DeBoe Construction Corp.

Transmittal

325 Westbury Avenue, Carle Place, NY 11514

No.: 49.04

Project: SAND1048 - RECONSTRUCTION OF SUNSET PARK NORTH SECTION OF THE BROOKLYN WATERFRONT GREENWAY

SUBMITTALS

TO: **NYCDDC**
354 36th Street, Space B332 (3rd Floor)
Brooklyn, NY 11232

From: **Brian Thoman**
325 Westbury Ave.
Carle Place, NY 11514

Attn: Camilla Asknes, Engineer-In-Charge

CREATED DATE: 4/23/2026

TRANSMIT:	VIA:	FOR:
Attached	Email	Approval

DESCRIPTION	ITEM	DATE	COPIES
SUBMITTAL - 326D-049.04 - Field Sampling Summary Report	8.01 S	4/23/2026	1

Comments

RECEIVED BY

DATE

Field Sampling Summary Report #2

FSSR Prepared for:

RECONSTRUCTION OF SUNSET PARK NORTH SECTION OF
THE BROOKLYN WATERFRONT GREENWAY
NYCDDC PROJECT ID SAND1048
BROOKLYN, NY
516-997-9615

New York City Department of Design and Construction
30-30 Thomson Ave, Queens, New York 11101

DeBoe Construction Corp.
425 Westbury Avenue
Carle Place, NY 11514

FSSR Prepared By:

American Environmental Solutions, Inc.
Brian Pendergast
42 West Avenue, Patchogue NY 11772
631-475-0020
pendyenveng@optonline.net

FSSR Preparation Date:

March 5, 2026

FSSR Revision Date:

April 23, 2026

Estimated Project Start and End Dates:

7/1/2025 — 12/1/2026

TABLE OF CONTENTS

Figures

Tables

Appendices

ACRONYMS

The following acronyms are referenced in this FSSR template. Any additional acronyms included in the FSSR should be added to the table below.

Item	Description
BWT	Bureau of Wastewater Treatment
CGAs	Combustible gas analyzers
COC	Chain-of-custody
ELAP	Environmental Laboratory Approval Program
EPH	Extractable Petroleum Hydrocarbons
FIDs	Flame ionizations detectors
FSP	Field Sampling Plan
FSSR	Field Sampling Summary Report
GWQS	Groundwater Quality Standards
HSC	Health and Safety Coordinator
HSGs	Hydrologic soil groups
HSO	Health and Safety Officer
HSP	Health and Safety Plan
IHASP	Investigation Health and Safety Plan
NYCDDC	New York City Department of Design and Construction
NYCDEP	New York City Department of Environmental Protection
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OEHS	NYCDDC Office of Environmental and Hazmat Services
OEGS	NYCDDC Office of Environmental and Geotechnical Services
OSHA	Occupational Safety and Health Administration
PCBs	Polychlorinated Biphenyls
PID	Photoionization detected
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
SCOs	Soil Cleanup Objectives
STARS	Spills Technology and Remediation Series
SVOCs	Semi-Volatile Organic Compounds
TAL	Target Analyte List
TAT	Turn-around time
TCLP	Toxicity Characteristic Leaching Procedure
USGS	U.S. Geological Survey
VOC	Volatile organic compound
WHP	Waste Handling Plan

REVISION LOG

Date	Revision Number	Description
03/05/2026	FSSR-00	Initial submission for NYCDDC for review
04/23/2026	FSSR-01	Revision #1 addressing comments received 4/21/26

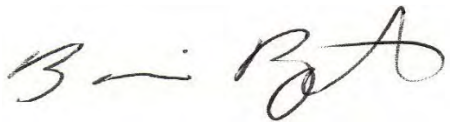
CERTIFICATION STATEMENT

FSSR Certification by American Environmental Solutions, Inc.

1. American Environmental Solutions, Inc. certifies that this document dated March 5, 2026 and all information included is true, accurate, and complete to the best of my professional knowledge and judgement; and

2. This FSSR has been prepared in accordance with all applicable statutes and regulations; and

3. This FSSR has been prepared in conformance with NYCDDC Specifications for Handling, Transportation, and Disposal of Potential and Identified Contaminated and Hazardous Materials (Item 8.01)



President, American Environmental Solutions, Inc. 3/5/2026

SECTION 1: INTRODUCTION AND PROJECT PURPOSE

1.1 General

At the request of DeBoe Construction Corp. (DeBoe) (of 325 Westbury Avenue, Carle Place, NY) American Environmental Solutions Inc., (AES) (42 West Avenue, Patchogue, NY) prepared this Field Sampling Summary Report (FSSR) for submittal to the New York City Department of Design and Construction (NYCDDC). This FSSR summarizes the in-situ soil sampling activities performed on October 16, 2025. The soil sampling activities were performed to delineate subsurface soils that will be generated during the Reconstruction of Sunset Park North Section of the Brooklyn Waterfront Greenway project that will require off-site disposal. The soil sampling activities were performed in accordance with the NYCDDC Accepted Delineation Field Sampling Plan (FSP) dated September 10, 2025 and NYCDDC Specification Section 8.01 C2.

1.2 Purpose

The scope of work to be performed by DeBoe includes roadway reconstruction, combined sewer reconstruction and water main replacement. Soil sampling was initially performed by Applemon Corporation in May 2025 in order to classify material to be excavated for off-site disposal or re-use on-site. Fourteen soil samples were collected from borings advanced in the work area. Two samples collected (SB8 and SB11) contained hazardous concentrations of lead, Soil excavated from these grid locations would be characterized as hazardous soil for disposal purposes. AES returned to the site on October 16, 2025 to delineate the extent of contamination at locations SB8 and SB11.

1.3 Project Organization and Responsibilities

Prior to the start of the project, the overall responsibilities for project personnel and subcontractors were established, including the chain of command. The personnel and organizations critical to the performance of the site investigation activities at the site and their respective responsibilities are listed below.

Environmental Project Director – The Project Director will be responsible for communicating with the Client and have overall responsibility for the project.	Brian Pendergast American Environmental Solutions, Inc. (AES) 42 West Avenue, Patchogue, NY 11772 631-475-0020 pendyenveng@optonline.net
Environmental Project Manager - The Project Manager will have the overall responsibility of coordinating the project and will be responsible for assigning qualified field personnel, including the project support staff such as the Health and Safety Coordinator.	Brian Pendergast American Environmental Solutions, Inc. (AES) 42 West Avenue, Patchogue, NY 11772 631-475-0020 pendyenveng@optonline.net

Health and Safety Coordinator - The Health and Safety Coordinator (HSC) is responsible for developing the IHASP and will be responsible for providing consultation on all health and safety related issues as they may arise in the field. Any alterations and/or modifications to the IHASP must be accepted by the HSC.	Brian Pendergast American Environmental Solutions, Inc. (AES) 42 West Avenue, Patchogue, NY 11772 631-475-0020 pendyenveng@optonline.net
Site Health and Safety Officer - The Site Health and Safety Officer (HSO) will be primarily responsible for the implementation of the IHASP at the project site. The HSO will also assure that project personnel are aware of the provisions of the IHASP and are instructed in the safe work practices and emergency procedures; be present at the site at all times when the project work is going on unless the project task does not necessitate his presence; and communicate with the Project Manager and HSC for any changes and/or modifications required in the IHASP. The HSO has the responsibility and the authority to shut down unsafe operations as and when they arise.	Brian Pendergast American Environmental Solutions, Inc. (AES) 42 West Avenue, Patchogue, NY 11772 631-475-0020 pendyenveng@optonline.net
Field Staff – List Field Staff (geologists, technicians, etc. separately.	Brian Pendergast American Environmental Solutions, Inc. (AES) 42 West Avenue, Patchogue, NY 11772 631-475-0020 pendyenveng@optonline.net
Soil Boring Subcontractor – If in-situ soil borings are to be installed, the boring contractor and contact shall be identified.	Aquifer Drilling & Testing 75 East 2nd Street Mineola, NY 11501 516-616-6026, ext. 2859 jdiamond@cascade-env.com
Analytical Laboratory – The analytical laboratory to be utilized for soil and/or groundwater analysis	Phoenix Environmental Laboratories, Inc. 587 E. Middel Turnpike, PO Box 370 Manchester, CT 06045-0370 860-645-1102 bobbi@phoenixlabs.com

1.4 Site History

According to the Phase II Subsurface Corridor Investigation Report dated October 15, 2019 prepared by LiRo Engineers, Inc. on behalf of the NYCDDC, the corridors were found to be underlain with historic fill consisting of red brown to brown black fine to coarse sand with some gravel and silt at depths ranging from 0 to 9 feet below grade surface (ftbg). Man-made materials such as brick and re-worked gravel, sand, and silt were encountered between 1 and 2 ftbg. According to laboratory analysis of the report, results showed evidence of petroleum impacted soils within portions of the corridor, including one Polycyclic Aromatic Hydrocarbons (PAHs), benzo(a)pyrene, which was detected at levels exceeding Part 375-6.8 (b) Restricted Use-Commercial (Track 2) Soil Cleanup Objectives (SCO). Other PAHs were detected at concentrations below Part 375-6.8 (b) Restricted Use-Commercial (Track 2) SCO. Photoionization Detector (PID) readings of 5.0 ppm were detected along with slight petroleum odors. Volatile Organic Compounds (VOCs) and Polychlorinated Biphenyls (PCBs) were detected at levels below Part 375-6.8 (b) Restricted Use-Commercial (Track 2) Soil Cleanup Objectives (SCO). Multiple Toxicity Characteristic Leaching Procedure (TCLP) Resource Conservation and Recovery Act (RCRA) metals were detected below their corresponding 6 NYCRR Part 371 and RCRA standards. Total Petroleum Hydrocarbon Diesel Range Organics/Gasoline Range Organics (TPHC DRO/GRO) was detected at concentrations ranging from 0.017 milligrams per kilograms (mg/kg) to 0.036 mg/kg. Soil samples collected from the site did not exhibit evidence of the hazardous waste characteristic for toxicity, reactivity, ignitability, and corrosivity.

Applemon Corporation performed soil sampling in May 2025 in order to characterize soils to be excavated from the work area. Fourteen soil samples were collected from borings advanced in the work area. Based on the field screening and laboratory analysis of the soil samples collected from the site, the excavated soils may be reused at the site or disposed of at a disposal location as clean fill except for soils in grids SB-7, SB-9, SB-10, and SB-13 which are classified as contaminated and grids SB-8 and SB-11 which are classified as hazardous waste.

SECTION 2: SCOPE OF WORK

2.1 Field Sampling Scope of Work

Delineation soil sampling was performed in the vicinity of hazardous locations SB8 and SB11 in order to determine the extent of lead contamination at each location. Eight soil borings were installed to depths of 10 ftbg using a Geoprobe drill rig to the north, south, east and west at each hazardous location (SB-8 and SB-11). Delineation borings were spaced 5 and 10 feet from the original boring location. Soil samples were collected from the borings and samples from 5 feet away were analyzed for total lead and TCLP lead by Phoenix Environmental Laboratories of Manchester, Connecticut to delineate the limits of hazardous material. The samples collected from 10 feet away were submitted to the lab and placed on hold and only analyzed if 5 feet samples were found to contain hazardous concentrations of lead.

2.2 Investigation Health and Safety Plan

The subject field sampling activities summarized in this report were performed in accordance with the requirements of the NYCDDC accepted Investigation Health and Safety Plan (IHASP) dated February 13, 2025.

SECTION 3: PHYSICAL SETTING

3.1 Project Area and Site Location Description

Project Name and Address

Project/ Site Name: Reconstruction of Sunset Park North Section of Brooklyn Waterfront Greenway

Project Street/ Location: 2nd Avenue between 39th Street and 29th Street, 29th Street between 2nd Avenue and 3rd Avenue, 36th Street from 2nd Avenue to approximately 209 feet southeast of 2nd Avenue

City: Brooklyn

State: New York

Zip Code: 11232

Borough: Brooklyn

Block(s) and Lot(s): Various

DEC Region: 2

Business Days and hours for the project: Monday – Friday, 7 am – 6 pm

Project Latitude/ Longitude

Latitude: 40.39'19 ° N
(Decimal degrees)

Longitude: -74.00'37 ° W
(Decimal degrees)

Latitude/longitude data source:

☒ MAP ☐ GPS ☐ OTHER (Please specify):

Horizontal Reference Datum: ☐ NAD 27 ☐ NAD 83 ☒ WGS 85

History of Construction Site *(check all that apply)*:

☐ Single-Family Residential ☐ Multi-Family Residential ☐ Commercial ☐ Industrial
☐ Institutional ☒ Highway or Road ☐ Utility ☐ Other:

General Site Description

The work sites are roadways and street-right-of ways in the Sunset Park neighborhood in Brooklyn. The scope of work to be performed by DeBoe Construction includes roadway reconstruction and replacement an installation of combined sewers and water mains. The site will be excavated to depths from two (2) to eleven (11) feet below grade surface for these infrastructure improvements.

Size of Construction Site

Area of Property or Corridor Length	3,500 feet

A Project Location Map is included as **Figure 1**. An Aerial View Map is included as **Figure 2**.

Site Limitations/Assessment

There are no limitations such as watershed impairments or state or federal wetlands that will affect this project. The only permits that apply to this project are street opening permits.

Known Soil Characteristics

According to the Phase II Subsurface Corridor Investigation Report dated October 15, 2019 (See Appendix A), the subsurface soils consisted primarily of red brown to brown black fine to coarse sand with some gravel and silt from grade to approximately 9.0 ftbg. Silt with some sand and gravel was also noted within some soil samples from 9.0 to 10.0 ftbg. Man-made materials (brick) and reworked gravel, sand, and silt which is indicative of urban fill was encountered within all borings from 1.0 to 2.0 ftbg.

Known Groundwater Characteristics

According to the Phase II Subsurface Corridor Investigation Report dated October 15, 2019 (Appendix A) groundwater was encountered between 8.0 and 10 ftbg. The nearest surface water body to the Corridor is Gowanus Bay which is located approximately 160 feet north of the Corridor. Based on the location and proximity of the Gowanus Bay, groundwater is anticipated to flow towards the northwest. Groundwater can also be influenced by seasonal fluctuations in precipitation, local variations in geology, topography, tidal variations in Gowanus Bay, underground anthropogenic structures and/or local dewatering operations.

LOCATION PLAN
N.T.S.

COMMUNITY BOARD NO. 7

(Not to Scale)

Department of Design and Construction	
PROJECT LOCATION MAP	
CAPITAL PROJECT SAND1048	**Reconstruction of Sunset Park North Section of Brooklyn Waterfront Greenway**
American Environmental Solutions, Inc.	**FIGURE 1**

3.2 Topography and Drainage

The topography of the project area consists of flat surfaces and gentle slopes associated with small hills flattened during the urbanization or regrading of the area. The site elevations range from approximately 5 to 12 feet above mean sea level. According to the Phase II Subsurface Corridor Investigation Report dated October 15, 2019, the elevation of the Corridor ranges from approximately 5.0 above mean sea level (amsl) at the most western portion of the Corridor to approximately 10 feet amsl at the most eastern and southern portions. The topography of the immediate Corridor area is gently sloping to the northwest.

SECTION 4: SOIL QUALITY INVESTIGATION (IF APPLICABLE)

(Check one that applies):
☒ Soil quality investigation was performed
☐ Not Applicable

In-Situ Soil Sampling (Sampling from soil borings)

The purpose of the in-situ soil sampling activities was to delineate hazardous contaminated soils in the vicinity of SB-8 and SB-11. According to findings of prior investigation activities, these two boring locations were found to contain hazardous levels of lead. Delineation sampling was performed by AES in order to determine the limits of hazardous lead soil at these two locations.

All waste characterization soil sampling was performed in accordance with NYSDEC sampling guidelines and protocols and NYCDDC Specification Item 8.01 C2.1.

Sixteen delineation soil samples were collected from borings advanced to ten feet below grade. Sampling locations are shown on **Figure 3**. Nine of the sixteen samples were analyzed for total lead and TCLP lead. Delineation borings were spaced approximately 5 and 10 feet away from the original hazardous locations, SB8 and SB11. Soil samples were collected from the borings and samples from 5 feet away were analyzed for total lead and TCLP lead. The samples collected from 10 feet away were submitted to the lab and placed on hold and only were analyzed if 5' samples were found to contain hazardous concentrations of lead. Boring locations as proposed in the Delineation Field Sampling Plan (FSP) had to be relocated on sampling dates due to utility interference in the work areas.

Each composite sample was also analyzed for the remaining analytes listed below:

- Total Lead (USEPA Method 6010D)
- Toxicity Characteristic Leaching Procedure (TCLP) Lead

A summary of the sample analyses performed (including location, frequency, and analytical methods) is included as **Table 1**.

All sample containers were marked and identified with legible sample labels including project name, sample location, sample number, date and time of sampling, preservation method, and other information useful in determining the sample characteristics. Chain-of-custody (COC) procedures were followed from laboratory issuance of the sample containers through laboratory receipt of the samples.

All sampling procedures and observations were recorded in a bound logbook. The field book will be turned over to NYCDDC in good condition upon completion of the work. A legible copy of the field book contents is included as **Appendix B** for reference. The following information was recorded in the field book:

- Sample identification number
- Sample location
- Field observations

- Sample type
- Required analyses
- Date/time of sample collection
- Collector's name
- Sampling procedures and equipment utilized
- Date sent to laboratory and name of laboratory

Only dedicated sampling equipment was utilized to collect the samples. All sampling equipment was decontaminated before being brought to the site and properly disposed of after use.

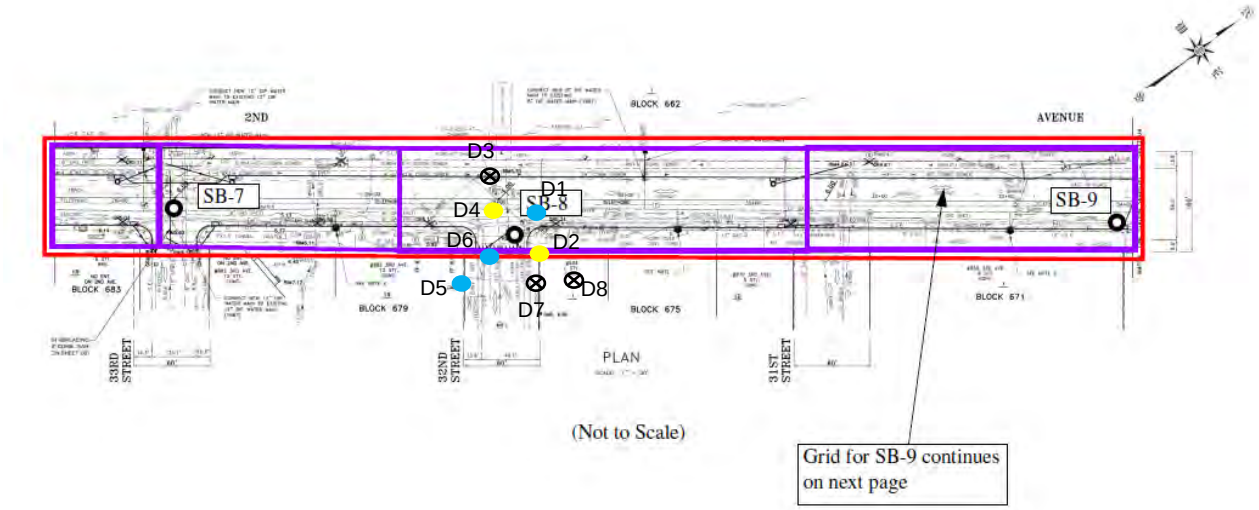
NYCDDC PROJECT NO. SAND1048	
AERIAL VIEW MAP	
RECONSTRUCTION OF SUNSET PARK NORTH SECTION OF THE BROOKLYN WATERFRONT GREENWAY, BROOKLYN NY	
DATE: 11/15/24	FIGURE 2
Map provided by USDA NRCS Custom Soil Resource Report	

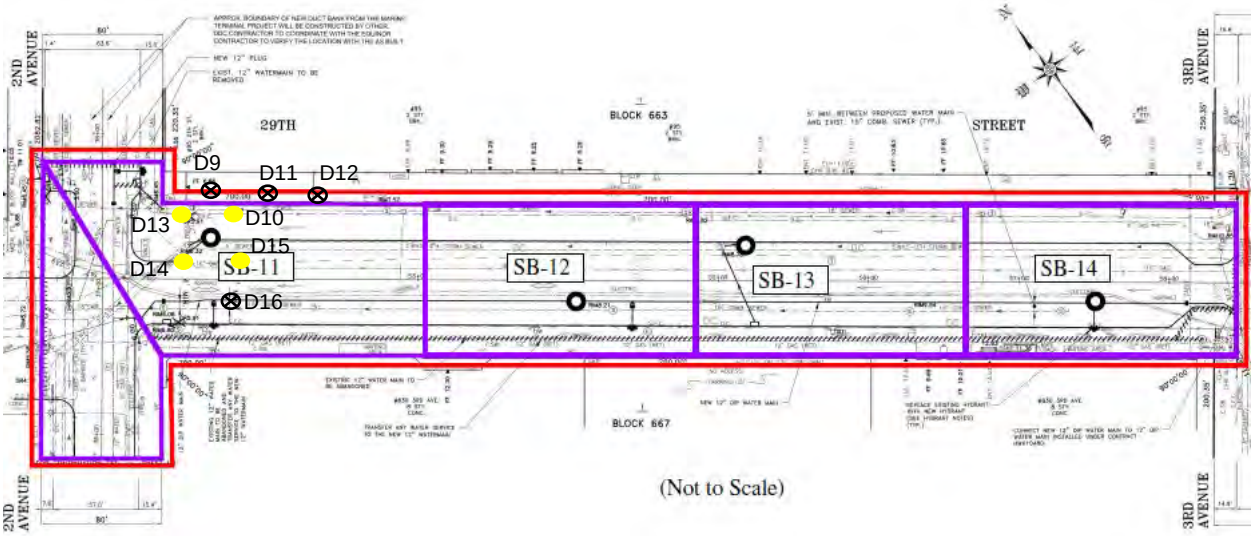
Legend

Approximate Corridor Area

SECTION 5: GROUNDWATER QUALITY INVESTIGATION (IF APPLICABLE)

(Check one that applies):
☐ Groundwater quality investigation was performed
☒ Not Applicable





- Soil boring location, May 2025
- Haz lead delineation sample, not analyzed
- Haz lead sample location
- Non-Haz sample location

Delineation sampling locations proposed in the FSP had to be relocated due to utility interference.

NYC DDC Department of Design and Construction	
SOIL SAMPLE LOCATIONS	
CAPITAL PROJECT SAND1048	RECONSTRUCTION OF SUNSET PARK, NORTH SECTION OF BROOKLYN WATERFRONT GREENWAY
American Environmental Solutions, Inc.	**FIGURE 3**

SECTION 6: LABORATORY ANALYSIS

6.1 Lab Qualifications/Certifications

Soil and/or groundwater samples were analyzed by Phoenix Environmental Laboratories, Inc..

The laboratory's contact information is as follows:

Laboratory Name: Phoenix Environmental Laboratories, Inc.

Laboratory Address: 587 E. Middle Turnpike, PO Box 370, Manchester, CT 06045-0370

Laboratory Contact Name: Bobbi Aloisa

Laboratory Contact Phone Number: 860-645-1102

As required by contract specifications, Phoenix Environmental Laboratories, Inc. is a NYSDOH ELAP certified laboratory (NY ELAP No. 11301). Copies of Phoenix Environmental Laboratories, Inc. laboratory certifications are included in **Appendix C** for reference.

Phoenix Environmental Laboratory, Inc. provided analytical results in a 7 day turn-around time (TAT).

Final analytical data reports for the soil samples collected are included in **Appendix D**.

SECTION 7: RESULTS AND CONCLUSIONS

7.1 Soil Sample Results (if applicable)

(Check one that applies):
☒ Soil sample results collected
☐ Not Applicable

The soil sampled was observed to be brown sandy soil, brown clay and black silty clay.

Soil analysis indicated total lead and TCLP lead were detected in all nine samples analyzed. TCLP lead was detected in the SB11 delineation locations (D10, D13, D14, D15) within acceptable USEPA ranges for hazardous waste characteristics. Three delineation samples adjacent to SB8 (D1, D6, D5) contained TCLP lead in concentrations exceeding USEPA toxicity criteria of 5 mg/L. These locations surrounding SB8 would be classified as hazardous lead material.

The locations of each soil sample collected are shown on **Figure 3**. Soil sample analytical results are summarized in **Table 2**. Laboratory soil analytical reports are included in **Appendix E.** Regulatory cleanup criteria tables are included in **Appendix F**.

7.2 Groundwater Sample Results (if applicable)

(Check one that applies):
☐ Groundwater sample results collected
☒ Not Applicable

7.3 Conclusions

Based on the delineation analytical data received, the soil sampled at locations D10, D15, D13 and D14 adjacent to SB11 is non-hazardous based on comparison of TCLP lead analysis to 40 CFR Section 261 criteria of 5 mg/L. The hazardous contaminated soil at location SB11 is localized to the area within these boring locations.

Three delineation samples (D1, D5, D6) collected adjacent to SB8 were found to contain hazardous concentrations of lead in exceedance of 40 CFR Section 261 criteria of 5 mg/L. Soil to be excavated from within this area must be handled as hazardous soil and should be transported and disposed off-site in accordance with the project specifications, the accepted Material Handling Plan (MHP) and all federal, state and local regulations.

SECTION 8: REPORT CERTIFICATION

Certification Statement

Report Certification by American Environmental Solutions, Inc.

1. American Environmental Solutions, Inc. certifies that this FSSR dated March 5, 2026 and all information included is true, accurate, and complete to the best of my professional knowledge and judgement; and

2. This FSSR has been prepared in accordance with all applicable statutes and regulations; and

3. This FSSR has been prepared in conformance with NYCDDC Specifications for Handling, Transportation, and Disposal of Potential and Identified Contaminated and Hazardous Materials (Item 8.01)

Brian Pendergast, President 3/5/26

FIGURES

TABLE 1
Sampling Summary
Reconstruction of Sunset Park North Section of Brooklyn Waterfront Greenway
NYCDDC Project ID SAND1048

AOC	Boring ID	Location	Sample ID	Sample Depth (ft)	Parameter (Methodology)
SB8	D1	2nd Avenue & 32nd Street	SB8-D1	2-10 ftbg	Total Lead TCLP Lead
SB8	D2		SB8-D2		
SB8	D4		SB8-D4		
SB8	D6		SB8-D6		
SB8	D5		SB8-D5		
SB11	D10	29th Street, just east of the intersection with 2nd Avenue	SB11-D10	2-10 ftbg	
SB11	D13		SB11-D13		
SB11	D14		SB11-D14		
SB11	D15		SB11-D15		

TABLE 2
SOIL ANALYTICAL RESULTS - RCRA TCLP CRITERIA
RECONSTRUCTION OF SUNSET PARK NORTH SECTION OF THE BROOKLYN WATERFRONT GREENWAY
NYCDDC PROJECT ID SAND1048

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
(860) 645-1102

Project Id : SAND1048-SUNSET PARK

PO # : 0987

	CAS	Units	EPA Toxicity Characteristics																	
Lab Sample Id				CU54188		CU54189		CU54190		CU54191		CU54192		CU54193		CU54194		CU54195		CU54196	
Collection Date				10/16/2025		10/16/2025		10/16/2025		10/16/2025		10/16/2025		10/16/2025		10/16/2025		10/16/2025		10/16/2025	
Client Id				SB8-D1		SB8-D2		SB8-D4		SB8-D6		SB11-D10		SB11-D13		SB11-D14		SB11-D15		SB8-D5	
Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
				Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Miscellaneous/Inorganics																					
Percent Solid	PHNX - PCTSOLID	%		79		73		82		70		81		87		77		69		67	
Metals, Total																					
Lead	7439-92-1	mg/Kg		191	0.37	353	0.48	95.5	0.38	2,450	0.43	875	0.39	1.32	0.37	335	0.40	608	0.47	1,610	0.45
Metals, TCLP																					
TCLP Lead	7439-92-1	mg/L	5	14.6	0.10	0.13	0.10	0.12	0.10	8.81	0.10	4.23	0.10	< 0.10	0.10	0.86	0.10	0.33	0.10	30.4	0.10

Result Detected

RL Exceeds Criteria

Result Exceeds Criteria

Appendix A

Historic Site Investigation Documents

- Final -

Phase II Subsurface Corridor Investigation Report

For

Sunset Park North Section of the Brooklyn Waterfront Greenway

Brooklyn, New York

DDC PROJECT NO. SAND1048

WORK ORDER NO. 15626-LIRO-3-R-15333

CONTRACT REGISTRATION NO. 20181405131

Prepared for:

NYC DDC Department of Design and Construction

Office of Environmental and Geotechnical Services

30-30 Thomson Avenue, Third Floor

Long Island City, New York 11101

Prepared by:

LiRo Engineers, Inc.

703 Lorimer Street

Brooklyn, New York 11211

PROJECT NO. 17-155-0265

October 15, 2019

TABLE OF CONTENTS

EXECUTIVE SUMMARY

On behalf of the New York City Department of Design and Construction (DDC), LiRo Engineers, Inc. (LiRo) conducted a Phase II Subsurface Corridor Investigation (SCI) of the SAND1048 Corridor located mainly along Second Avenue between 29th Street and 39th Street in the Sunset Park neighborhood of Brooklyn, New York (hereinafter referred to as the "Corridor") to determine if the Corridor's environmental condition might impact proposed construction activities. The proposed construction activities for the Corridor consists of roadway reconstruction, drainage improvements, watermain replacements and the installation of landscaping.

The Corridor is approximately 3,419 - foot long and consists of the following street segments.

Street Segment	Length (feet)
Second Avenue from 29th Street to 39th Street	2,430
29th Street between Second Avenue and Third Avenue	780
36th Street from Second Ave to 209 feet southeast of Second Avenue	209

The proposed depth of excavation for this DDC infrastructure project is estimated to range from 5.0 to 10.0 feet below grade (ftbg), and mostly at 6.0 ftbg. Based on the review of available information provided by the DDC and discussions with the DDC Project Manager, LiRo proposed the advancement of seven soil borings and one temporary well point (TWP) along the Corridor to characterize soil and groundwater (if observed) that may be encountered during construction and to assess the presence of subsurface contamination that might impact proposed construction activities.

The Phase II SCI was completed on August 19, 2019 and consisted of the following components:

- The advancement of seven soil borings to a terminal depth of approximately 10.0 ftbg and the field screening of soil samples, including photo-ionization detector (PID) readings and visual and olfactory indicators of contamination (staining, odors);

- The collection of seven grab soil samples which were analyzed for United States Environmental Protection Agency (USEPA) Target Compound List (TCL) volatile organic compounds (VOCs);

- The collection of seven composite soil samples which were analyzed for: Polycyclic Aromatic Hydrocarbons (PAHs); Polychlorinated Biphenyls (PCBs); Total Petroleum Hydrocarbon Diesel Range Organics/Gasoline Range Organics (TPHC DRO/GRO); Resource Conservation and Recovery Act (RCRA) Characteristics; and, Toxicity Characteristic Leaching Procedure (TCLP) RCRA Metals;

- Groundwater was encountered within the Corridor; however, soil in the saturated zone consisted of tight silts, which did not produce sufficient water to collect a sample. Therefore, no TWPs were installed and no groundwater samples were collected; and,

- The preparation of this report, which includes tables summarizing the laboratory analytical results and figures depicting boring locations, significant site features and, if applicable, contamination occurrence and distribution.

In order to evaluate the subsurface soil, laboratory analytical results were compared with the regulatory standards identified in: (1) New York State Department of Environmental Conservation (NYSDEC) Subpart 375-6: Remedial Program Restricted Use Commercial (Track 2) Soil Cleanup Objectives (SCOs); and/or, (2) Toxicity Characteristic Regulatory Levels for Hazardous Waste published in RCRA and Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 371.

Based on the evaluation of the field screening data and the laboratory analytical results, and a comparison to applicable regulatory standards, the following findings, conclusions, and recommendations are presented:

Findings

- The subsurface soils encountered during this Phase II SCI consisted predominantly of red brown to brown black fine to coarse sand with some gravel and silt from grade to approximately 9.0 ftbg. Silt with some sand and gravel was also noted within SB-01, SB-02, SB-03, and SB-04 from 9.0 to 10.0 ftbg. Man-made materials (brick) and re-worked gravel, sand, and silt, which is indicative of urban fill, was encountered within all borings from 1.0 to 2.0 ftbg. Groundwater was encountered between 8.0 and 10.0 ftbg. Bedrock was not encountered during the Phase II SCI.

- Field screening (i.e., PID readings, visual, and olfactory observations) did not identify impacted soils in borings SB-01, SB-02, SB-03, SB-06, and SB-07; however, PID readings of 5.0 parts per million (ppm) were detected within SB-04 and SB-05 along with slight petroleum odors.

- VOCs were detected in four of the seven grab samples collected. Acetone and/or Methyl Ethyl Ketone/2-Butanone were detected at concentrations below the Part 375 Restricted Use – Commercial SCOs in samples SB-03 - 8.0 - 8.5, SB-04 - 7.5 - 8.0, SB-05 - 9.2 - 9.7, and/or SB-06 - 7.5 - 8.0. Acetone is a common laboratory cross contaminant and is most likely not representative of subsurface conditions. Carbon disulfide, cyclohexane, and methylcyclohexane were also detected; however, there are no corresponding Part 375 Restricted Use – Commercial SCOs for these parameters.

- PAHs were detected in all seven composite samples collected. Benzo(a)pyrene was detected within SB-03 - COMP, SB-06 - COMP, and SB-07 - COMP at concentrations exceeding the corresponding Part 375 Restricted Use – Commercial SCO. Acenaphthene, acenaphthylene, anthracene, benzo(a) anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene were also detected within one of more of the seven composite samples at concentrations below their corresponding Part 375 Restricted Use – Commercial SCOs. The detected PAHs may be attributed to: (a) residuals from isolated releases in the area of the Corridor; and/or, (b) the presence of fill material placed at the Corridor.

- PCBs were detected in four of the seven composite samples collected. Aroclor 1254 and/or Aroclor 1260 were detected at concentrations below the Part 375 Restricted Use – Commercial SCOs in SB-01 - COMPRE, SB-02 - COMPRE, SB-03 - COMPRE, and SB-07 - COMPRE. (Note that "RE" is added to the end of the sample identification by the laboratory in cases where the laboratory needs to re-analyze the samples because the initial analysis did not conform to analytical method quality control criteria).

- TCLP RCRA metals were detected in all seven composite samples collected. Arsenic, barium, cadmium, chromium, lead, and/or selenium were detected at concentrations below their corresponding 6 NYCRR Part 371 and RCRA standards. Based on their consistency, most of the detected concentrations are attributed to background levels. However, the detected concentrations for arsenic may be attributed to contaminants in fill material placed throughout the Corridor.

- Ignitability (flash point), reactivity (cyanide and sulfide), and corrosivity (pH) were within the acceptable RCRA ranges. TPHC-DRO was detected in all seven composite samples at concentrations ranging from approximately 27.2 milligrams per kilograms (mg/kg) within SB-01 - COMP to 195 mg/kg within SB-02 - COMP. TPHC-GRO was detected in five of the seven composite samples at concentrations ranging from 0.017 mg/kg within SB-04 - COMP to 0.036 mg/kg within SB-02 - COMP. There are no regulatory standards for TPHC-DRO and TPHC-GRO. Analytical results will need to be compared to levels acceptable by the chosen receiving facility to determine appropriate waste characterization prior to off-site disposal.

Conclusions

- Field screening (i.e., PID readings, visual, and olfactory observations) generally did not identify impacted soils within the Corridor in borings SB-01, SB-02, SB-03, SB-06, and SB-07; however, PID readings of 5.0 ppm were detected within SB-04 and SB-05 along with slight petroleum odors;

- Laboratory analytical results identified petroleum-impacted soils within portions of the Corridor. The presence of elevated concentrations of petroleum components (i.e., PAHs and DRO/GRO) in subsurface soils in the Corridor is attributed primarily to: (a) residuals from releases of petroleum products in the vicinity of the Corridor; and, (b) contaminants in fill material placed on the Corridor;

- The subsurface soil samples collected from the Corridor did not exhibit hazardous waste characteristics; and,

- Groundwater was encountered within the Corridor; however, soil in the saturated zone consisted of tight silts and did not produce sufficient water to collect a sample. Therefore, no TWPs were installed and no groundwater samples were collected.

Recommendations

- The Contract documents should identify provisions and a contingency for managing, handling, transporting and disposing of non-hazardous, contaminated soil. The Contractor should submit a Material Handling Plan to identify the specific protocols and procedures that will be employed to manage potentially contaminated waste, if encountered, during construction in accordance with applicable regulations;

- Due to the presence of PAHs and DRO/GRO in the investigated sites, especially if contaminated or hazardous soil is encountered, a Community Air Monitoring Plan (CAMP) is required to minimize the creation and dispersion of fugitive airborne dust. The Contractor may implement dust control measures to minimize potential airborne contaminants released as a direct result of construction activities. A CAMP shall be developed in accordance with NYSDEC DER-10 Regulations. The CAMP requires real-time monitoring for VOCs and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP

is intended to provide a measure of protection for the downwind community from potential airborne contaminant releases as a direct result of investigative and remedial work activities;

- Should dewatering become necessary during construction activities within the Corridor, the Contractor will be required to obtain NYCDEP sewer discharge permit. Additional sampling and laboratory analysis may be required to satisfy NYCDEP sewer discharge permit requirements prior to discharge into storm sewers;

- If discharge into storm sewers is required during dewatering, it may be done under the appropriate NYSDEC State Pollutant Discharge Elimination System (SPDES) permit. Additional sampling and laboratory analysis may be required to satisfy NYSDEC requirements prior to discharge into storm sewers; and,

- Before beginning any excavation activity, the Contractor should submit a Corridor-specific health and safety plan (HASP) that will meet the requirements set forth by the Occupational, Safety and Health Administration (OSHA), the New York State Department of Health (NYSDOH) and any other applicable regulations. The HASP should identify the possible locations and risks associated with the potential contaminants that may be encountered, and the administrative and engineering controls that will be utilized to mitigate concerns (i.e., dust control procedures for PAHs and DRO/GRO).

1.0 INTRODUCTION

On behalf of the New York City Department of Design and Construction (DDC), LiRo Engineers, Inc. (LiRo) conducted a Phase II Subsurface Corridor Investigation (Phase II SCI) of the SAND1048 Corridor located mainly along Second Avenue between 29th Street and 39th Street in the Sunset Park neighborhood of Brooklyn, New York (hereinafter referred to as the "Corridor") to determine if the Corridor's environmental condition might impact proposed construction activities. The proposed construction activities for the Corridor consists of water main work and combined sewers in the Brooklyn Waterfront Greenway.

The Corridor is approximately 3,419 - foot long and consists of the following street segments.

Street Segment	Length (feet)
Second Avenue from 29th Street to 39th Street	2,430
29th Street between Second Avenue and Third Avenue	780
36th Street from Second Ave to 209 feet southeast of Second Avenue	209

1.1 Scope of Work

The Phase II SCI consisted of a field investigation, laboratory analyses, and the preparation of this report, which includes tables summarizing the laboratory analytical results and figures depicting boring locations, significant site features and, if applicable, contamination occurrences and distribution. Drilling activities for the field investigation were performed by AARCO Environmental Services Corporation (AARCO) of Lindenhurst, New York. Oversight of drilling activities was performed by Scott Swanson of LiRo. Laboratory analyses were provided by Chemtech of Mountainside, New Jersey, a NYS Department of Health (NYSDOH) approved laboratory (No. 11376). Field derived Quality Assurance/Quality Control (QA/QC) samples (i.e., field blanks, trip blanks, duplicates) were not collected for this project. The field investigation was conducted on August 19, 2019 and consisted of the following components.

- The advancement of seven borings (SB-01 through SB-07) to terminal depths of 10.0 ftbg.

- The borings were advanced using a GeoProbe direct push drill rig. Prior to direct push advancement, borings were cleared to a depth of 6.0 feet using a hand auger. Soil samples were collected using 5.0 - foot long, 2.0 - inch diameter Macro Core stainless steel samplers equipped with polyvinyl chloride (PVC) liners. In addition, a Health and Safety Plan was prepared by AARCO prior to commencing field work.

- Field screening, classification, and identification of soils was conducted from the ground surface to the bottom of each boring. Soil samples were visually classified in the field using the Unified Soil Classification System (USCS). Field screening consisted of visual and olfactory indicators of impacts as well as screening with a photoionization detector (PID).

- The collection of one composite and one grab sample from each of the seven soil boring locations (SB-01 through SB-07). The composite samples were comprised of soil from the entire boring column. The grab samples were collected from the 6.0 - inch interval exhibiting evidence of petroleum impacts (highest PID reading) (i.e., SB-04 and SB-05), from the bottom 6.0 - inch interval

in the boring (i.e., SB-02 and SB-07), or from the 6.0 - inch interval above the groundwater table (i.e., SB-01, SB-03, and SB-06).

- Laboratory analysis of the composite samples for: (1) Polycyclic Aromatic Hydrocarbons (PAHs) via United States Environmental Protection Agency (USEPA) Method 8270D; (2) Polychlorinated Biphenyls (PCBs) via USEPA Method 3550B/8082; (3) Total Petroleum Hydrocarbon Diesel Range Organics/Gasoline Range Organics (TPHC DRO/GRO) via USEPA Method 8015B; (4) Resource Conservation and Recovery Act (RCRA) Characteristics via USEPA SW-846; and, (5) Toxicity Characteristic Leaching Procedure (TCLP) RCRA Metals via USEPA SW-846.

- Laboratory analysis of the grab samples for TCL volatile organic compounds (VOCs) by USEPA Method 8260C.

- Groundwater was encountered within the Corridor; however, soil in the saturated zone consisted of tight silts and did not produce sufficient water to collect a sample. Therefore, no TWPs were installed and no groundwater samples were collected.

2.0 CORRIDOR INFORMATION

2.1 Corridor Location, Description and Use

The Corridor is approximately 3,419 - foot long and is located in the Sunset Park section of the Borough of Brooklyn, New York. The Corridor consists of Second Avenue between 29th and 39th Streets, 29th Street between Second Avenue and Third Avenue, and 36th Street from Second Avenue to approximately 209 feet southeast. The Corridor is developed with paved roadways and existing infrastructure systems.

Property usage adjoining the Corridor during the inspection consists primarily of commercial warehouses (i.e., Liberty View Industrial Plaza, Maximum Self Storage, Industrial City Warehousing and Office Complex, restaurants, and Costco), the MDC Federal Prison, and residences. Based on observations made during the field work, no properties of potential environmental concern were noted. A map of the Corridor area is presented as Figure 2.

2.2 Description of Surrounding Properties

Property usage surrounding the Corridor is primarily comprised of various commercial and residential properties. Properties of potential environmental concern noted in the area, but off of the Corridor, include the NYC Transit Track Yard, a Shell Gas Station, a Gulf Gas Station, A1 Truck Repair, and a large post office.

2.3 Corridor and Regional Topographic Setting

Based on a review of the *United States Geological Survey (USGS.) 7.5 - Minute Quadrangle Map, Jersey City, NJ, dated 2018*, the elevation of the Corridor ranges from approximately 5.0 feet above mean sea level (amsl) at the most western portion of the Corridor to approximately 10.0 feet amsl at the most eastern and southern portions. The topography of the immediate Corridor area is gently sloping to the northwest. A copy of the USGS National Map is presented in Figure 1.

2.4 Corridor and Regional Geology

Based on the *Geologic Map of New York State (Lower Hudson Sheet dated 1970)*, the area is underlain by Glacial and Alluvial Deposits. Based on the *Surficial Geologic Map of New York (Lower Hudson Sheet dated 1989)*, the area is underlain by till.

The Corridor is located within the Atlantic Coastal Plain Physiographic Province which is characterized by flat to gently undulating plains of unconsolidated sedimentary deposits. The Corridor is located within the southern portion of the Wisconsin glaciation of the New York/New England region.

The subsurface soils encountered during this Phase II SCI consisted predominantly of red brown to brown black fine to coarse sand with some gravel and silt from grade to approximately 9.0 ftbg. Silt with some sand and gravel was also noted within SB-01, SB-02, SB-03, and SB-04 from 9.0 to 10.0 ftbg. Man-made materials (brick) and re-worked gravel, sand, and silt, which is indicative of urban fill, was encountered within all borings from 1.0 to 2.0 ftbg. Groundwater was encountered between 8.0 and 10.0 ftbg. Bedrock was not encountered during the Phase II SCI.

Based on the information supplied by the National Wetland Inventory and NYSDEC Wetland Inventory, the Corridor does not fall within a state or national wetland area. The nearest national wetland is located approximately 160 feet north of the Corridor and is identified as E1UBLx (Estuarine Subtidal Unconsolidated Bottom Subtidal Excavated). The closest NYSDEC regulated mapped freshwater wetland is located over 4.0 miles southwest of the Corridor.

Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) were accessed from the FEMA website. Map panel (Panel No. 3604970192FF, effective date 9/5/07) shows that the majority of the Corridor is located in "Flood Zone AE (EL 10')". Portions of the Corridor are also located in "Flood Zone X, an area of minimal flood hazard" and "Zone X, 0.2 percent annual chance flood hazard."

2.5 Corridor and Regional Hydrogeology

The first unconfined aquifer encountered is the upper glacial aquifer. According to Groundwater Resources of Kings and Queens Counties, Long Island, New York, dated 1999, groundwater was anticipated to be present at a depth of approximately 5.0 ftbg; however during the Phase II SCI groundwater was encountered between 8.0 and 10.0 ftbg at all seven borings. The nearest surface water body to the Corridor is Gowanus Bay which is located approximately 160 feet north of the Corridor. Based on the location and proximity of Gowanus Bay, groundwater is anticipated to flow towards the northwest. Groundwater can also be influenced by seasonal fluctuations in precipitation, local variations in geology, topography, tidal variations in Gowanus Bay, underground anthropogenic structures, and/or local dewatering operations.

3.0 CORRIDOR EVALUATION

LiRo provided oversight for the advancement of seven soil borings and the collection of soil samples during the field investigation at the designated areas of the planned construction. The soil samples from the borings were transferred into laboratory supplied sample jars, properly labeled, and stored in a cooler with ice to preserve the samples at 4° Celsius prior to and during shipment. A chain-of-custody was prepared prior to sample shipment. A summary of the field observations, including the location of the sites and the details of the soil borings, is provided in Table 1.

3.1 Soil Quality Investigation

Seven borings (SB-01 through SB-07) were advanced to a terminal depth of 10.0 ftbg using a GeoProbe direct push drill rig. Prior to direct push advancement, borings were cleared to a depth of 6.0 ftbg using a hand auger. Soil samples were collected using 5.0 - foot long, 2.0 - inch diameter Macro Core stainless steel samplers equipped with polyvinyl chloride (PVC) liners. Soil boring locations are shown on Figure 2. The designations and sampling intervals for the samples that were submitted to the laboratory are included in Table 1. Maps depicting each boring location are included in Appendix A. Boring logs are provided in Appendix B. The locations of each boring are described below:

- **SB-01** – Advanced in the sidewalk along the east side of Second Avenue, approximately 32 feet northeast of the 39th Street curb line and 5.0 feet southeast of the Second Avenue curb line.

- **SB-02 –** Advanced in the sidewalk along the west side of Second Avenue, 107 feet northeast of the parking lot entrance across from 36th Street and 3.0 feet northwest of the Second Avenue curb line.

- **SB-03 –** Advanced in the sidewalk along the west side of Second Avenue, 28 feet southwest of the northern 34th Street curb line and 4.0 feet northwest of the Second Avenue curb line.

- **SB-04 –** Advanced in the sidewalk along the west side of Second Avenue, 28 feet southwest of 32nd Street curb line and 3.0 feet northwest of Second Avenue curb line.

- **SB-05 –** Advanced in the sidewalk along the west side of Second Avenue, approximately 95 feet southwest of the southern 30th Street curb line and 4.5 feet southwest of the Second Avenue curb line.

- **SB-06 –** Advanced in the sidewalk along the west side of Second Avenue, 11.5 feet northeast of the 29th Street curb line and 8.5 feet northwest of the Second Avenue curb line.

- **SB-07 –** Advanced in the sidewalk along the north side of 29th Street, 14 feet west of the Third Avenue curb line and 15 feet north of the 29th Street curb line.

Soil from each boring was classified and examined for visual evidence (i.e., staining, discoloration) and any olfactory indications (i.e., odors) of contamination. Continuous soil samples were collected from each of the borings at 5.0 - foot intervals. In addition, a PID was used to screen the soil for VOC vapors. All re-useable sampling equipment was decontaminated using a deionized water and Alconox soap wash and then rinsed with deionized water.

In order to identify representative conditions relative to the presence of PAHs, PCBs, TPHC DRO/GRO, RCRA Characteristics, and TCLP RCRA metals over the entire soil column in each boring, composite soil samples were collected by mixing the soil from the entire column in a stainless steel bowl. Boring composite samples were collected from all seven soil borings.

In order to identify representative conditions relative to the presence of VOCs, grab samples were collected from the 6.0 - inch interval exhibiting evidence of petroleum impacts (highest PID reading) (i.e., SB-04 and SB-05), from the bottom 6.0 - inch interval in the boring (i.e., SB-02 and SB-07), or from the 6.0 - inch interval above the groundwater table (i.e., SB-01, SB-03, and SB-06).

3.2 Groundwater Quality Investigation

Groundwater was encountered within the Corridor; however, soil in the saturated zone consisted of tight silts and did not produce sufficient water to collect a sample. Therefore, no TWPs were installed and no groundwater samples were collected.

3.3 Laboratory Analyses

The soil samples were submitted to Chemtech, a NYSDOH approved laboratory (No. 11376). Field derived QA/QC samples (i.e., field blank, trip blank, duplicate) were not collected for this project. Laboratory analytical reports are included in Appendix C.

The grab soil samples were analyzed for USEPA TCL VOCs by Method 8260C. The boring composite soil samples were analyzed for: (1) PAHs via USEPA Method 8270D; (2) PCBs via USEPA Method 3550B/8082; (3) TPHC DRO/GRO via USEPA Method 8015B; (4) RCRA Characteristics via USEPA SW-846; and, (5) TCLP RCRA Metals via USEPA SW-846.

3.4 Data Evaluation

In order to evaluate the subsurface soil quality, the laboratory analytical results of the grab and composite soil samples were compared with the regulatory standards identified in: (1) NYSDEC Subpart 375-6: Remedial Program Restricted Use Commercial (Track 2) SCOs; and/or, (2) Toxicity Characteristic Regulatory Levels for Hazardous Waste published in RCRA and Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 371.

4.0 FINDINGS

This section discusses the analytical data and findings for the activities discussed in Section 3.0.

4.1 Field Screening

Field screening (i.e., PID readings, visual, and olfactory observations) did not identify impacted soils in borings SB-01, SB-02, SB-03, SB-06, and SB-07; however, PID readings of 5.0 parts per million (ppm) were detected in SB-04 and SB-05 along with slight petroleum odors. Refer to Table 1 for a summary of environmental boring data.

4.2 Soil and Groundwater Laboratory Analytical Results

4.2.1 Volatile Organic Compounds (VOCs) in Soil

VOCs were detected in four of the seven grab samples collected. Acetone and/or Methyl Ethyl Ketone/2-Butanone were detected at concentrations below the Part 375 Restricted Use – Commercial SCOs in samples SB-03 - 8.0 - 8.5, SB-04 - 7.5 - 8.0, SB-05 - 9.2 - 9.7, and/or SB-06 - 7.5 - 8.0. Acetone is a common laboratory cross contaminant and is most likely not representative of subsurface conditions. Carbon disulfide, cyclohexane, and methylcyclohexane were also detected; however, there are no corresponding Part 375 Restricted Use – Commercial SCOs for these parameters. Refer to Table 2 for a summary of TCL VOC detections.

4.2.2 Polycyclic Aromatic Hydrocarbons (PAHs) in Soil

PAHs were detected in all seven composite samples collected. Benzo(a)pyrene was detected in SB-03 - COMP, SB-06 - COMP, and SB-07 - COMP at concentrations exceeding the corresponding Part 375 Restricted Use – Commercial SCO. Acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene were also detected in one of more of the seven composite samples at concentrations below their corresponding Part 375 Restricted Use – Commercial SCOs. The detected PAHs may be attributed to: (a) residuals from isolated releases in the area of the Corridor; and/or, (b) the presence of fill material placed at the Corridor. Refer to Table 3 for a summary of PAH detections.

4.2.3 Polychlorinated Biphenyls (PCBs) in Soil

PCBs were detected in four of the seven composite samples collected. Aroclor 1254 and/or Aroclor 1260 were detected at concentrations below the Part 375 Restricted Use – Commercial SCOs in SB-01 - COMPRE, SB-02 - COMPRE, SB-03 - COMPRE, and SB-07 - COMPRE. Note that "RE" is added to the end of the sample identification by the laboratory in cases where the laboratory needs to re-analyze the sample because the initial analysis did not conform to analytical method quality control criteria. Refer to Table 4 for a summary of the PCB detections.

4.2.4 Toxicity Characteristic Leaching Procedure (TCLP) Resource Conservation and Recovery Act (RCRA) Metals in Soil

TCLP RCRA metals were detected in all seven composite samples collected. Arsenic, barium, cadmium, chromium, lead, and/or selenium were detected at concentrations below their corresponding 6 NYCRR Part 371 and RCRA standards. Based on their consistency, most of the detected concentrations are attributed to background levels. However, the detected concentrations for arsenic may be attributed to contaminants in fill material placed throughout the Corridor. Refer to Table 5 for a summary of TCLP RCRA metals detections.

4.2.5 Waste Characterization of Soil

Ignitability (flash point), reactivity (cyanide and sulfide), and corrosivity (pH) were within the acceptable RCRA ranges. TPHC-DRO was detected in all seven composite samples at concentrations ranging from approximately 27.2 milligrams per kilograms (mg/kg) in SB-01 - COMP to 195 mg/kg in SB-02 - COMP. TPHC-GRO was detected in five of the seven composite samples at concentrations ranging from 0.017 mg/kg in SB-04 - COMP to 0.036 mg/kg in SB-02 - COMP. There are no regulatory standards for TPHC-DRO and TPHC-GRO. Analytical results will need to be compared to levels acceptable by the chosen receiving facility to determine appropriate waste characterization prior to off-site disposal. Refer to Table 5 for a summary of TCLP parameters, RCRA Characteristics, and TPHC DRO/GRO results.

4.2.6 Analysis of NYCDEP Parameters in Groundwater

Groundwater was encountered within the Corridor; however, soil in the saturated zone consisted of tight silts and did not produce sufficient water to collect a sample. Therefore, no TWPs were installed and no groundwater samples were collected.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the evaluation of the field screening data, the laboratory analytical results, and a comparison to applicable regulatory standards, the following conclusions and recommendations are presented:

Conclusions

Field screening (i.e., PID readings and visual and olfactory observations) generally did not identify impacted in borings SB-01, SB-02, SB-03, SB-06, and SB-07; however, PID readings of 5.0 ppm were detected in SB-04 and SB-05 along with slight petroleum odors;

- Laboratory analytical results identified petroleum-impacted soils within portion(s) of the Corridor. The presence of elevated concentrations of petroleum components (i.e., PAHs and DRO/GRO) in subsurface soils in the Corridor is attributed primarily to: (a) residuals from releases of petroleum products in the vicinity of the Corridor; and, (b) contaminants in fill material placed on the Corridor;

- The subsurface soil samples collected from the Corridor did not exhibit hazardous waste characteristics; and,

- Groundwater was encountered within the Corridor; however, the saturated soil consisted of tight silts and did not produce sufficient water to collect a sample. Therefore, no TWPs were installed and no groundwater samples were collected.

Recommendations

- The Contract documents should identify provisions and a contingency for managing, handling, transporting and disposing of non-hazardous, contaminated soil. The Contractor should submit a Material Handling Plan to identify the specific protocols and procedures that will be employed to manage potentially contaminated waste, if encountered, during construction, in accordance with applicable regulations;

- Due to the presence of SVOC and DRO/GRO in the investigated sites, especially if contaminated or hazardous soil is encountered, a Community Air Monitoring Plan (CAMP) is required to minimize the creation and dispersion of fugitive airborne dust. The Contractor may implement dust control measures to minimize potential airborne contaminants released as a direct result of construction activities. A CAMP shall be developed in accordance with NYSDEC DER-10 Regulations. The CAMP requires real-time monitoring for VOCs and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is intended to provide a measure of protection for the downwind community from potential airborne contaminant releases as a direct result of investigative and remedial work activities;

- Should dewatering become necessary during construction activities within the Corridor, the Contractor will be required to obtain NYCDEP sewer discharge permit. Additional sampling and laboratory analysis may be required to satisfy NYCDEP sewer discharge permit requirements prior to discharge into storm sewers;

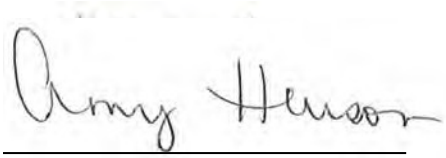
- If discharge into storm sewers is required during dewatering, it may be done under the appropriate NYSDEC State Pollutant Discharge Elimination System (SPDES) permit. Additional sampling and laboratory analysis may be required to satisfy NYSDEC requirements prior to discharge into storm sewers; and,

- Before beginning any excavation activity, the Contractor should submit a Corridor-specific health and safety plan (HASP) that will meet the requirements set forth by the Occupational, Safety and Health Administration (OSHA), the New York State Department of Health (NYSDOH) and any other applicable regulations. The HASP should identify the possible locations and risks associated with the potential contaminants that may be encountered, and the administrative and engineering controls that will be utilized to mitigate concerns (i.e., dust control procedures for SVOCs and DRO/GRO).

6.0 STATEMENT OF LIMITATIONS

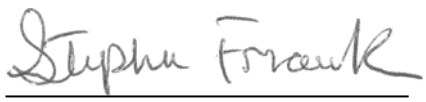
The data presented and the opinions expressed in this report are qualified as stated in the attachment to this section of the report.

Report Prepared By:



Amy Hewson
Senior Environmental Analyst

Report Reviewed By:



Stephen Frank
Senior Geologist

Report Reviewed By:

Robert Kreuzer
Project Manager

STATEMENT OF LIMITATIONS

The data presented and the opinions expressed in this report are qualified as follows:

The sole purpose of the investigation and of this report is to assess the physical characteristics of the Corridor with respect to the presence or absence in the environment of oil or hazardous materials and substances as defined in the applicable state and federal environmental laws and regulations and to gather information regarding current and past environmental conditions at the Corridor.

LiRo derived the data in this report primarily from visual inspections, examination of records in the public domain, interviews with individuals with information about the Corridor, and a limited number of subsurface explorations made on the dates indicated. The passage of time, manifestation of latent conditions or occurrence of future events may require further exploration at the Corridor, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report.

In preparing this report, LiRo has relied upon and presumed accurate certain information (or the absence thereof) about the Corridor and adjacent properties provided by governmental officials and agencies, the Client, and others identified herein. Except as otherwise stated in the report, LiRo has not attempted to verify the accuracy or completeness of any such information.

The data reported and the findings, observations, and conclusions expressed in the report are limited by the Scope of Services, including the extent of subsurface exploration and other tests. The Scope of Services was defined by the requests of the Client, the time and budgetary constraints imposed by the Client, and the availability of access to the Corridor.

Because of the limitations stated above, the findings, observations, and conclusions expressed by LiRo in this report are not, and should not be considered, an opinion concerning the compliance of any past or present owner or operator of the Corridor with any federal, state or local law or regulation. No warranty or guarantee, whether express or implied, is made with respect to the data reported or findings, observations, and conclusions expressed in this report. Further, such data, findings, observations, and conclusions are based solely upon Corridor conditions in existence at the time of investigation.

This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the Agreement and the provisions thereof.

TABLES

TABLE 1 – SUMMARY OF ENVIRONMENTAL BORING DATA
TABLE 2 – SUMMARY OF TCL VOCs DETECTED IN SOIL
TABLE 3 – SUMMARY OF PAHs DETECTED IN SOIL
TABLE 4 – SUMMARY OF PCBs DETECTED IN SOIL
TABLE 5 –SUMMARY OF WASTE CHARACTERIZATION IN SOIL

Table 1. Summary of Environmental Boring Data
Phase II Environmental Site Assessment

Boring No.	Sample ID	PID (ppm)	Sample Interval (ftbg)	Total VOCs (ug/kg)	Total PAHs (ug/kg)	Total PCBs (ug/kg)	Depth to Water (ftbg)	Total Depth (ftbg)	Other Comments
SB-01	SB-01 - 9.0 - 9.5	0.0	9.0 - 9.5	ND	NA	NA	9.5	10.0	No petroleum odors, visual evidence of impact, or elevated PID readings were detected.
	SB-01 - COMP		0.0 - 9.5	NA	1,152	23.0			
SB-02	SB-02 - 9.5 - 10.0	0.0	9.5 - 10.0	ND	NA	NA	10.0	10.0	No petroleum odors, visual evidence of impact, or elevated PID readings were detected.
	SB-02 - COMP		0.0 - 9.5	NA	3,160	82.0			
SB-03	SB-03 - 8.0 - 8.5	0.0	8.0 - 8.5	32.7	NA	NA	8.5	10.0	No petroleum odors, visual evidence of impact, or elevated PID readings were detected.
	SB-03 - COMP		0.0 - 8.0	NA	24,090	19.0			
SB-04	SB-04 - 7.5 - 8.0	5.0	7.5 - 8.0	57.5	NA	NA	8.0	10.0	Slight petroleum odor. No visual evidence of impact.
	SB-04 - COMP		0.0 - 7.5	NA	380	ND			
SB-05	SB-05 - 9.2 - 9.7	5.0	9.2 - 9.7	62.3	NA	NA	10.0	10.0	Slight petroleum odor. No visual evidence of impact.
	SB-05 - COMP		0.0 - 9.2	NA	3,020	ND			
SB-06	SB-06 - 7.5 - 8.0	0.0	7.5 - 8.0	28.2	NA	NA	8.0	10.0	No petroleum odors, visual evidence or impact, or elevated PID readings were detected.
	SB-06 - COMP		0.0 - 7.5	NA	18,110	ND			
SB-07	SB-07 - 9.0 - 10.0	0.0	9.0 - 10.0	ND	NA	NA	10.0	10.0	No petroleum odors, visual evidence or impact, or elevated PID readings were detected.
	SB-07 - COMP		0.0 - 9.0	NA	20,310	24.0			

Notes:
All grab samples were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs). All composite soil samples were analyzed for Polycyclic Aromatic Hydrocarbons (PAHs), TCL Polychlorinated Biphenyls (PCBs), Total Petroleum Hydrocarbon (TPHC) Diesel Range Organics/Gasoline Range Organics (TPHC DRO/GRO), Resource Conservation and Recovery Act (RCRA) Characteristics, and Toxicity Characteristic Leaching Procedure (TCLP) RCRA Metals.
NA = Not Analyzed/Not Applicable
ND = Non detect
ftbg = feet below grade surface
PID = photo-ionization detector
ppm = parts per million (or mg/kg)
ug/kg = microgram per kilogram

Table 2. Summary of Target Compound List (TCL) Volatile Organic Compounds (VOCs) Detected in Soil
Phase II Environmental Site Assessment

TCL VOC	Part 375-6.8 (b) Restricted Use (Track 2) Commercial Soil Cleanup Objectives (SCOs)	Sample ID, Date Collected, and Depth (ftbg)						
		SB-01 - 9.0 - 9.5	SB-02 - 9.5 - 10.0	SB-03 - 8.0 - 8.5	SB-04 - 7.5 - 8.0	SB-05 - 9.2 - 9.7	SB-06 - 7.5 - 8.0	SB-07 - 9.0 - 10.0
		8/19/2019	8/19/2019	8/19/2019	8/19/2019	8/19/2019	8/19/2019	8/19/2019
		9.0 - 9.5	9.5 - 10.0	8.0 - 8.5	7.5 - 8.0	9.2 - 9.7	7.5 - 8.0	9.0 - 10.0
Acetone	500,000	ND	ND	25.0 J	42	48	24.0 J	ND
Carbon Disulfide	NS	ND	ND	ND	4.5 J	1.3 J	4.2 J	ND
Cyclohexane	NS	ND	ND	3.7 J	ND	ND	ND	ND
Methyl Ethyl Ketone / 2-Butanone	500,000	ND	ND	ND	11.0 J	13.0 J	ND	ND
Methylcyclohexane	NS	ND	ND	4.0 J	ND	ND	ND	ND
Total VOCs	NS	ND	ND	32.7	57.5	62.3	28.2	ND

Notes:
All concentrations are reported in parts per billion (ppb or ug/kg)
ftbg = feet below grade surface
NS = No Standard
ND = Compound not detected above method detection limit (see attached lab report for mdl's)
J = Estimated value
SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006).

Table 3. Summary of Polycyclic Aromatic Hydrocarbons (PAHs) Detected in Soil
Phase II Environmental Site Assessment

PAHs	Part 375-6.8 (b) Restricted Use (Track 2) Commercial Soil Cleanup Objectives (SCOs)	Sample ID, Date Collected, and Depth (ftbg)						
		SB-01 - COMP	SB-02 - COMP	SB-03 - COMP	SB-04 - COMP	SB-05 - COMP	SB-06 - COMP	SB-07 - COMP
		8/19/2019	8/19/2019	8/19/2019	8/19/2019	8/19/2019	8/19/2019	8/19/2019
		0.0 - 9.5	0.0 - 9.5	0.0 - 8.0	0.0 - 7.5	0.0 - 9.2	0.0 - 7.5	0.0 - 9.0
Acenaphthene	500,000	ND	ND	980 J	ND	ND	420	350 J
Acenaphthylene	500,000	ND	ND	ND	ND	ND	680	ND
Anthracene	500,000	ND	ND	1,400 J	ND	100 J	720	670
Benzo(a)anthracene	5,600	110 J	400 J	1,700 J	ND	280 J	1,700	2,000
Benzo(a)pyrene	1,000	98 J	370 J	1,300 J	ND	260 J	1,100	1,700
Benzo(b)fluoranthene	5,600	130 J	550 J	1,700 J	110 J	310 J	1,800	2,000
Benzo(g,h,i)perylene	500,000	84 J	ND	520 J	ND	130 J	990	870
Benzo(k)fluoranthene	56,000	ND	ND	510 J	ND	120 J	390	620
Chrysene	56,000	110 J	410 J	1,500 J	ND	260 J	1,600	1,700
Dibenzo[a,h]anthracene	560	ND	ND	ND	ND	ND	170 J	210 J
Flouranthene	500,000	220 J	680 J	4,200	140 J	570	2,700	3,200
Fluorene	500,000	ND	ND	860 J	ND	ND	250 J	280 J
Indeno(1,2,3-cd)pyrene	5,600	ND	ND	520 J	ND	110 J	630	760
Napthalene	500,000	ND	ND	ND	ND	ND	140 J	150 J
Phenanthrene	500,000	200 J	ND	5,600	ND	390 J	920	2,600
Pyrene	500,000	200 J	750 J	3,300	130 J	490	4,000 E	3,200
Total PAHs	NS	1,152	3,160	24,090	380	3,020	18,110	20,310

Notes:
All concentrations are reported in parts per billion (ppb or ug/kg)
ftbg = feet below grade surface
ND = Compound not detected above method detection limit (see attached lab report for mdl's)
NS = No Standard
J = Estimated value
E = Value Exceeds Calibration Range
PAHs = Polycyclic Aromatic Hydrocarbons
SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006).

Shaded = Concentration exceeds Restricted Use (Track 2) Commercial SCOs

Table 4. Summary of Polychlorinated Biphenyls (PCBs) Detected in Soil
Phase II Environmental Site Assessment

PCBs	Part 375-6.8 (b) Restricted Use (Track 2) Commercial Soil Cleanup Objectives (SCOs)	Sample ID, Date Collected, and Depth (ftbg)						
		SB-01 - COMPRE	SB-02 - COMPRE	SB-03 - COMPRE	SB-04 - COMPRE	SB-05 - COMPRE	SB-06 - COMPRE	SB-07 - COMPRE
		8/19/2019	8/19/2019	8/19/2019	8/19/2019	8/19/2019	8/19/2019	8/19/2019
		0.0 - 9.5	0.0 - 9.5	0.0 - 8.0	0.0 - 7.5	0.0 - 9.2	0.0 - 7.5	0.0 - 9.0
Aroclor 1254	NS	ND	ND	ND	ND	ND	ND	13.0 J
Aroclor 1260	NS	23	82.0 P	19.0 JP	ND	ND	ND	11.0 J
Total PCBs	1,000	23.0	82.0	19.0	ND	ND	ND	24.0

Notes:
All concentrations are reported in parts per billion (ppb or ug/kg)
ftbg = feet below grade surface

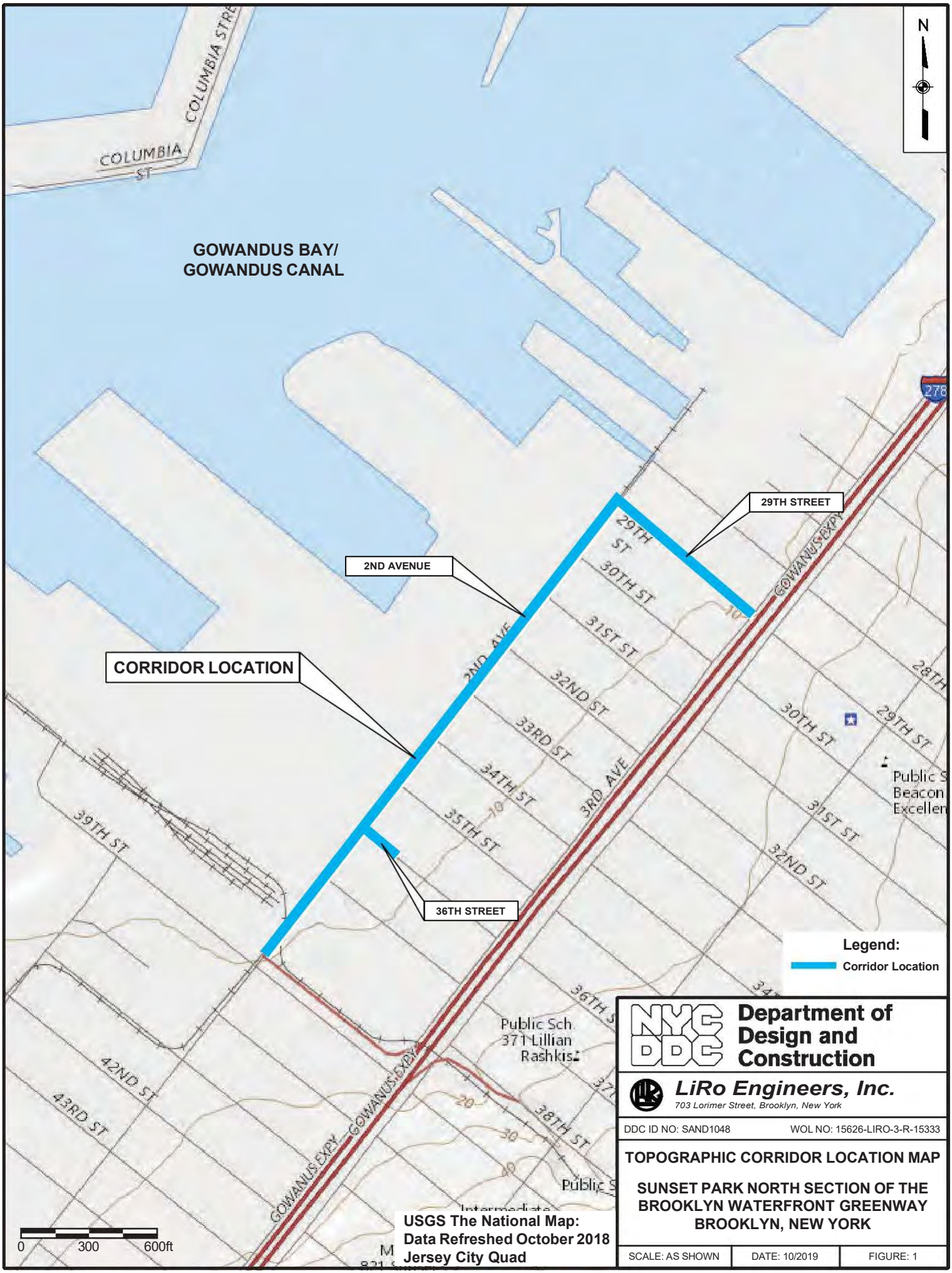
RE = Re-evaluated due to surrogate recovery being outside of the QC limits and/or the closing Continuous Calibration Check (CCC) was also outside the acceptable QC limits
ND = Compound not detected above method detection limit (see attached lab report for mdl's)
NS = No Standard
J = Estimated value
P = Indicates >25% difference for detected concentrations between the two GC columns.
SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006).

Table 5. Summary of Waste Characterization in Soil
Phase II Environmental Site Assessment

Parameter	6 NYCRR Part 371 and RCRA	Sample ID, Date Collected, and Depth (ftbg)						
		SB-01 - COMP	SB-02 - COMP	SB-03 - COMP	SB-04 - COMP	SB-05 - COMP	SB-06 - COMP	SB-07 - COMP
		8/19/2019	8/19/2019	8/19/2019	8/19/2019	8/19/2019	8/19/2019	8/19/2019
		0.0 - 9.5	0.0 - 9.5	0.0 - 8.0	0.0 - 7.5	0.0 - 9.2	0.0 - 7.5	0.0 - 9.0
METALs[1]	**ug/L**							
Arsenic	5,000	16 J	ND	ND	ND	44 J	ND	ND
Barium	100,000	1,980 N	1,340 N	1,770 N	1,620 N	2,010 N	1,430 N	960 N
Cadmium	1,000	4.5 J	5.2 J	3.4 J	4.5 J	ND	2.1 J	2.1 J
Chromium	5,000	ND	ND	ND	ND	ND	16 J	15 J
Lead	5,000	120	110	220	1,630	44 J	700	310
Selenium	1,000	28 J	47 J	51 J	57 J	74 J	47 J	43 J
MISC. PARAMETERS (units)								
Reactivity Sulfide (mg/kg)	500	ND	ND	ND	ND	ND	ND	ND
Reactivity Cyanide (mg/kg)	250	ND	ND	ND	ND	ND	ND	ND
pH (SU)	2-12.5	7.94 H	10.0 H	8.81 H	8.07 H	8.2 H	10.2 H	10.6 H
Ignitability	>140 °F	No	No	No	No	No	No	No
TPHC Diesel Range Organics (mg/kg)	NS	27.2	195	172	55	42.3	161	28.1
TPHC Gasoiline Range Organics (mg/kg)	NS	0.019 J	0.036 J	0.028 J	0.017 J	0.027 J	ND	ND

Notes:
ftbg = feet below grade surface
NS = No Standard
ND = Compound not detected above method detection limit (see attached lab report for mdl's)
SU = Standard unit
J = Estimated value
N = Spiked sample recovery not within control limits
H = Sample analysis out of hold time
mg/Kg = milligram per kilogram
ug/L = microgram per liter
[1] = TCLP RCRA Metals

FIGURE 1 – TOPOGRAPHIC CORRIDOR LOCATION MAP



V:\NYCDDC\17-155-0265 - 2017 DDC OGES\Design\Phase I - Phase II\15626 Sunset Park Ph II SCI\Sunset Park Topo Map.ai

Department of Design and Construction

LiRo Engineers, Inc.
703 Lorimer Street, Brooklyn, New York

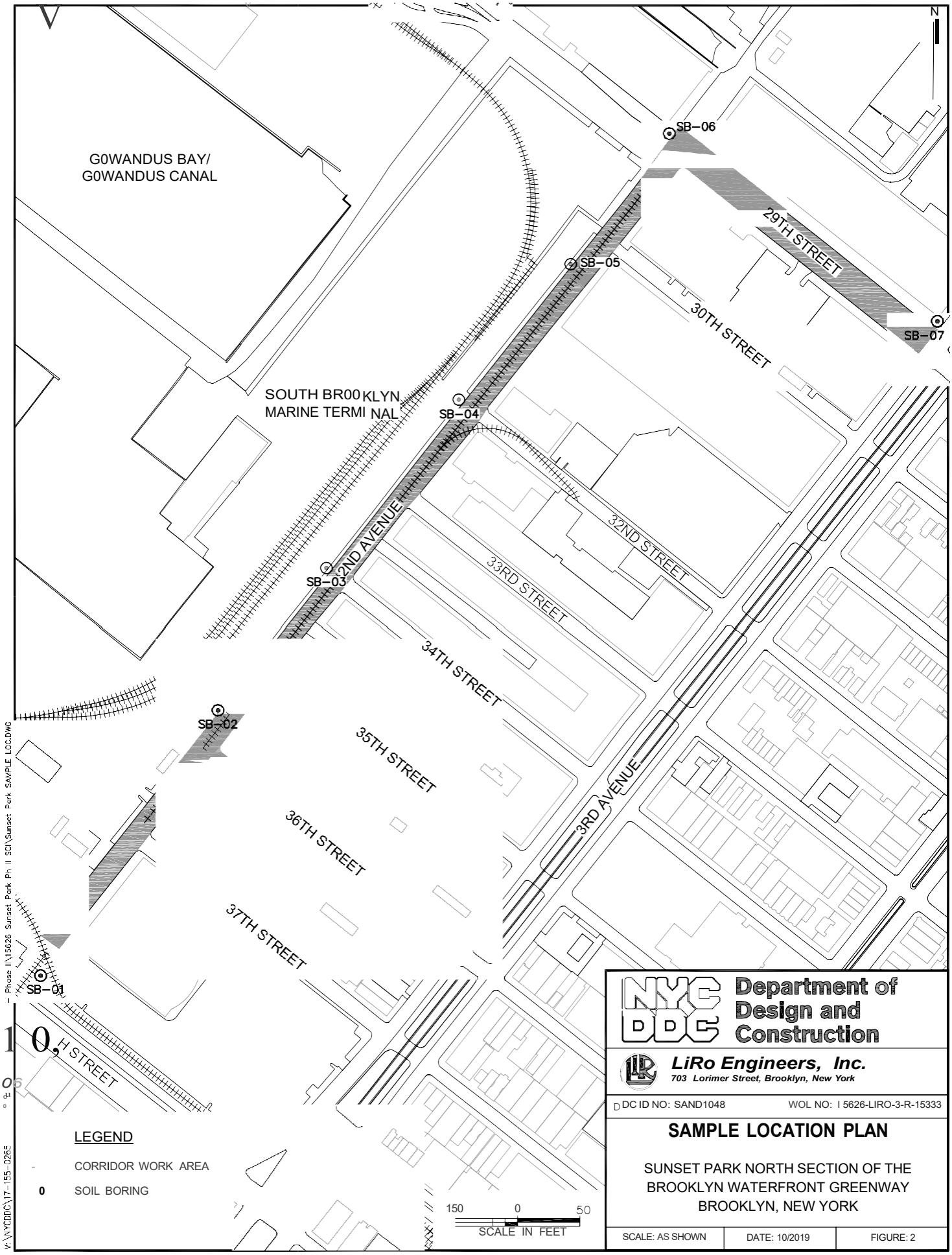
DDC ID NO: SAND1048 | WOL NO: 15626-LIRO-3-R-15333

TOPOGRAPHIC CORRIDOR LOCATION MAP

SUNSET PARK NORTH SECTION OF THE BROOKLYN WATERFRONT GREENWAY BROOKLYN, NEW YORK

SCALE: AS SHOWN	DATE: 10/2019	FIGURE: 1

FIGURE 2 – SAMPLE LOCATION PLAN



NYC DDC Department of Design and Construction

LiRo Engineers, Inc.
703 Lorimer Street, Brooklyn, New York

DDC ID NO: SAND1048 WOL NO: I 5626-LIRO-3-R-15333

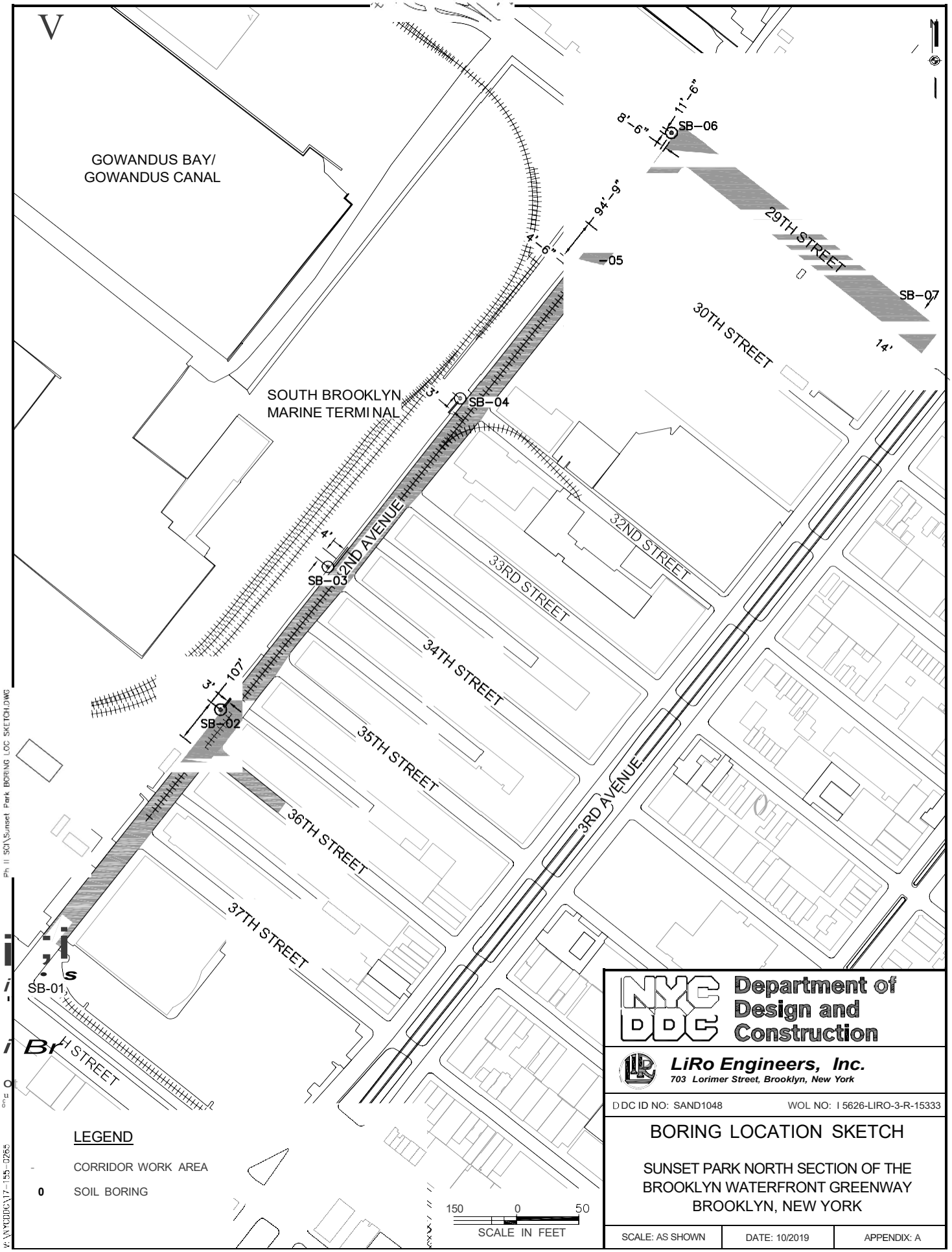
SAMPLE LOCATION PLAN

SUNSET PARK NORTH SECTION OF THE
BROOKLYN WATERFRONT GREENWAY
BROOKLYN, NEW YORK

SCALE: AS SHOWN	DATE: 10/2019	FIGURE: 2

V:\NYCDDC\17_155_0265 - Phase II\15626 Sunset Park Pri II SCI\Sunset Park SAMPLE LOC.DWG

APPENDIX A
BORING LOCATION SKETCHES



Department of Design and Construction

LiRo Engineers, Inc.
703 Lorimer Street, Brooklyn, New York

DDC ID NO: SAND1048 WOL NO: I 5626-LIRO-3-R-15333

BORING LOCATION SKETCH

SUNSET PARK NORTH SECTION OF THE
BROOKLYN WATERFRONT GREENWAY
BROOKLYN, NEW YORK

SCALE: AS SHOWN	DATE: 10/2019	APPENDIX: A

APPENDIX B
GEOLOGIC BORING LOGS

LiRo Engineers, Inc.

TEST BORING LOG

BORING NO:	**SB-01**
PROJECT: Sunset Park North Section of the Brooklyn Waterfront Greenway	**SHEET:**
CLIENT: Department of Design and Construction - OEGS - SAND1048	**JOB NO.:** 17-155-0265
BORING CONTRACTOR: AARCO Environmental Services Corp.	**LOCATION:** 39th St. and 2nd Ave.
GROUNDWATER: 9.5	**GROUND ELEVATION:** NA
DATE STARTED:	August 19, 2019
DATE FINISHED:	August 19, 2019
DRILLER:	Daybi Pacheco/Jose Romero
GEOLOGIST:	Scott Swanson
REVIEWED BY:	Steve Frank

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	TUBE
			NA	DIA.		5' Macros	
				WT.			
				FALL			

DEPTH FEET	SAMPLE STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC% / RQD%	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1								tree box mulch	Fill	
								fill w/brick, stone, soil		Cleared to 6 ftbg
					NA	Red Brown	NA	SAND with some gravel, trace silt	SP	0.0 ppm
6										
					100%	Red Brown	Medium loose	Fine to coarse SAND, some gravel		
10						Brown	Medium dense	SILT w some sand, gravel	ML	Wet @ 9.5'
15								End of boring at 10 ftbg		
20										
25										
30										
35										

COMMENTS: Grab sample collected @ 9.0-9.5 ftbg for VOCs. Composite sample collected from 0-9.5 ftbg for remaining parameters. Soil was classified according to the Unified Soil Classification System (USCS).

PROJECT NO.: 17-155-0265

BORING NO.: SB-01

LiRo Engineers, Inc.

TEST BORING LOG

BORING NO:	**SB-02**
PROJECT: Sunset Park North Section of the Brooklyn Waterfront Greenway	**SHEET:**
CLIENT: Department of Design and Construction - OEGS - SAND1048	**JOB NO.:** 17-155-0265
BORING CONTRACTOR: AARCO Environmental Services Corp.	**LOCATION:** 36th St. and 2nd Ave.
GROUNDWATER: 10	**GROUND ELEVATION:** NA
DATE STARTED:	August 19, 2019
DATE FINISHED:	August 19, 2019
DRILLER:	Daybi Pacheco/Jose Romero
GEOLOGIST:	Scott Swanson
REVIEWED BY:	Steve Frank

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	TUBE
			NA	DIA.		5' Macros	
				WT.			
				FALL			

DEPTH FEET	SAMPLE STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC% / RQD%	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1								asphalt walk	Fill	
								gravely sand some silt		Cleared to 6 ftbg
					NA	Red Brown	NA	SAND with some gravel, trace silt	SP	0.0 ppm
6										
					100%	Red Brown	Medium loose	Fine to coarse SAND, some gravel		
10							Medium dense	SILT w some sand, gravel	ML	wet @ 10'
15								End of boring at 10 ftbg		
20										
25										
30										
35										

COMMENTS: Grab sample collected @ 9.5-10.0 ftbg for VOCs. Composite sample collected from 0-9.5 ftbg for remaining parameters. Soil was classified according to the Unified Soil Classification System (USCS).

PROJECT NO.: 17-155-0265

BORING NO.: SB-02

LiRo Engineers, Inc.

TEST BORING LOG

BORING NO:	**SB-03**
PROJECT: Sunset Park North Section of the Brooklyn Waterfront Greenway	**SHEET:**
CLIENT: Department of Design and Construction - OEGS - SAND1048	**JOB NO.:** 17-155-0265
BORING CONTRACTOR: AARCO Environmental Services Corp.	**LOCATION:** 34th St. and 2nd Ave.
GROUNDWATER: 8.5	**GROUND ELEVATION:** NA
DATE STARTED:	August 19, 2019
DATE FINISHED:	August 19, 2019
DRILLER:	Daybi Pacheco/Jose Romero
GEOLOGIST:	Scott Swanson
REVIEWED BY:	Steve Frank

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	TUBE
			NA	DIA.		5' Macros	
				WT.			
				FALL			

DEPTH FEET	SAMPLE STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC% / RQD%	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1								asphalt walk	Fill	Cleared to 6 ftbg
								gravely sand some silt		
					NA	Red Brown	NA	SAND with some gravel, trace silt	SP	0.0 ppm
6										
							Medium loose	Fine to coarse SAND, some gravel		wet @ 8.5'
					100%	Brown				
10							Medium Dense	SILT w some sand, gravel	ML	

End of boring at 10 ftbg

15 20 25 30 35

COMMENTS: Grab sample collected @ 8.0-8.5 ftbg for VOCs. Composite sample collected from 0-8.0 ftbg for remaining parameters. Soil was classified according to the Unified Soil Classification System (USCS).

PROJECT NO.: 17-155-0265

BORING NO.: SB-03

LiRo Engineers, Inc.

TEST BORING LOG

BORING NO:	**SB-04**
PROJECT: Sunset Park North Section of the Brooklyn Waterfront Greenway	**SHEET:**
CLIENT: Department of Design and Construction - OEGS - SAND1048	**JOB NO.:** 17-155-0265
BORING CONTRACTOR: AARCO Environmental Services Corp.	**LOCATION:** 32nd St. and 2nd Ave.
GROUNDWATER: 8	**GROUND ELEVATION:** NA
DATE STARTED:	August 19, 2019
DATE FINISHED:	August 19, 2019
DRILLER:	Daybi Pacheco/Jose Romero
GEOLOGIST:	Scott Swanson
REVIEWED BY:	Steve Frank

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	TUBE
			NA	DIA.		5' Macros	
				WT.			
				FALL			

DEPTH FEET	SAMPLE STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC% / RQD%	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1								asphalt walk	Fill	
								gravely sand some silt		Cleared to 6 ftbg
					NA	Gray Brown	NA	SAND with some gravel, trace silt	SP	0.0 ppm slight odor
6										
					100%		Medium loose	Fine to coarse SAND, some gravel		5 ppm petroleum odor wet @ 8'
						Brown		SILT w some sand, gravel	ML	Too tight to recharge water
10										

End of boring at 10 ftbg

COMMENTS: Grab sample collected @ 7.5-8.0 ftbg for VOCs. Composite sample collected from 0-7.5 ftbg for remaining parameters. Soil was classified according to the Unified Soil Classification System (USCS). Water could not be sampled due to tight formation.

PROJECT NO.: 17-155-0265

BORING NO.: SB-04

LiRo Engineers, Inc.

TEST BORING LOG

BORING NO:	**SB-05**
PROJECT: Sunset Park North Section of the Brooklyn Waterfront Greenway	**SHEET:**
CLIENT: Department of Design and Construction - OEGS - SAND1048	**JOB NO.:** 17-155-0265
BORING CONTRACTOR: AARCO Environmental Services Corp.	**LOCATION:** 31st St. and 2nd Ave.
GROUNDWATER: 10	**GROUND ELEVATION:** NA
DATE STARTED:	August 19, 2019
DATE FINISHED:	August 19, 2019
DRILLER:	Daybi Pacheco/Jose Romero
GEOLOGIST:	Scott Swanson
REVIEWED BY:	Steve Frank

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	TUBE
			NA	DIA.		5' Macros	
				WT.			
				FALL			

DEPTH FEET	SAMPLE STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC% RQD%	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1								asphalt walk	Fill	
								gravely sand some silt		Cleared to 6 ftbg
					NA	Black/Brown	NA	SAND with some gravel, trace silt	SP	0.0 ppm slight petroleum odors
6										
					80%	Black/Brown	Medium loose	Fine to coarse SAND, some gravel		5 ppm petroleum odor
10										wet @ 10'
								End of boring at 10 ftbg		
15										
20										
25										
30										
35										

COMMENTS: Grab sample collected @ 9.2-9.7 ftbg for VOCs. Composite sample collected from 0-9.2 ftbg for remaining parameters. Soil was classified according to the Unified Soil Classification System (USCS).

PROJECT NO.: 17-155-0265

BORING NO.: SB-05

LiRo Engineers, Inc.

TEST BORING LOG

BORING NO:	**SB-06**
PROJECT: Sunset Park North Section of the Brooklyn Waterfront Greenway	**SHEET:**
CLIENT: Department of Design and Construction - OEGS - SAND1048	**JOB NO.:** 17-155-0265
BORING CONTRACTOR: AARCO Environmental Services Corp.	**LOCATION:** 29th St. and 2nd Ave.
GROUNDWATER: 8	**GROUND ELEVATION:** NA
DATE STARTED:	August 19, 2019
DATE FINISHED:	August 19, 2019
DRILLER:	Daybi Pacheco/Jose Romero
GEOLOGIST:	Scott Swanson
REVIEWED BY:	Steve Frank

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	TUBE
			NA	DIA.		5' Macros	
				WT.			
				FALL			

DEPTH FEET	SAMPLE STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC% / RQD%	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1								concrete sidewalk	Fill	
								gravely sand some silt		Cleared to 6 ftbg
					NA	Dark brown	NA	Fine to coarse SAND, some gravel	SP	0.0 ppm
6										Moist
					80%	Brown	Medium loose	Fine to coarse SAND, some gravel		wet @ 8'
10										
15								End of boring at 10 ftbg		
20										
25										
30										
35										

COMMENTS: Grab sample collected @ 7.5-8.0 ftbg for VOCs. Composite sample collected from 0-7.5 ftbg for remaining parameters. Soil was classified according to the Unified Soil Classification System (USCS).

PROJECT NO.: 17-155-0265

BORING NO.: SB-06

LiRo Engineers, Inc.

TEST BORING LOG

BORING NO:	**SB-07**
PROJECT: Sunset Park North Section of the Brooklyn Waterfront Greenway	**SHEET:** 1 of 18
CLIENT: Department of Design and Construction - OEGS - SAND1048	**JOB NO.:** 17-155-0265
BORING CONTRACTOR: AARCO Environmental Services Corp.	**LOCATION:** 29th St. and 3rd Ave.
GROUNDWATER: 10	**GROUND ELEVATION:** NA
DATE STARTED:	August 19, 2019
DATE FINISHED:	August 19, 2019
DRILLER:	Daybi Pacheco/Jose Romero
GEOLOGIST:	Scott Swanson
REVIEWED BY:	Steve Frank

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	TUBE
			NA	DIA.		5' Macros	
				WT.			
				FALL			

DEPTH FEET	SAMPLE STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC% / RQD%	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1								concrete sidewalk	Fill	
								gravely sand some silt		Cleared to 6 ftbg
					NA	Dark brown to orange brown, trace of black	NA	Medium to coarse SAND, some gravel	SW	0.0 ppm
6										Moist
					80%	Brown	Medium loose	Medium to coarse SAND, some gravel		0.0 ppm Moist
10										wet @ 10'

End of boring at 10 ftbg

COMMENTS: Grab sample collected @ 9-10 ftbg for VOCs. Composite sample collected from 0-9 ftbg for remaining parameters. Soil was classified according to the Unified Soil Classification System (USCS).

PROJECT NO.: 17-155-0265

BORING NO.: SB-07

APPENDIX C
LABORATORY ANALYTICAL RESULTS

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

DATA FOR

VOLATILE ORGANICS

SEMI-VOLATILE ORGANICS

GC SEMI-VOLATILES

METALS

GENERAL CHEMISTRY

PROJECT NAME : DDC OEGS - SUNSET PARK PHASE II SCI

LIRO ENGINEERS, INC.

690 Delaware Ave.

Buffalo, NY - 14209

Phone No: 716-882-5476

ORDER ID : K4421

ATTENTION : Steve Frank

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Date : 08/26/2019

Dear Steve Frank,

21 soil samples for the **DDC OEGS - Sunset Park Phase II SCI** project were received on **08/20/2019.** The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

The invoice for this workorder is also attached to the e-mail.

Regards,

Steven T Chaimowitz

s.chaim@chemtech.net

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax (908) 789-8922 www.chemtech.net

CHAIN OF CUSTODY RECORD

Chemtech Project Number: K4421

COC Number: 2026127

CLIENT INFORMATION

Report to be sent to:

COMPANY: LiRo ENGINEERS, INC.
ADDRESS: 690 DELAWARE AVE,
CITY: BUFFALO STATE: NY ZIP: 14209
ATTENTION: Steve Frank
PHONE: 716-882-5476 FAX:

PROJECT INFORMATION

PROJECT NAME: SUNSET PARK PHII
PROJECT#: L7-1SS-.02_4;- LOCATION:
PROJECT MANAGER: ..5r-eJ tz:
E-MAIL: FRANKS@Liro.com
PHONE: 716 882 5476 FAX:

BILLING INFORMATION

BILL TO: SAME PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION:
PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) ______ DAYS*
HARDCOPY (DATA PACKAGE): ______ DAYS*
EDD: ______ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- [X] Level 1 (Results Only)
- [ ] Level 2 (Results + QC)
- [ ] Level 3 (Results + QC + Raw Data)
- [ ] Level 4 (QC + Full Raw Data)
- [ ] NJ Reduced
- [ ] US EPA CLP
- [ ] NYS ASP A
- [ ] NYS ASP B
- [ ] Other
- [X] EDD FORMAT

ANALYSIS

1. TCL VOCs
2. 8260B
3. PAHs 8270
4. TCL PCBs 8082
5. TPH DRO/GRO
6. RCRA PAR.
7. TCLP RCRA (metals)
8.
9.

PRESERVATIVES

COMMENTS: <--Specify Preservatives: A-HCl, B-HNO3, C-H2SO4, D-NaOH, E-ICE, F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	COMP	GRAB	DATE	TIME	# of Bottles	1	2	3	4	5	6	7	8	9
1.	SUNSET PARK - SB 7 - COMP	SOIL	X		8/19/19	9:40	3		X	X	X	X	X	X		
2.	SB 7 - 9'-10			X		9:30	1	X								
3.	SB6 - COMP		X			10:20	3		X	X	X	X	X	X		
4.	SB6 - 7.5-8.0			X		10:10	1	X								
5.	SB5 - COMP		X			10:55	3		X	X	X	X	X	X		
6.	SB5 - 9.2-9.7			X		10:45	1	X								
7.	SB4 - COMP		X			11:30	3		X	X	X	X	X	X		
8.	SB4 - 7.5-8.0'			X		11:20	1	X								
9.	SB3 - COMP		X			12:10	3		X	X	X	X	X	X		
10.	SB3 - 8.0-8.5'			X		12:00	1	X								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY	DATE/TIME	RECEIVED BY
RELINQUISHED BY SAMPLER: 1. [signature]	8/19/19 4:30 PM	1. Paul Czulak 8-20 10:48
RELINQUISHED BY: 2. Paul Czulak	8/19 refrigerator 8-20	RECEIVED BY: 2. [signature]
RELINQUISHED BY: 3.	DATE/TIME	RECEIVED FOR LAB BY: 3.

Conditions of bottles or coolers at receipt: [X] COMPLIANT [ ] NON COMPLIANT [ ] COOLER TEMP 3.9°

Comments:

Page 1 of 2

CLIENT: [ ] Hand Delivered [ ] Other: ______
CHEMTECH: [X] Picked Up

Shipment Complete: [X] YES [ ] NO

10/2018 WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

Chemtech Project Number: K4421

COC Number: 2026128

CLIENT INFORMATION

Report to be sent to:

COMPANY: LiRO ENGINEERS INC.
ADDRESS: 690 DELAWARE AVE.
CITY: BUFFALO STATE: NY ZIP: 14209
ATTENTION: STEVE FRANK
PHONE: 716-882-5476 FAX:

PROJECT INFORMATION

PROJECT NAME: SUNSET PARK PH II
PROJECT #: 17-155-0265 LOCATION:
PROJECT MANAGER: STEVE FRANK
E-MAIL: FRANKS@liro.com
PHONE: 716 882 5476 FAX:

BILLING INFORMATION

BILL TO: SAME PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION:
PHONE:

DATA TURNAROUND INFORMATION

FAX(RUSH) ______ DAYS*
HARDCOPY (DATA PACKAGE): ______ DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other ______

ANALYSIS

1. TCL VOCs 8260
2. PAHs 8270
3. TCL PCB 3550B/8082
4. TPH DRO/GRO
5. RCRA PARA (8015B / 6010/7000)
6. TCLP REC METALS
7.
8.
9.

PRESERVATIVES

E E E E E E

COMMENTS

<—Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	DATE	TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9
1.	ST PARK – SB2 COMP	Soil	X		8/19/19	12:40	3		X	X	X	X	X			
2.	SB2 – 9.5-10.0	↓		X	↓		↓	X								
3.	SB1 – COMP	↓	X		↓		3		X	X	X	X	X			
4.	SB1 – 9.0-9.5	↓		X	↓	1:15	↓	X								
5.																
6.																
7.																
8.																
9.																
10.																

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY	DATE/TIME	RECEIVED BY	
RELINQUISHED BY SAMPLER 1. [signature]	8/19/19 4:30	1. Paul Zulal 8-20-19 10:48	Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.9°
RELINQUISHED BY 2. Paul Zulal	13:45 8-20-19 (Refrig)	RECEIVED BY 2. [signature]	Comments:
RELINQUISHED BY 3.	DATE/TIME	RECEIVED FOR LAB BY 3.	Page of

CLIENT: ☐ Hand Delivered ☐ Other: ______
CHEMTECH: ☒ Picked Up

Shipment Complete
YES ☐ NO

10/2018

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-7-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Moisture:	15.1 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG005668.D	1	08/21/19 08:10	08/21/19 17:34	PB122422

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	28.1		0.98	1.96	mg/Kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.7		37 - 130	78%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-7-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-01	Matrix:	SOIL
Analytical Method:	8015D GRO	% Moisture:	15.1 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB022062.D	1	08/21/19 15:48	FB082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	0.053	U	0.014	0.053	mg/Kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.6		50 - 150	83%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-7-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	15.1 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR040487.D	1	08/21/19 13:10	08/21/19 19:20	PB122439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.020	U	0.0024	0.020	mg/Kg
11104-28-2	Aroclor-1221	0.020	U	0.0079	0.020	mg/Kg
11141-16-5	Aroclor-1232	0.020	U	0.0077	0.020	mg/Kg
53469-21-9	Aroclor-1242	0.020	U	0.0069	0.020	mg/Kg
12672-29-6	Aroclor-1248	0.020	U	0.0065	0.020	mg/Kg
11097-69-1	Aroclor-1254	0.011	J	0.0076	0.020	mg/Kg
37324-23-5	Aroclor-1262	0.020	U	0.0059	0.020	mg/Kg
11100-14-4	Aroclor-1268	0.020	U	0.0050	0.020	mg/Kg
11096-82-5	Aroclor-1260	0.0093	J	0.0054	0.020	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	14.9		10 - 166	75%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.3		60 - 125	71%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/20/19
Client Sample ID:	SUNSET-PARK-SB-7-COMPRE	SDG No.:	K4421
Lab Sample ID:	K4421-01RE	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	15.1 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR040505.D	1	08/21/19 13:10	08/22/19 11:54	PB122439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.020	U	0.0024	0.020	mg/Kg
11104-28-2	Aroclor-1221	0.020	U	0.0079	0.020	mg/Kg
11141-16-5	Aroclor-1232	0.020	U	0.0077	0.020	mg/Kg
53469-21-9	Aroclor-1242	0.020	U	0.0069	0.020	mg/Kg
12672-29-6	Aroclor-1248	0.020	U	0.0065	0.020	mg/Kg
11097-69-1	Aroclor-1254	0.013	J	0.0076	0.020	mg/Kg
37324-23-5	Aroclor-1262	0.020	U	0.0059	0.020	mg/Kg
11100-14-4	Aroclor-1268	0.020	U	0.0050	0.020	mg/Kg
11096-82-5	Aroclor-1260	0.011	J	0.0054	0.020	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.5		10 - 166	82%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.2		60 - 125	76%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-7-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-01	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	15.1
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF116466.D	1	08/21/19 08:20	08/21/19 15:29	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	0.15	J	0.058	0.39	mg/Kg
208-96-8	Acenaphthylene	0.39	U	0.070	0.39	mg/Kg
83-32-9	Acenaphthene	0.35	J	0.080	0.39	mg/Kg
86-73-7	Fluorene	0.28	J	0.060	0.39	mg/Kg
85-01-8	Phenanthrene	2.60		0.067	0.39	mg/Kg
120-12-7	Anthracene	0.67		0.065	0.39	mg/Kg
206-44-0	Fluoranthene	3.20		0.058	0.39	mg/Kg
129-00-0	Pyrene	3.20		0.072	0.39	mg/Kg
56-55-3	Benzo(a)anthracene	2.00		0.044	0.39	mg/Kg
218-01-9	Chrysene	1.70		0.050	0.39	mg/Kg
205-99-2	Benzo(b)fluoranthene	2.00		0.057	0.39	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.62		0.066	0.39	mg/Kg
50-32-8	Benzo(a)pyrene	1.70		0.052	0.39	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.76		0.085	0.39	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.21	J	0.061	0.39	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.87		0.072	0.39	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	73.7		31 - 132	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.7		39 - 123	73%	SPK: 100
1718-51-0	Terphenyl-d14	67.3		37 - 115	67%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	79900	6.79			
1146-65-2	Naphthalene-d8	317000	8.07			
15067-26-2	Acenaphthene-d10	170000	9.83			
1517-22-2	Phenanthrene-d10	304000	11.32			
1719-03-5	Chrysene-d12	231000	13.97			
1520-96-3	Perylene-d12	230000	15.42			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-7-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-01	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	15.1
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF116466.D	1	08/21/19 08:20	08/21/19 15:29	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-7-9-10	SDG No.:	K4421
Lab Sample ID:	K4421-02	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	12.6
Sample Wt/Vol:	5.07 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012103.D	1		08/22/19 11:59	VW082219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.0056	U	0.0010	0.0056	mg/Kg
74-87-3	Chloromethane	0.0056	U	0.0020	0.0056	mg/Kg
75-01-4	Vinyl Chloride	0.0056	U	0.0013	0.0056	mg/Kg
74-83-9	Bromomethane	0.0056	U	0.00043	0.0056	mg/Kg
75-00-3	Chloroethane	0.0056	U	0.00065	0.0056	mg/Kg
75-69-4	Trichlorofluoromethane	0.0056	U	0.00073	0.0056	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0056	U	0.00090	0.0056	mg/Kg
75-65-0	Tert butyl alcohol	0.028	U	0.017	0.028	mg/Kg
75-35-4	1,1-Dichloroethene	0.0056	U	0.0011	0.0056	mg/Kg
67-64-1	Acetone	0.028	U	0.0087	0.028	mg/Kg
75-15-0	Carbon Disulfide	0.0056	U	0.0012	0.0056	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0056	U	0.0016	0.0056	mg/Kg
79-20-9	Methyl Acetate	0.0056	U	0.0032	0.0056	mg/Kg
75-09-2	Methylene Chloride	0.011	U	0.0059	0.011	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0056	U	0.0014	0.0056	mg/Kg
75-34-3	1,1-Dichloroethane	0.0056	U	0.0010	0.0056	mg/Kg
110-82-7	Cyclohexane	0.0056	U	0.0020	0.0056	mg/Kg
78-93-3	2-Butanone	0.028	U	0.0075	0.028	mg/Kg
56-23-5	Carbon Tetrachloride	0.0056	U	0.00093	0.0056	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0056	U	0.0011	0.0056	mg/Kg
74-97-5	Bromochloromethane	0.0056	U	0.0013	0.0056	mg/Kg
67-66-3	Chloroform	0.0056	U	0.00097	0.0056	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0056	U	0.0012	0.0056	mg/Kg
108-87-2	Methylcyclohexane	0.0056	U	0.0013	0.0056	mg/Kg
71-43-2	Benzene	0.0056	U	0.00095	0.0056	mg/Kg
107-06-2	1,2-Dichloroethane	0.0056	U	0.0014	0.0056	mg/Kg
79-01-6	Trichloroethene	0.0056	U	0.0011	0.0056	mg/Kg
78-87-5	1,2-Dichloropropane	0.0056	U	0.0014	0.0056	mg/Kg
75-27-4	Bromodichloromethane	0.0056	U	0.0011	0.0056	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.028	U	0.0063	0.028	mg/Kg
108-88-3	Toluene	0.0056	U	0.0011	0.0056	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0056	U	0.0011	0.0056	mg/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-7-9-10	SDG No.:	K4421
Lab Sample ID:	K4421-02	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	12.6
Sample Wt/Vol:	5.07 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012103.D	1		08/22/19 11:59	VW082219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-01-5	cis-1,3-Dichloropropene	0.0056	U	0.0012	0.0056	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0056	U	0.0016	0.0056	mg/Kg
591-78-6	2-Hexanone	0.028	U	0.0083	0.028	mg/Kg
124-48-1	Dibromochloromethane	0.0056	U	0.0015	0.0056	mg/Kg
106-93-4	1,2-Dibromoethane	0.0056	U	0.0015	0.0056	mg/Kg
127-18-4	Tetrachloroethene	0.0056	U	0.00078	0.0056	mg/Kg
108-90-7	Chlorobenzene	0.0056	U	0.00089	0.0056	mg/Kg
100-41-4	Ethyl Benzene	0.0056	U	0.00096	0.0056	mg/Kg
179601-23-1	m/p-Xylenes	0.011	U	0.0019	0.011	mg/Kg
95-47-6	o-Xylene	0.0056	U	0.0012	0.0056	mg/Kg
100-42-5	Styrene	0.0056	U	0.0011	0.0056	mg/Kg
75-25-2	Bromoform	0.0056	U	0.0037	0.0056	mg/Kg
98-82-8	Isopropylbenzene	0.0056	U	0.00098	0.0056	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0056	U	0.0012	0.0056	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0056	U	0.0012	0.0056	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0056	U	0.0012	0.0056	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0056	U	0.0014	0.0056	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0056	U	0.0038	0.0056	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0056	U	0.0013	0.0056	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0056	U	0.0014	0.0056	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.1		56 - 120	112%	SPK: 50
1868-53-7	Dibromofluoromethane	54.2		57 - 135	108%	SPK: 50
2037-26-5	Toluene-d8	53.5		67 - 123	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		33 - 141	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	226000	7.95			
540-36-3	1,4-Difluorobenzene	376000	8.84			
3114-55-4	Chlorobenzene-d5	321000	11.63			
3855-82-1	1,4-Dichlorobenzene-d4	136000	13.56			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-7-9-10	SDG No.:	K4421
Lab Sample ID:	K4421-02	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	12.6
Sample Wt/Vol:	5.07 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012103.D	1		08/22/19 11:59	VW082219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-6-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-03	Matrix:	SOIL
Analytical Method:	8015D DRO	% Moisture:	10.1 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG005685.D	5	08/21/19 08:10	08/22/19 11:24	PB122422

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	161		4.63	9.25	mg/Kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.92		37 - 130	48%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-6-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-03	Matrix:	SOIL
Analytical Method:	8015D GRO	% Moisture:	10.1 Decanted:
Sample Wt/Vol:	5.04 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB022063.D	1	08/21/19 16:19	FB082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	0.050	U	0.013	0.050	mg/Kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.0		50 - 150	80%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-6-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-03	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	10.1 Decanted:
Sample Wt/Vol:	30.1 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR040488.D	1	08/21/19 13:10	08/21/19 19:35	PB122439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.019	U	0.0022	0.019	mg/Kg
11104-28-2	Aroclor-1221	0.019	U	0.0074	0.019	mg/Kg
11141-16-5	Aroclor-1232	0.019	U	0.0072	0.019	mg/Kg
53469-21-9	Aroclor-1242	0.019	U	0.0065	0.019	mg/Kg
12672-29-6	Aroclor-1248	0.019	U	0.0061	0.019	mg/Kg
11097-69-1	Aroclor-1254	0.019	U	0.0071	0.019	mg/Kg
37324-23-5	Aroclor-1262	0.019	U	0.0055	0.019	mg/Kg
11100-14-4	Aroclor-1268	0.019	U	0.0047	0.019	mg/Kg
11096-82-5	Aroclor-1260	0.019	U	0.0051	0.019	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	11.5		10 - 166	58%	SPK: 20
2051-24-3	Decachlorobiphenyl	10.2	*	60 - 125	51%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/20/19
Client Sample ID:	SUNSET-PARK-SB-6-COMPRE	SDG No.:	K4421
Lab Sample ID:	K4421-03RE	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	10.1 Decanted:
Sample Wt/Vol:	30.1 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR040506.D	1	08/21/19 13:10	08/22/19 12:08	PB122439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.019	U	0.0022	0.019	mg/Kg
11104-28-2	Aroclor-1221	0.019	U	0.0074	0.019	mg/Kg
11141-16-5	Aroclor-1232	0.019	U	0.0072	0.019	mg/Kg
53469-21-9	Aroclor-1242	0.019	U	0.0065	0.019	mg/Kg
12672-29-6	Aroclor-1248	0.019	U	0.0061	0.019	mg/Kg
11097-69-1	Aroclor-1254	0.019	U	0.0071	0.019	mg/Kg
37324-23-5	Aroclor-1262	0.019	U	0.0055	0.019	mg/Kg
11100-14-4	Aroclor-1268	0.019	U	0.0047	0.019	mg/Kg
11096-82-5	Aroclor-1260	0.019	U	0.0051	0.019	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	13.7		10 - 166	69%	SPK: 20
2051-24-3	Decachlorobiphenyl	10.9	*	60 - 125	55%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-6-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-03	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	10.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF116465.D	1	08/21/19 08:20	08/21/19 15:02	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	0.14	J	0.055	0.37	mg/Kg
208-96-8	Acenaphthylene	0.68		0.067	0.37	mg/Kg
83-32-9	Acenaphthene	0.42		0.075	0.37	mg/Kg
86-73-7	Fluorene	0.25	J	0.057	0.37	mg/Kg
85-01-8	Phenanthrene	0.92		0.063	0.37	mg/Kg
120-12-7	Anthracene	0.72		0.062	0.37	mg/Kg
206-44-0	Fluoranthene	2.70		0.055	0.37	mg/Kg
129-00-0	Pyrene	4.00	E	0.068	0.37	mg/Kg
56-55-3	Benzo(a)anthracene	1.70		0.042	0.37	mg/Kg
218-01-9	Chrysene	1.60		0.047	0.37	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.80		0.054	0.37	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.39		0.063	0.37	mg/Kg
50-32-8	Benzo(a)pyrene	1.10		0.049	0.37	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.63		0.080	0.37	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.17	J	0.058	0.37	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.99		0.068	0.37	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	76.8		31 - 132	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.5		39 - 123	77%	SPK: 100
1718-51-0	Terphenyl-d14	74.3		37 - 115	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	95200	6.8			
1146-65-2	Naphthalene-d8	373000	8.07			
15067-26-2	Acenaphthene-d10	195000	9.83			
1517-22-2	Phenanthrene-d10	298000	11.32			
1719-03-5	Chrysene-d12	213000	13.97			
1520-96-3	Perylene-d12	206000	15.43			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-6-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-03	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	10.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF116465.D	1	08/21/19 08:20	08/21/19 15:02	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-6-COMPDL	SDG No.:	K4421
Lab Sample ID:	K4421-03DL	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	10.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF116467.D	2	08/21/19 08:20	08/21/19 16:20	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	0.73	UD	0.11	0.73	mg/Kg
208-96-8	Acenaphthylene	0.57	JD	0.13	0.73	mg/Kg
83-32-9	Acenaphthene	0.37	JD	0.15	0.73	mg/Kg
86-73-7	Fluorene	0.21	JD	0.11	0.73	mg/Kg
85-01-8	Phenanthrene	0.82	D	0.13	0.73	mg/Kg
120-12-7	Anthracene	0.63	JD	0.12	0.73	mg/Kg
206-44-0	Fluoranthene	2.40	D	0.11	0.73	mg/Kg
129-00-0	Pyrene	3.90	D	0.14	0.73	mg/Kg
56-55-3	Benzo(a)anthracene	1.60	D	0.084	0.73	mg/Kg
218-01-9	Chrysene	1.30	D	0.095	0.73	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.50	D	0.11	0.73	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.48	JD	0.13	0.73	mg/Kg
50-32-8	Benzo(a)pyrene	0.94	D	0.099	0.73	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.50	JD	0.16	0.73	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.73	UD	0.12	0.73	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.77	D	0.14	0.73	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	70.5		31 - 132	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.6		39 - 123	78%	SPK: 100
1718-51-0	Terphenyl-d14	69.0		37 - 115	69%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	126000	6.79			
1146-65-2	Naphthalene-d8	493000	8.07			
15067-26-2	Acenaphthene-d10	250000	9.83			
1517-22-2	Phenanthrene-d10	351000	11.32			
1719-03-5	Chrysene-d12	240000	13.97			
1520-96-3	Perylene-d12	231000	15.43			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-6-COMPDL	SDG No.:	K4421
Lab Sample ID:	K4421-03DL	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	10.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF116467.D	2	08/21/19 08:20	08/21/19 16:20	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-6-7.5-8.0	SDG No.:	K4421
Lab Sample ID:	K4421-04	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	11.5
Sample Wt/Vol:	4.99 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012104.D	1		08/22/19 12:25	VW082219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.0057	U	0.0010	0.0057	mg/Kg
74-87-3	Chloromethane	0.0057	U	0.0020	0.0057	mg/Kg
75-01-4	Vinyl Chloride	0.0057	U	0.0013	0.0057	mg/Kg
74-83-9	Bromomethane	0.0057	U	0.00043	0.0057	mg/Kg
75-00-3	Chloroethane	0.0057	U	0.00065	0.0057	mg/Kg
75-69-4	Trichlorofluoromethane	0.0057	U	0.00073	0.0057	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0057	U	0.00091	0.0057	mg/Kg
75-65-0	Tert butyl alcohol	0.028	U	0.017	0.028	mg/Kg
75-35-4	1,1-Dichloroethene	0.0057	U	0.0011	0.0057	mg/Kg
67-64-1	Acetone	0.024	J	0.0087	0.028	mg/Kg
75-15-0	Carbon Disulfide	0.0042	J	0.0012	0.0057	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0057	U	0.0016	0.0057	mg/Kg
79-20-9	Methyl Acetate	0.0057	U	0.0032	0.0057	mg/Kg
75-09-2	Methylene Chloride	0.011	U	0.0059	0.011	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0057	U	0.0014	0.0057	mg/Kg
75-34-3	1,1-Dichloroethane	0.0057	U	0.0010	0.0057	mg/Kg
110-82-7	Cyclohexane	0.0057	U	0.0020	0.0057	mg/Kg
78-93-3	2-Butanone	0.028	U	0.0076	0.028	mg/Kg
56-23-5	Carbon Tetrachloride	0.0057	U	0.00093	0.0057	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0057	U	0.0011	0.0057	mg/Kg
74-97-5	Bromochloromethane	0.0057	U	0.0014	0.0057	mg/Kg
67-66-3	Chloroform	0.0057	U	0.00098	0.0057	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0057	U	0.0012	0.0057	mg/Kg
108-87-2	Methylcyclohexane	0.0057	U	0.0013	0.0057	mg/Kg
71-43-2	Benzene	0.0057	U	0.00095	0.0057	mg/Kg
107-06-2	1,2-Dichloroethane	0.0057	U	0.0014	0.0057	mg/Kg
79-01-6	Trichloroethene	0.0057	U	0.0011	0.0057	mg/Kg
78-87-5	1,2-Dichloropropane	0.0057	U	0.0014	0.0057	mg/Kg
75-27-4	Bromodichloromethane	0.0057	U	0.0011	0.0057	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.028	U	0.0063	0.028	mg/Kg
108-88-3	Toluene	0.0057	U	0.0011	0.0057	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0057	U	0.0011	0.0057	mg/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-6-7.5-8.0	SDG No.:	K4421
Lab Sample ID:	K4421-04	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	11.5
Sample Wt/Vol:	4.99 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012104.D	1		08/22/19 12:25	VW082219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-01-5	cis-1,3-Dichloropropene	0.0057	U	0.0012	0.0057	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0057	U	0.0016	0.0057	mg/Kg
591-78-6	2-Hexanone	0.028	U	0.0084	0.028	mg/Kg
124-48-1	Dibromochloromethane	0.0057	U	0.0015	0.0057	mg/Kg
106-93-4	1,2-Dibromoethane	0.0057	U	0.0015	0.0057	mg/Kg
127-18-4	Tetrachloroethene	0.0057	U	0.00079	0.0057	mg/Kg
108-90-7	Chlorobenzene	0.0057	U	0.00089	0.0057	mg/Kg
100-41-4	Ethyl Benzene	0.0057	U	0.00097	0.0057	mg/Kg
179601-23-1	m/p-Xylenes	0.011	U	0.0019	0.011	mg/Kg
95-47-6	o-Xylene	0.0057	U	0.0012	0.0057	mg/Kg
100-42-5	Styrene	0.0057	U	0.0011	0.0057	mg/Kg
75-25-2	Bromoform	0.0057	U	0.0037	0.0057	mg/Kg
98-82-8	Isopropylbenzene	0.0057	U	0.00098	0.0057	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0057	U	0.0012	0.0057	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0057	U	0.0012	0.0057	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0057	U	0.0012	0.0057	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0057	U	0.0014	0.0057	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0057	U	0.0038	0.0057	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0057	U	0.0013	0.0057	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0057	U	0.0014	0.0057	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.4		56 - 120	111%	SPK: 50
1868-53-7	Dibromofluoromethane	54.0		57 - 135	108%	SPK: 50
2037-26-5	Toluene-d8	53.0		67 - 123	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.0		33 - 141	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	217000	7.95			
540-36-3	1,4-Difluorobenzene	366000	8.84			
3114-55-4	Chlorobenzene-d5	305000	11.63			
3855-82-1	1,4-Dichlorobenzene-d4	129000	13.56			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-6-7.5-8.0	SDG No.:	K4421
Lab Sample ID:	K4421-04	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	11.5
Sample Wt/Vol:	4.99 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012104.D	1		08/22/19 12:25	VW082219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-5-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-05	Matrix:	SOIL
Analytical Method:	8015D DRO	% Moisture:	19.3 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG005684.D	2	08/21/19 08:10	08/22/19 10:53	PB122422

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	42.3		2.06	4.12	mg/Kg
SURROGATES						
16416-32-3	Tetracosane-d50	5.91		37 - 130	59%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-5-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-05	Matrix:	SOIL
Analytical Method:	8015D GRO	% Moisture:	19.3 Decanted:
Sample Wt/Vol:	4.98 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB022064.D	1	08/21/19 16:50	FB082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	0.027	J	0.015	0.056	mg/Kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	15.7		50 - 150	79%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-5-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-05	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	19.3 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR040489.D	1	08/21/19 13:10	08/21/19 19:49	PB122439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.021	U	0.0025	0.021	mg/Kg
11104-28-2	Aroclor-1221	0.021	U	0.0083	0.021	mg/Kg
11141-16-5	Aroclor-1232	0.021	U	0.0081	0.021	mg/Kg
53469-21-9	Aroclor-1242	0.021	U	0.0073	0.021	mg/Kg
12672-29-6	Aroclor-1248	0.021	U	0.0068	0.021	mg/Kg
11097-69-1	Aroclor-1254	0.021	U	0.0080	0.021	mg/Kg
37324-23-5	Aroclor-1262	0.021	U	0.0062	0.021	mg/Kg
11100-14-4	Aroclor-1268	0.021	U	0.0053	0.021	mg/Kg
11096-82-5	Aroclor-1260	0.021	U	0.0057	0.021	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	8.15		10 - 166	41%	SPK: 20
2051-24-3	Decachlorobiphenyl	8.18	*	60 - 125	41%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/20/19
Client Sample ID:	SUNSET-PARK-SB-5-COMPRE	SDG No.:	K4421
Lab Sample ID:	K4421-05RE	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	19.3 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR040512.D	1	08/21/19 13:10	08/22/19 13:36	PB122439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.021	U	0.0025	0.021	mg/Kg
11104-28-2	Aroclor-1221	0.021	U	0.0083	0.021	mg/Kg
11141-16-5	Aroclor-1232	0.021	U	0.0081	0.021	mg/Kg
53469-21-9	Aroclor-1242	0.021	U	0.0073	0.021	mg/Kg
12672-29-6	Aroclor-1248	0.021	U	0.0068	0.021	mg/Kg
11097-69-1	Aroclor-1254	0.021	U	0.0080	0.021	mg/Kg
37324-23-5	Aroclor-1262	0.021	U	0.0062	0.021	mg/Kg
11100-14-4	Aroclor-1268	0.021	U	0.0053	0.021	mg/Kg
11096-82-5	Aroclor-1260	0.021	U	0.0057	0.021	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	12.5		10 - 166	62%	SPK: 20
2051-24-3	Decachlorobiphenyl	8.11	*	60 - 125	41%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-5-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-05	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	19.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF116464.D	1	08/21/19 08:20	08/21/19 14:35	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	0.41	U	0.062	0.41	mg/Kg
208-96-8	Acenaphthylene	0.41	U	0.074	0.41	mg/Kg
83-32-9	Acenaphthene	0.41	U	0.084	0.41	mg/Kg
86-73-7	Fluorene	0.41	U	0.063	0.41	mg/Kg
85-01-8	Phenanthrene	0.39	J	0.071	0.41	mg/Kg
120-12-7	Anthracene	0.10	J	0.069	0.41	mg/Kg
206-44-0	Fluoranthene	0.57		0.061	0.41	mg/Kg
129-00-0	Pyrene	0.49		0.075	0.41	mg/Kg
56-55-3	Benzo(a)anthracene	0.28	J	0.047	0.41	mg/Kg
218-01-9	Chrysene	0.26	J	0.053	0.41	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.31	J	0.060	0.41	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.12	J	0.070	0.41	mg/Kg
50-32-8	Benzo(a)pyrene	0.26	J	0.055	0.41	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.11	J	0.089	0.41	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.41	U	0.065	0.41	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.13	J	0.076	0.41	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	70.7		31 - 132	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.3		39 - 123	73%	SPK: 100
1718-51-0	Terphenyl-d14	66.0		37 - 115	66%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	88500	6.8			
1146-65-2	Naphthalene-d8	349000	8.07			
15067-26-2	Acenaphthene-d10	180000	9.83			
1517-22-2	Phenanthrene-d10	298000	11.32			
1719-03-5	Chrysene-d12	230000	13.96			
1520-96-3	Perylene-d12	218000	15.42			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-5-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-05	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	19.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF116464.D	1	08/21/19 08:20	08/21/19 14:35	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-5-9.2-9.7	SDG No.:	K4421
Lab Sample ID:	K4421-06	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	18.6
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012105.D	1		08/22/19 12:51	VW082219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.0061	U	0.0011	0.0061	mg/Kg
74-87-3	Chloromethane	0.0061	U	0.0022	0.0061	mg/Kg
75-01-4	Vinyl Chloride	0.0061	U	0.0014	0.0061	mg/Kg
74-83-9	Bromomethane	0.0061	U	0.00046	0.0061	mg/Kg
75-00-3	Chloroethane	0.0061	U	0.00071	0.0061	mg/Kg
75-69-4	Trichlorofluoromethane	0.0061	U	0.00079	0.0061	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0061	U	0.00098	0.0061	mg/Kg
75-65-0	Tert butyl alcohol	0.031	U	0.019	0.031	mg/Kg
75-35-4	1,1-Dichloroethene	0.0061	U	0.0012	0.0061	mg/Kg
67-64-1	Acetone	0.048		0.0094	0.031	mg/Kg
75-15-0	Carbon Disulfide	0.0013	J	0.0013	0.0061	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0061	U	0.0017	0.0061	mg/Kg
79-20-9	Methyl Acetate	0.0061	U	0.0034	0.0061	mg/Kg
75-09-2	Methylene Chloride	0.012	U	0.0064	0.012	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0061	U	0.0015	0.0061	mg/Kg
75-34-3	1,1-Dichloroethane	0.0061	U	0.0011	0.0061	mg/Kg
110-82-7	Cyclohexane	0.0061	U	0.0022	0.0061	mg/Kg
78-93-3	2-Butanone	0.013	J	0.0082	0.031	mg/Kg
56-23-5	Carbon Tetrachloride	0.0061	U	0.0010	0.0061	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0061	U	0.0012	0.0061	mg/Kg
74-97-5	Bromochloromethane	0.0061	U	0.0015	0.0061	mg/Kg
67-66-3	Chloroform	0.0061	U	0.0011	0.0061	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0061	U	0.0013	0.0061	mg/Kg
108-87-2	Methylcyclohexane	0.0061	U	0.0014	0.0061	mg/Kg
71-43-2	Benzene	0.0061	U	0.0010	0.0061	mg/Kg
107-06-2	1,2-Dichloroethane	0.0061	U	0.0015	0.0061	mg/Kg
79-01-6	Trichloroethene	0.0061	U	0.0011	0.0061	mg/Kg
78-87-5	1,2-Dichloropropane	0.0061	U	0.0015	0.0061	mg/Kg
75-27-4	Bromodichloromethane	0.0061	U	0.0012	0.0061	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.031	U	0.0069	0.031	mg/Kg
108-88-3	Toluene	0.0061	U	0.0012	0.0061	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0061	U	0.0012	0.0061	mg/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-5-9.2-9.7	SDG No.:	K4421
Lab Sample ID:	K4421-06	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	18.6
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012105.D	1		08/22/19 12:51	VW082219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-01-5	cis-1,3-Dichloropropene	0.0061	U	0.0013	0.0061	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0061	U	0.0017	0.0061	mg/Kg
591-78-6	2-Hexanone	0.031	U	0.0090	0.031	mg/Kg
124-48-1	Dibromochloromethane	0.0061	U	0.0016	0.0061	mg/Kg
106-93-4	1,2-Dibromoethane	0.0061	U	0.0016	0.0061	mg/Kg
127-18-4	Tetrachloroethene	0.0061	U	0.00085	0.0061	mg/Kg
108-90-7	Chlorobenzene	0.0061	U	0.00097	0.0061	mg/Kg
100-41-4	Ethyl Benzene	0.0061	U	0.0010	0.0061	mg/Kg
179601-23-1	m/p-Xylenes	0.012	U	0.0020	0.012	mg/Kg
95-47-6	o-Xylene	0.0061	U	0.0013	0.0061	mg/Kg
100-42-5	Styrene	0.0061	U	0.0012	0.0061	mg/Kg
75-25-2	Bromoform	0.0061	U	0.0040	0.0061	mg/Kg
98-82-8	Isopropylbenzene	0.0061	U	0.0011	0.0061	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0061	U	0.0013	0.0061	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0061	U	0.0013	0.0061	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0061	U	0.0013	0.0061	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0061	U	0.0016	0.0061	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0061	U	0.0041	0.0061	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0061	U	0.0014	0.0061	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0061	U	0.0016	0.0061	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.1		56 - 120	108%	SPK: 50
1868-53-7	Dibromofluoromethane	54.1		57 - 135	108%	SPK: 50
2037-26-5	Toluene-d8	53.9		67 - 123	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		33 - 141	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	228000	7.95			
540-36-3	1,4-Difluorobenzene	378000	8.84			
3114-55-4	Chlorobenzene-d5	323000	11.63			
3855-82-1	1,4-Dichlorobenzene-d4	133000	13.56			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-5-9.2-9.7	SDG No.:	K4421
Lab Sample ID:	K4421-06	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	18.6
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012105.D	1		08/22/19 12:51	VW082219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-4-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-07	Matrix:	SOIL
Analytical Method:	8015D DRO	% Moisture:	21.4 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG005688.D	2	08/21/19 08:10	08/22/19 13:03	PB122422

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	55.0		2.12	4.24	mg/Kg
SURROGATES						
16416-32-3	Tetracosane-d50	6.32		37 - 130	63%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/20/19
Client Sample ID:	SUNSET-PARK-SB-4-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-07	Matrix:	SOIL
Analytical Method:	8015D GRO	% Moisture:	21.4 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB022123.D	1	08/23/19 15:30	FB082319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	0.017	J	0.015	0.057	mg/Kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.6		50 - 150	98%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-4-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-07	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	21.4 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR040490.D	1	08/21/19 13:10	08/21/19 20:04	PB122439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.022	U	0.0025	0.022	mg/Kg
11104-28-2	Aroclor-1221	0.022	U	0.0085	0.022	mg/Kg
11141-16-5	Aroclor-1232	0.022	U	0.0083	0.022	mg/Kg
53469-21-9	Aroclor-1242	0.022	U	0.0075	0.022	mg/Kg
12672-29-6	Aroclor-1248	0.022	U	0.0070	0.022	mg/Kg
11097-69-1	Aroclor-1254	0.022	U	0.0082	0.022	mg/Kg
37324-23-5	Aroclor-1262	0.022	U	0.0063	0.022	mg/Kg
11100-14-4	Aroclor-1268	0.022	U	0.0054	0.022	mg/Kg
11096-82-5	Aroclor-1260	0.022	U	0.0059	0.022	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	10.3		10 - 166	51%	SPK: 20
2051-24-3	Decachlorobiphenyl	9.38	*	60 - 125	47%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/20/19
Client Sample ID:	SUNSET-PARK-SB-4-COMPRE	SDG No.:	K4421
Lab Sample ID:	K4421-07RE	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	21.4 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR040508.D	1	08/21/19 13:10	08/22/19 12:38	PB122439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.022	U	0.0025	0.022	mg/Kg
11104-28-2	Aroclor-1221	0.022	U	0.0085	0.022	mg/Kg
11141-16-5	Aroclor-1232	0.022	U	0.0083	0.022	mg/Kg
53469-21-9	Aroclor-1242	0.022	U	0.0075	0.022	mg/Kg
12672-29-6	Aroclor-1248	0.022	U	0.0070	0.022	mg/Kg
11097-69-1	Aroclor-1254	0.022	U	0.0082	0.022	mg/Kg
37324-23-5	Aroclor-1262	0.022	U	0.0063	0.022	mg/Kg
11100-14-4	Aroclor-1268	0.022	U	0.0054	0.022	mg/Kg
11096-82-5	Aroclor-1260	0.022	U	0.0059	0.022	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	13.9		10 - 166	70%	SPK: 20
2051-24-3	Decachlorobiphenyl	9.40	*	60 - 125	47%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-4-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-07	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	21.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF116463.D	1	08/21/19 08:20	08/21/19 14:08	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	0.42	U	0.063	0.42	mg/Kg
208-96-8	Acenaphthylene	0.42	U	0.076	0.42	mg/Kg
83-32-9	Acenaphthene	0.42	U	0.086	0.42	mg/Kg
86-73-7	Fluorene	0.42	U	0.065	0.42	mg/Kg
85-01-8	Phenanthrene	0.42	U	0.073	0.42	mg/Kg
120-12-7	Anthracene	0.42	U	0.071	0.42	mg/Kg
206-44-0	Fluoranthene	0.14	J	0.063	0.42	mg/Kg
129-00-0	Pyrene	0.13	J	0.077	0.42	mg/Kg
56-55-3	Benzo(a)anthracene	0.42	U	0.048	0.42	mg/Kg
218-01-9	Chrysene	0.42	U	0.054	0.42	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.11	J	0.062	0.42	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.42	U	0.072	0.42	mg/Kg
50-32-8	Benzo(a)pyrene	0.42	U	0.056	0.42	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.42	U	0.092	0.42	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.42	U	0.067	0.42	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.42	U	0.078	0.42	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	72.4		31 - 132	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.0		39 - 123	78%	SPK: 100
1718-51-0	Terphenyl-d14	67.1		37 - 115	67%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	105000	6.8			
1146-65-2	Naphthalene-d8	410000	8.07			
15067-26-2	Acenaphthene-d10	209000	9.83			
1517-22-2	Phenanthrene-d10	302000	11.32			
1719-03-5	Chrysene-d12	232000	13.96			
1520-96-3	Perylene-d12	187000	15.43			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-4-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-07	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	21.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF116463.D	1	08/21/19 08:20	08/21/19 14:08	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-4-7.5-8.0	SDG No.:	K4421
Lab Sample ID:	K4421-08	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	13.1
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012055.D	1		08/21/19 02:33	VW082019

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.0058	U	0.0010	0.0058	mg/Kg
74-87-3	Chloromethane	0.0058	U	0.0021	0.0058	mg/Kg
75-01-4	Vinyl Chloride	0.0058	U	0.0013	0.0058	mg/Kg
74-83-9	Bromomethane	0.0058	U	0.00044	0.0058	mg/Kg
75-00-3	Chloroethane	0.0058	U	0.00066	0.0058	mg/Kg
75-69-4	Trichlorofluoromethane	0.0058	U	0.00074	0.0058	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0058	U	0.00092	0.0058	mg/Kg
75-65-0	Tert butyl alcohol	0.029	U	0.018	0.029	mg/Kg
75-35-4	1,1-Dichloroethene	0.0058	U	0.0011	0.0058	mg/Kg
67-64-1	Acetone	0.042		0.0088	0.029	mg/Kg
75-15-0	Carbon Disulfide	0.0045	J	0.0012	0.0058	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0058	U	0.0016	0.0058	mg/Kg
79-20-9	Methyl Acetate	0.0058	U	0.0032	0.0058	mg/Kg
75-09-2	Methylene Chloride	0.012	U	0.0060	0.012	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0058	U	0.0014	0.0058	mg/Kg
75-34-3	1,1-Dichloroethane	0.0058	U	0.0010	0.0058	mg/Kg
110-82-7	Cyclohexane	0.0058	U	0.0021	0.0058	mg/Kg
78-93-3	2-Butanone	0.011	J	0.0077	0.029	mg/Kg
56-23-5	Carbon Tetrachloride	0.0058	U	0.00095	0.0058	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0058	U	0.0011	0.0058	mg/Kg
74-97-5	Bromochloromethane	0.0058	U	0.0014	0.0058	mg/Kg
67-66-3	Chloroform	0.0058	U	0.00099	0.0058	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0058	U	0.0012	0.0058	mg/Kg
108-87-2	Methylcyclohexane	0.0058	U	0.0014	0.0058	mg/Kg
71-43-2	Benzene	0.0058	U	0.00096	0.0058	mg/Kg
107-06-2	1,2-Dichloroethane	0.0058	U	0.0014	0.0058	mg/Kg
79-01-6	Trichloroethene	0.0058	U	0.0011	0.0058	mg/Kg
78-87-5	1,2-Dichloropropane	0.0058	U	0.0014	0.0058	mg/Kg
75-27-4	Bromodichloromethane	0.0058	U	0.0011	0.0058	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.029	U	0.0064	0.029	mg/Kg
108-88-3	Toluene	0.0058	U	0.0011	0.0058	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0058	U	0.0012	0.0058	mg/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-4-7.5-8.0	SDG No.:	K4421
Lab Sample ID:	K4421-08	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	13.1
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012055.D	1		08/21/19 02:33	VW082019

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-01-5	cis-1,3-Dichloropropene	0.0058	U	0.0012	0.0058	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0058	U	0.0016	0.0058	mg/Kg
591-78-6	2-Hexanone	0.029	U	0.0085	0.029	mg/Kg
124-48-1	Dibromochloromethane	0.0058	U	0.0015	0.0058	mg/Kg
106-93-4	1,2-Dibromoethane	0.0058	U	0.0015	0.0058	mg/Kg
127-18-4	Tetrachloroethene	0.0058	U	0.00080	0.0058	mg/Kg
108-90-7	Chlorobenzene	0.0058	U	0.00091	0.0058	mg/Kg
100-41-4	Ethyl Benzene	0.0058	U	0.00098	0.0058	mg/Kg
179601-23-1	m/p-Xylenes	0.012	U	0.0019	0.012	mg/Kg
95-47-6	o-Xylene	0.0058	U	0.0013	0.0058	mg/Kg
100-42-5	Styrene	0.0058	U	0.0011	0.0058	mg/Kg
75-25-2	Bromoform	0.0058	U	0.0038	0.0058	mg/Kg
98-82-8	Isopropylbenzene	0.0058	U	0.0010	0.0058	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0058	U	0.0013	0.0058	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0058	U	0.0012	0.0058	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0058	U	0.0012	0.0058	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0058	U	0.0015	0.0058	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0058	U	0.0038	0.0058	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0058	U	0.0013	0.0058	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0058	U	0.0015	0.0058	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		56 - 120	107%	SPK: 50
1868-53-7	Dibromofluoromethane	53.7		57 - 135	107%	SPK: 50
2037-26-5	Toluene-d8	53.2		67 - 123	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		33 - 141	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	252000	7.95			
540-36-3	1,4-Difluorobenzene	417000	8.84			
3114-55-4	Chlorobenzene-d5	351000	11.63			
3855-82-1	1,4-Dichlorobenzene-d4	148000	13.56			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-4-7.5-8.0	SDG No.:	K4421
Lab Sample ID:	K4421-08	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	13.1
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012055.D	1		08/21/19 02:33	VW082019

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-3-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-09	Matrix:	SOIL
Analytical Method:	8015D DRO	% Moisture:	10.5 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG005675.D	10	08/21/19 08:10	08/21/19 21:08	PB122422

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	172		9.31	18.6	mg/Kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.34		37 - 130	67%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-3-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-09	Matrix:	SOIL
Analytical Method:	8015D GRO	% Moisture:	10.5 Decanted:
Sample Wt/Vol:	5.07 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB022066.D	1	08/21/19 17:53	FB082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	0.028	J	0.013	0.050	mg/Kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.8		50 - 150	84%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-3-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-09	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	10.5 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR040491.D	1	08/21/19 13:10	08/21/19 20:18	PB122439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.019	U	0.0022	0.019	mg/Kg
11104-28-2	Aroclor-1221	0.019	U	0.0075	0.019	mg/Kg
11141-16-5	Aroclor-1232	0.019	U	0.0073	0.019	mg/Kg
53469-21-9	Aroclor-1242	0.019	U	0.0066	0.019	mg/Kg
12672-29-6	Aroclor-1248	0.019	U	0.0061	0.019	mg/Kg
11097-69-1	Aroclor-1254	0.019	U	0.0072	0.019	mg/Kg
37324-23-5	Aroclor-1262	0.019	U	0.0056	0.019	mg/Kg
11100-14-4	Aroclor-1268	0.019	U	0.0048	0.019	mg/Kg
11096-82-5	Aroclor-1260	0.018	JP	0.0051	0.019	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	13.1		10 - 166	65%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.7	*	60 - 125	58%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/20/19
Client Sample ID:	SUNSET-PARK-SB-3-COMPRE	SDG No.:	K4421
Lab Sample ID:	K4421-09RE	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	10.5 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR040509.D	1	08/21/19 13:10	08/22/19 12:52	PB122439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.019	U	0.0022	0.019	mg/Kg
11104-28-2	Aroclor-1221	0.019	U	0.0075	0.019	mg/Kg
11141-16-5	Aroclor-1232	0.019	U	0.0073	0.019	mg/Kg
53469-21-9	Aroclor-1242	0.019	U	0.0066	0.019	mg/Kg
12672-29-6	Aroclor-1248	0.019	U	0.0061	0.019	mg/Kg
11097-69-1	Aroclor-1254	0.019	U	0.0072	0.019	mg/Kg
37324-23-5	Aroclor-1262	0.019	U	0.0056	0.019	mg/Kg
11100-14-4	Aroclor-1268	0.019	U	0.0048	0.019	mg/Kg
11096-82-5	Aroclor-1260	0.019	JP	0.0051	0.019	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.6		10 - 166	78%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.1		60 - 125	61%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-3-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-09	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	10.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF116462.D	5	08/21/19 08:20	08/21/19 13:41	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1.80	U	0.28	1.80	mg/Kg
208-96-8	Acenaphthylene	1.80	U	0.33	1.80	mg/Kg
83-32-9	Acenaphthene	0.98	J	0.38	1.80	mg/Kg
86-73-7	Fluorene	0.86	J	0.28	1.80	mg/Kg
85-01-8	Phenanthrene	5.60		0.32	1.80	mg/Kg
120-12-7	Anthracene	1.40	J	0.31	1.80	mg/Kg
206-44-0	Fluoranthene	4.20		0.28	1.80	mg/Kg
129-00-0	Pyrene	3.30		0.34	1.80	mg/Kg
56-55-3	Benzo(a)anthracene	1.70	J	0.21	1.80	mg/Kg
218-01-9	Chrysene	1.50	J	0.24	1.80	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.70	J	0.27	1.80	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.51	J	0.31	1.80	mg/Kg
50-32-8	Benzo(a)pyrene	1.30	J	0.25	1.80	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.52	J	0.40	1.80	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	1.80	U	0.29	1.80	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.52	J	0.34	1.80	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	65.4		31 - 132	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.9		39 - 123	82%	SPK: 100
1718-51-0	Terphenyl-d14	73.6		37 - 115	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	82400	6.79			
1146-65-2	Naphthalene-d8	339000	8.07			
15067-26-2	Acenaphthene-d10	181000	9.83			
1517-22-2	Phenanthrene-d10	310000	11.32			
1719-03-5	Chrysene-d12	240000	13.96			
1520-96-3	Perylene-d12	242000	15.42			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-3-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-09	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	10.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF116462.D	5	08/21/19 08:20	08/21/19 13:41	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-3-8.0-8.5	SDG No.:	K4421
Lab Sample ID:	K4421-10	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	11.5
Sample Wt/Vol:	5.1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012078.D	1		08/21/19 19:01	VW082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.0055	U	0.0010	0.0055	mg/Kg
74-87-3	Chloromethane	0.0055	U	0.0020	0.0055	mg/Kg
75-01-4	Vinyl Chloride	0.0055	U	0.0012	0.0055	mg/Kg
74-83-9	Bromomethane	0.0055	U	0.00042	0.0055	mg/Kg
75-00-3	Chloroethane	0.0055	U	0.00064	0.0055	mg/Kg
75-69-4	Trichlorofluoromethane	0.0055	U	0.00072	0.0055	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0055	U	0.00089	0.0055	mg/Kg
75-65-0	Tert butyl alcohol	0.028	U	0.017	0.028	mg/Kg
75-35-4	1,1-Dichloroethene	0.0055	U	0.0011	0.0055	mg/Kg
67-64-1	Acetone	0.025	J	0.0085	0.028	mg/Kg
75-15-0	Carbon Disulfide	0.0055	U	0.0012	0.0055	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0055	U	0.0015	0.0055	mg/Kg
79-20-9	Methyl Acetate	0.0055	U	0.0031	0.0055	mg/Kg
75-09-2	Methylene Chloride	0.011	U	0.0058	0.011	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0055	U	0.0014	0.0055	mg/Kg
75-34-3	1,1-Dichloroethane	0.0055	U	0.0010	0.0055	mg/Kg
110-82-7	Cyclohexane	0.0037	J	0.0020	0.0055	mg/Kg
78-93-3	2-Butanone	0.028	U	0.0074	0.028	mg/Kg
56-23-5	Carbon Tetrachloride	0.0055	U	0.00091	0.0055	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0055	U	0.0011	0.0055	mg/Kg
74-97-5	Bromochloromethane	0.0055	U	0.0013	0.0055	mg/Kg
67-66-3	Chloroform	0.0055	U	0.00096	0.0055	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0055	U	0.0012	0.0055	mg/Kg
108-87-2	Methylcyclohexane	0.0040	J	0.0013	0.0055	mg/Kg
71-43-2	Benzene	0.0055	U	0.00093	0.0055	mg/Kg
107-06-2	1,2-Dichloroethane	0.0055	U	0.0013	0.0055	mg/Kg
79-01-6	Trichloroethene	0.0055	U	0.0010	0.0055	mg/Kg
78-87-5	1,2-Dichloropropane	0.0055	U	0.0014	0.0055	mg/Kg
75-27-4	Bromodichloromethane	0.0055	U	0.0011	0.0055	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.028	U	0.0062	0.028	mg/Kg
108-88-3	Toluene	0.0055	U	0.0011	0.0055	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0055	U	0.0011	0.0055	mg/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-3-8.0-8.5	SDG No.:	K4421
Lab Sample ID:	K4421-10	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	11.5
Sample Wt/Vol:	5.1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012078.D	1		08/21/19 19:01	VW082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-01-5	cis-1,3-Dichloropropene	0.0055	U	0.0012	0.0055	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0055	U	0.0016	0.0055	mg/Kg
591-78-6	2-Hexanone	0.028	U	0.0082	0.028	mg/Kg
124-48-1	Dibromochloromethane	0.0055	U	0.0015	0.0055	mg/Kg
106-93-4	1,2-Dibromoethane	0.0055	U	0.0014	0.0055	mg/Kg
127-18-4	Tetrachloroethene	0.0055	U	0.00077	0.0055	mg/Kg
108-90-7	Chlorobenzene	0.0055	U	0.00087	0.0055	mg/Kg
100-41-4	Ethyl Benzene	0.0055	U	0.00095	0.0055	mg/Kg
179601-23-1	m/p-Xylenes	0.011	U	0.0018	0.011	mg/Kg
95-47-6	o-Xylene	0.0055	U	0.0012	0.0055	mg/Kg
100-42-5	Styrene	0.0055	U	0.0011	0.0055	mg/Kg
75-25-2	Bromoform	0.0055	U	0.0036	0.0055	mg/Kg
98-82-8	Isopropylbenzene	0.0055	U	0.00096	0.0055	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0055	U	0.0012	0.0055	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0055	U	0.0012	0.0055	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0055	U	0.0012	0.0055	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0055	U	0.0014	0.0055	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0055	U	0.0037	0.0055	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0055	U	0.0012	0.0055	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0055	U	0.0014	0.0055	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.3		56 - 120	107%	SPK: 50
1868-53-7	Dibromofluoromethane	53.9		57 - 135	108%	SPK: 50
2037-26-5	Toluene-d8	53.3		67 - 123	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		33 - 141	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	242000	7.95			
540-36-3	1,4-Difluorobenzene	404000	8.84			
3114-55-4	Chlorobenzene-d5	337000	11.63			
3855-82-1	1,4-Dichlorobenzene-d4	139000	13.56			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-3-8.0-8.5	SDG No.:	K4421
Lab Sample ID:	K4421-10	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	11.5
Sample Wt/Vol:	5.1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012078.D	1		08/21/19 19:01	VW082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-2-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-11	Matrix:	SOIL
Analytical Method:	8015D DRO	% Moisture:	8.2 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG005674.D	10	08/21/19 08:10	08/21/19 20:38	PB122422

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	195		9.05	18.2	mg/Kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.31		37 - 130	66%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-2-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-11	Matrix:	SOIL
Analytical Method:	8015D GRO	% Moisture:	8.2 Decanted:
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB022067.D	1	08/21/19 18:24	FB082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	0.036	J	0.013	0.049	mg/Kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	12.6		50 - 150	63%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-2-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-11	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	8.2 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR040492.D	1	08/21/19 13:10	08/21/19 20:33	PB122439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.019	U	0.0022	0.019	mg/Kg
11104-28-2	Aroclor-1221	0.019	U	0.0073	0.019	mg/Kg
11141-16-5	Aroclor-1232	0.019	U	0.0071	0.019	mg/Kg
53469-21-9	Aroclor-1242	0.019	U	0.0064	0.019	mg/Kg
12672-29-6	Aroclor-1248	0.019	U	0.0060	0.019	mg/Kg
11097-69-1	Aroclor-1254	0.019	U	0.0070	0.019	mg/Kg
37324-23-5	Aroclor-1262	0.019	U	0.0054	0.019	mg/Kg
11100-14-4	Aroclor-1268	0.019	U	0.0046	0.019	mg/Kg
11096-82-5	Aroclor-1260	0.075	P	0.0050	0.019	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	14.8		10 - 166	74%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.5		60 - 125	63%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/20/19
Client Sample ID:	SUNSET-PARK-SB-2-COMPRE	SDG No.:	K4421
Lab Sample ID:	K4421-11RE	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	8.2 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR040510.D	1	08/21/19 13:10	08/22/19 13:07	PB122439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.019	U	0.0022	0.019	mg/Kg
11104-28-2	Aroclor-1221	0.019	U	0.0073	0.019	mg/Kg
11141-16-5	Aroclor-1232	0.019	U	0.0071	0.019	mg/Kg
53469-21-9	Aroclor-1242	0.019	U	0.0064	0.019	mg/Kg
12672-29-6	Aroclor-1248	0.019	U	0.0060	0.019	mg/Kg
11097-69-1	Aroclor-1254	0.019	U	0.0070	0.019	mg/Kg
37324-23-5	Aroclor-1262	0.019	U	0.0054	0.019	mg/Kg
11100-14-4	Aroclor-1268	0.019	U	0.0046	0.019	mg/Kg
11096-82-5	Aroclor-1260	0.082	P	0.0050	0.019	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.5		10 - 166	77%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.3		60 - 125	61%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-2-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-11	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	8.2
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF116461.D	5	08/21/19 08:20	08/21/19 13:14	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1.80	U	0.27	1.80	mg/Kg
208-96-8	Acenaphthylene	1.80	U	0.33	1.80	mg/Kg
83-32-9	Acenaphthene	1.80	U	0.37	1.80	mg/Kg
86-73-7	Fluorene	1.80	U	0.28	1.80	mg/Kg
85-01-8	Phenanthrene	1.80	U	0.31	1.80	mg/Kg
120-12-7	Anthracene	1.80	U	0.30	1.80	mg/Kg
206-44-0	Fluoranthene	0.68	J	0.27	1.80	mg/Kg
129-00-0	Pyrene	0.75	J	0.33	1.80	mg/Kg
56-55-3	Benzo(a)anthracene	0.40	J	0.20	1.80	mg/Kg
218-01-9	Chrysene	0.41	J	0.23	1.80	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.55	J	0.26	1.80	mg/Kg
207-08-9	Benzo(k)fluoranthene	1.80	U	0.31	1.80	mg/Kg
50-32-8	Benzo(a)pyrene	0.37	J	0.24	1.80	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.80	U	0.39	1.80	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	1.80	U	0.28	1.80	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.80	U	0.33	1.80	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	59.7		31 - 132	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.2		39 - 123	74%	SPK: 100
1718-51-0	Terphenyl-d14	67.2		37 - 115	67%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	88100	6.79			
1146-65-2	Naphthalene-d8	362000	8.07			
15067-26-2	Acenaphthene-d10	194000	9.83			
1517-22-2	Phenanthrene-d10	331000	11.32			
1719-03-5	Chrysene-d12	234000	13.96			
1520-96-3	Perylene-d12	248000	15.42			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-2-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-11	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	8.2
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF116461.D	5	08/21/19 08:20	08/21/19 13:14	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-2-9.5-10.0	SDG No.:	K4421
Lab Sample ID:	K4421-12	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	8.5
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012079.D	1		08/21/19 19:26	VW082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.0055	U	0.00099	0.0055	mg/Kg
74-87-3	Chloromethane	0.0055	U	0.0019	0.0055	mg/Kg
75-01-4	Vinyl Chloride	0.0055	U	0.0012	0.0055	mg/Kg
74-83-9	Bromomethane	0.0055	U	0.00041	0.0055	mg/Kg
75-00-3	Chloroethane	0.0055	U	0.00063	0.0055	mg/Kg
75-69-4	Trichlorofluoromethane	0.0055	U	0.00071	0.0055	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0055	U	0.00088	0.0055	mg/Kg
75-65-0	Tert butyl alcohol	0.027	U	0.017	0.027	mg/Kg
75-35-4	1,1-Dichloroethene	0.0055	U	0.0011	0.0055	mg/Kg
67-64-1	Acetone	0.027	U	0.0084	0.027	mg/Kg
75-15-0	Carbon Disulfide	0.0055	U	0.0012	0.0055	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0055	U	0.0015	0.0055	mg/Kg
79-20-9	Methyl Acetate	0.0055	U	0.0031	0.0055	mg/Kg
75-09-2	Methylene Chloride	0.011	U	0.0057	0.011	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0055	U	0.0014	0.0055	mg/Kg
75-34-3	1,1-Dichloroethane	0.0055	U	0.00099	0.0055	mg/Kg
110-82-7	Cyclohexane	0.0055	U	0.0020	0.0055	mg/Kg
78-93-3	2-Butanone	0.027	U	0.0073	0.027	mg/Kg
56-23-5	Carbon Tetrachloride	0.0055	U	0.00090	0.0055	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0055	U	0.0011	0.0055	mg/Kg
74-97-5	Bromochloromethane	0.0055	U	0.0013	0.0055	mg/Kg
67-66-3	Chloroform	0.0055	U	0.00094	0.0055	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0055	U	0.0012	0.0055	mg/Kg
108-87-2	Methylcyclohexane	0.0055	U	0.0013	0.0055	mg/Kg
71-43-2	Benzene	0.0055	U	0.00092	0.0055	mg/Kg
107-06-2	1,2-Dichloroethane	0.0055	U	0.0013	0.0055	mg/Kg
79-01-6	Trichloroethene	0.0055	U	0.0010	0.0055	mg/Kg
78-87-5	1,2-Dichloropropane	0.0055	U	0.0014	0.0055	mg/Kg
75-27-4	Bromodichloromethane	0.0055	U	0.0011	0.0055	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.027	U	0.0061	0.027	mg/Kg
108-88-3	Toluene	0.0055	U	0.0011	0.0055	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0055	U	0.0011	0.0055	mg/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-2-9.5-10.0	SDG No.:	K4421
Lab Sample ID:	K4421-12	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	8.5
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012079.D	1		08/21/19 19:26	VW082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-01-5	cis-1,3-Dichloropropene	0.0055	U	0.0012	0.0055	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0055	U	0.0016	0.0055	mg/Kg
591-78-6	2-Hexanone	0.027	U	0.0081	0.027	mg/Kg
124-48-1	Dibromochloromethane	0.0055	U	0.0014	0.0055	mg/Kg
106-93-4	1,2-Dibromoethane	0.0055	U	0.0014	0.0055	mg/Kg
127-18-4	Tetrachloroethene	0.0055	U	0.00076	0.0055	mg/Kg
108-90-7	Chlorobenzene	0.0055	U	0.00086	0.0055	mg/Kg
100-41-4	Ethyl Benzene	0.0055	U	0.00093	0.0055	mg/Kg
179601-23-1	m/p-Xylenes	0.011	U	0.0018	0.011	mg/Kg
95-47-6	o-Xylene	0.0055	U	0.0012	0.0055	mg/Kg
100-42-5	Styrene	0.0055	U	0.0011	0.0055	mg/Kg
75-25-2	Bromoform	0.0055	U	0.0036	0.0055	mg/Kg
98-82-8	Isopropylbenzene	0.0055	U	0.00095	0.0055	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0055	U	0.0012	0.0055	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0055	U	0.0012	0.0055	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0055	U	0.0012	0.0055	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0055	U	0.0014	0.0055	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0055	U	0.0036	0.0055	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0055	U	0.0012	0.0055	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0055	U	0.0014	0.0055	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.9		56 - 120	104%	SPK: 50
1868-53-7	Dibromofluoromethane	54.4		57 - 135	109%	SPK: 50
2037-26-5	Toluene-d8	53.2		67 - 123	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		33 - 141	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	7.95			
540-36-3	1,4-Difluorobenzene	285000	8.84			
3114-55-4	Chlorobenzene-d5	231000	11.63			
3855-82-1	1,4-Dichlorobenzene-d4	92700	13.56			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-2-9.5-10.0	SDG No.:	K4421
Lab Sample ID:	K4421-12	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	8.5
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012079.D	1		08/21/19 19:26	VW082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-1-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-13	Matrix:	SOIL
Analytical Method:	8015D DRO	% Moisture:	8.6 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG005671.D	1	08/21/19 08:10	08/21/19 19:05	PB122422

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	27.2		0.91	1.82	mg/Kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.4		37 - 130	77%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-1-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-13	Matrix:	SOIL
Analytical Method:	8015D GRO	% Moisture:	8.6 Decanted:
Sample Wt/Vol:	4.99 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB022068.D	1	08/21/19 18:55	FB082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	0.019	J	0.013	0.049	mg/Kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	12.7		50 - 150	64%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-1-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-13	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	8.6 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR040493.D	1	08/21/19 13:10	08/21/19 20:47	PB122439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.019	U	0.0022	0.019	mg/Kg
11104-28-2	Aroclor-1221	0.019	U	0.0073	0.019	mg/Kg
11141-16-5	Aroclor-1232	0.019	U	0.0071	0.019	mg/Kg
53469-21-9	Aroclor-1242	0.019	U	0.0064	0.019	mg/Kg
12672-29-6	Aroclor-1248	0.019	U	0.0060	0.019	mg/Kg
11097-69-1	Aroclor-1254	0.019	U	0.0070	0.019	mg/Kg
37324-23-5	Aroclor-1262	0.019	U	0.0054	0.019	mg/Kg
11100-14-4	Aroclor-1268	0.019	U	0.0047	0.019	mg/Kg
11096-82-5	Aroclor-1260	0.021		0.0050	0.019	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	12.8		10 - 166	64%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.1		60 - 125	66%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/20/19
Client Sample ID:	SUNSET-PARK-SB-1-COMPRE	SDG No.:	K4421
Lab Sample ID:	K4421-13RE	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	8.6 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR040511.D	1	08/21/19 13:10	08/22/19 13:21	PB122439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.019	U	0.0022	0.019	mg/Kg
11104-28-2	Aroclor-1221	0.019	U	0.0073	0.019	mg/Kg
11141-16-5	Aroclor-1232	0.019	U	0.0071	0.019	mg/Kg
53469-21-9	Aroclor-1242	0.019	U	0.0064	0.019	mg/Kg
12672-29-6	Aroclor-1248	0.019	U	0.0060	0.019	mg/Kg
11097-69-1	Aroclor-1254	0.019	U	0.0070	0.019	mg/Kg
37324-23-5	Aroclor-1262	0.019	U	0.0054	0.019	mg/Kg
11100-14-4	Aroclor-1268	0.019	U	0.0047	0.019	mg/Kg
11096-82-5	Aroclor-1260	0.023		0.0050	0.019	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.1		10 - 166	76%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.4		60 - 125	67%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-1-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-13	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	8.6
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM022230.D	1	08/21/19 08:20	08/21/19 15:43	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	0.36	U	0.054	0.36	mg/Kg
208-96-8	Acenaphthylene	0.36	U	0.066	0.36	mg/Kg
83-32-9	Acenaphthene	0.36	U	0.074	0.36	mg/Kg
86-73-7	Fluorene	0.36	U	0.056	0.36	mg/Kg
85-01-8	Phenanthrene	0.20	J	0.062	0.36	mg/Kg
120-12-7	Anthracene	0.36	U	0.061	0.36	mg/Kg
206-44-0	Fluoranthene	0.22	J	0.054	0.36	mg/Kg
129-00-0	Pyrene	0.20	J	0.067	0.36	mg/Kg
56-55-3	Benzo(a)anthracene	0.11	J	0.041	0.36	mg/Kg
218-01-9	Chrysene	0.11	J	0.047	0.36	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.13	J	0.053	0.36	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.36	U	0.062	0.36	mg/Kg
50-32-8	Benzo(a)pyrene	0.098	J	0.049	0.36	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.36	U	0.079	0.36	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.36	U	0.057	0.36	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.084	J	0.067	0.36	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	65.3		31 - 132	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.2		39 - 123	65%	SPK: 100
1718-51-0	Terphenyl-d14	60.6		37 - 115	61%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	33200	7.56			
1146-65-2	Naphthalene-d8	129000	10.34			
15067-26-2	Acenaphthene-d10	76300	14.22			
1517-22-2	Phenanthrene-d10	146000	16.99			
1719-03-5	Chrysene-d12	148000	21.19			
1520-96-3	Perylene-d12	173000	23.39			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-1-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-13	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	8.6
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM022230.D	1	08/21/19 08:20	08/21/19 15:43	PB122424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-1-9.0-9.5	SDG No.:	K4421
Lab Sample ID:	K4421-14	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	7.6
Sample Wt/Vol:	5.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012080.D	1		08/21/19 19:52	VW082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.0054	U	0.00097	0.0054	mg/Kg
74-87-3	Chloromethane	0.0054	U	0.0019	0.0054	mg/Kg
75-01-4	Vinyl Chloride	0.0054	U	0.0012	0.0054	mg/Kg
74-83-9	Bromomethane	0.0054	U	0.00041	0.0054	mg/Kg
75-00-3	Chloroethane	0.0054	U	0.00062	0.0054	mg/Kg
75-69-4	Trichlorofluoromethane	0.0054	U	0.00069	0.0054	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0054	U	0.00086	0.0054	mg/Kg
75-65-0	Tert butyl alcohol	0.027	U	0.016	0.027	mg/Kg
75-35-4	1,1-Dichloroethene	0.0054	U	0.0011	0.0054	mg/Kg
67-64-1	Acetone	0.027	U	0.0082	0.027	mg/Kg
75-15-0	Carbon Disulfide	0.0054	U	0.0011	0.0054	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0054	U	0.0015	0.0054	mg/Kg
79-20-9	Methyl Acetate	0.0054	U	0.0030	0.0054	mg/Kg
75-09-2	Methylene Chloride	0.011	U	0.0056	0.011	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0054	U	0.0013	0.0054	mg/Kg
75-34-3	1,1-Dichloroethane	0.0054	U	0.00097	0.0054	mg/Kg
110-82-7	Cyclohexane	0.0054	U	0.0019	0.0054	mg/Kg
78-93-3	2-Butanone	0.027	U	0.0071	0.027	mg/Kg
56-23-5	Carbon Tetrachloride	0.0054	U	0.00088	0.0054	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0054	U	0.0011	0.0054	mg/Kg
74-97-5	Bromochloromethane	0.0054	U	0.0013	0.0054	mg/Kg
67-66-3	Chloroform	0.0054	U	0.00093	0.0054	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0054	U	0.0011	0.0054	mg/Kg
108-87-2	Methylcyclohexane	0.0054	U	0.0013	0.0054	mg/Kg
71-43-2	Benzene	0.0054	U	0.00090	0.0054	mg/Kg
107-06-2	1,2-Dichloroethane	0.0054	U	0.0013	0.0054	mg/Kg
79-01-6	Trichloroethene	0.0054	U	0.0010	0.0054	mg/Kg
78-87-5	1,2-Dichloropropane	0.0054	U	0.0013	0.0054	mg/Kg
75-27-4	Bromodichloromethane	0.0054	U	0.0011	0.0054	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.027	U	0.0060	0.027	mg/Kg
108-88-3	Toluene	0.0054	U	0.0010	0.0054	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0054	U	0.0011	0.0054	mg/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-1-9.0-9.5	SDG No.:	K4421
Lab Sample ID:	K4421-14	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	7.6
Sample Wt/Vol:	5.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012080.D	1		08/21/19 19:52	VW082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-01-5	cis-1,3-Dichloropropene	0.0054	U	0.0011	0.0054	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0054	U	0.0015	0.0054	mg/Kg
591-78-6	2-Hexanone	0.027	U	0.0079	0.027	mg/Kg
124-48-1	Dibromochloromethane	0.0054	U	0.0014	0.0054	mg/Kg
106-93-4	1,2-Dibromoethane	0.0054	U	0.0014	0.0054	mg/Kg
127-18-4	Tetrachloroethene	0.0054	U	0.00074	0.0054	mg/Kg
108-90-7	Chlorobenzene	0.0054	U	0.00084	0.0054	mg/Kg
100-41-4	Ethyl Benzene	0.0054	U	0.00091	0.0054	mg/Kg
179601-23-1	m/p-Xylenes	0.011	U	0.0018	0.011	mg/Kg
95-47-6	o-Xylene	0.0054	U	0.0012	0.0054	mg/Kg
100-42-5	Styrene	0.0054	U	0.0011	0.0054	mg/Kg
75-25-2	Bromoform	0.0054	U	0.0035	0.0054	mg/Kg
98-82-8	Isopropylbenzene	0.0054	U	0.00093	0.0054	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0054	U	0.0012	0.0054	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0054	U	0.0011	0.0054	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0054	U	0.0011	0.0054	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0054	U	0.0014	0.0054	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0054	U	0.0036	0.0054	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0054	U	0.0012	0.0054	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0054	U	0.0014	0.0054	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.9		56 - 120	110%	SPK: 50
1868-53-7	Dibromofluoromethane	54.3		57 - 135	109%	SPK: 50
2037-26-5	Toluene-d8	53.1		67 - 123	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.1		33 - 141	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	251000	7.95			
540-36-3	1,4-Difluorobenzene	425000	8.84			
3114-55-4	Chlorobenzene-d5	353000	11.63			
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.56			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-1-9.0-9.5	SDG No.:	K4421
Lab Sample ID:	K4421-14	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	7.6
Sample Wt/Vol:	5.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VW012080.D	1		08/21/19 19:52	VW082119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19 09:40
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-7-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-15	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	10.6	H	1	0	0	pH		08/20/19 16:21	9045D
Ignitability	NO		1	0	0	oC		08/21/19 10:40	1030
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		08/21/19 12:15	9095B
Reactive Cyanide	0.050	U	1	0.050	0.050	mg/Kg	08/21/19 10:30	08/22/19 11:43	9012B
Reactive Sulfide	10.0	U	1	10.0	10.0	mg/Kg	08/21/19 12:30	08/21/19 14:40	9034

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-7-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-15	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	0.10	U	1	0.0068	0.10	mg/L	08/21/19 10:02	08/21/19 17:16	SW6010
7440-39-3	Barium	0.96	N	1	0.040	0.50	mg/L	08/21/19 10:02	08/21/19 17:16	SW6010
7440-43-9	Cadmium	0.0021	J	1	0.0017	0.030	mg/L	08/21/19 10:02	08/21/19 17:16	SW6010
7440-47-3	Chromium	0.015	J	1	0.013	0.050	mg/L	08/21/19 10:02	08/21/19 17:16	SW6010
7439-92-1	Lead	0.31		1	0.014	0.060	mg/L	08/21/19 10:02	08/21/19 17:16	SW6010
7439-97-6	Mercury	0.0020	U	1	0.00043	0.0020	mg/L	08/21/19 15:12	08/22/19 11:11	SW7470A
7782-49-2	Selenium	0.043	J	1	0.028	0.10	mg/L	08/21/19 10:02	08/21/19 17:16	SW6010
7440-22-4	Silver	0.050	U	1	0.0017	0.050	mg/L	08/21/19 10:02	08/21/19 17:16	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	Clear
Color After:	Colorless	Clarity After:	Clear	Artifacts:	Clear
Comments:	TCLP METALS				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19 10:20
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-6-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-16	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	10.2	H	1	0	0	pH		08/20/19 16:24	9045D
Ignitability	NO		1	0	0	oC		08/21/19 10:48	1030
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		08/21/19 12:22	9095B
Reactive Cyanide	0.050	U	1	0.050	0.050	mg/Kg	08/21/19 10:30	08/22/19 11:43	9012B
Reactive Sulfide	10.0	U	1	10.0	10.0	mg/Kg	08/21/19 12:30	08/21/19 14:42	9034

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-6-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-16	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	0.10	U	1	0.0068	0.10	mg/L	08/21/19 10:02	08/21/19 17:19	SW6010
7440-39-3	Barium	1.43	N	1	0.040	0.50	mg/L	08/21/19 10:02	08/21/19 17:19	SW6010
7440-43-9	Cadmium	0.0021	J	1	0.0017	0.030	mg/L	08/21/19 10:02	08/21/19 17:19	SW6010
7440-47-3	Chromium	0.016	J	1	0.013	0.050	mg/L	08/21/19 10:02	08/21/19 17:19	SW6010
7439-92-1	Lead	0.70		1	0.014	0.060	mg/L	08/21/19 10:02	08/21/19 17:19	SW6010
7439-97-6	Mercury	0.0020	U	1	0.00043	0.0020	mg/L	08/21/19 15:12	08/22/19 11:13	SW7470A
7782-49-2	Selenium	0.047	J	1	0.028	0.10	mg/L	08/21/19 10:02	08/21/19 17:19	SW6010
7440-22-4	Silver	0.050	U	1	0.0017	0.050	mg/L	08/21/19 10:02	08/21/19 17:19	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	Clear
Color After:	Colorless	Clarity After:	Clear	Artifacts:	Clear
Comments:	TCLP METALS				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19 10:55
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-5-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-17	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.20	H	1	0	0	pH		08/20/19 16:25	9045D
Ignitability	NO		1	0	0	oC		08/21/19 10:55	1030
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		08/21/19 12:30	9095B
Reactive Cyanide	0.050	U	1	0.050	0.050	mg/Kg	08/21/19 10:30	08/22/19 11:50	9012B
Reactive Sulfide	10.0	U	1	10.0	10.0	mg/Kg	08/21/19 12:30	08/21/19 14:45	9034

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-5-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-17	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	0.044	J	1	0.0068	0.10	mg/L	08/21/19 10:02	08/21/19 17:23	SW6010
7440-39-3	Barium	2.01	N	1	0.040	0.50	mg/L	08/21/19 10:02	08/21/19 17:23	SW6010
7440-43-9	Cadmium	0.030	U	1	0.0017	0.030	mg/L	08/21/19 10:02	08/21/19 17:23	SW6010
7440-47-3	Chromium	0.050	U	1	0.013	0.050	mg/L	08/21/19 10:02	08/21/19 17:23	SW6010
7439-92-1	Lead	0.044	J	1	0.014	0.060	mg/L	08/21/19 10:02	08/21/19 17:23	SW6010
7439-97-6	Mercury	0.0020	U	1	0.00043	0.0020	mg/L	08/21/19 15:12	08/22/19 11:19	SW7470A
7782-49-2	Selenium	0.074	J	1	0.028	0.10	mg/L	08/21/19 10:02	08/21/19 17:23	SW6010
7440-22-4	Silver	0.050	U	1	0.0017	0.050	mg/L	08/21/19 10:02	08/21/19 17:23	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	Clear
Color After:	Colorless	Clarity After:	Clear	Artifacts:	Clear
Comments:	TCLP METALS				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19 11:30
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-4-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-18	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.07	H	1	0	0	pH		08/20/19 16:27	9045D
Ignitability	NO		1	0	0	oC		08/21/19 11:05	1030
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		08/21/19 12:38	9095B
Reactive Cyanide	0.050	U	1	0.050	0.050	mg/Kg	08/21/19 10:30	08/22/19 11:50	9012B
Reactive Sulfide	10.0	U	1	10.0	10.0	mg/Kg	08/21/19 12:30	08/21/19 14:48	9034

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-4-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-18	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	0.10	U	1	0.0068	0.10	mg/L	08/21/19 10:02	08/21/19 17:27	SW6010
7440-39-3	Barium	1.62	N	1	0.040	0.50	mg/L	08/21/19 10:02	08/21/19 17:27	SW6010
7440-43-9	Cadmium	0.0045	J	1	0.0017	0.030	mg/L	08/21/19 10:02	08/21/19 17:27	SW6010
7440-47-3	Chromium	0.050	U	1	0.013	0.050	mg/L	08/21/19 10:02	08/21/19 17:27	SW6010
7439-92-1	Lead	1.63		1	0.014	0.060	mg/L	08/21/19 10:02	08/21/19 17:27	SW6010
7439-97-6	Mercury	0.0020	U	1	0.00043	0.0020	mg/L	08/21/19 15:12	08/22/19 11:21	SW7470A
7782-49-2	Selenium	0.057	J	1	0.028	0.10	mg/L	08/21/19 10:02	08/21/19 17:27	SW6010
7440-22-4	Silver	0.050	U	1	0.0017	0.050	mg/L	08/21/19 10:02	08/21/19 17:27	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	Clear
Color After:	Colorless	Clarity After:	Clear	Artifacts:	Clear
Comments:	TCLP METALS				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19 12:10
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-3-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-19	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.81	H	1	0	0	pH		08/20/19 16:30	9045D
Ignitability	NO		1	0	0	oC		08/21/19 11:12	1030
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		08/21/19 12:45	9095B
Reactive Cyanide	0.050	U	1	0.050	0.050	mg/Kg	08/21/19 10:30	08/22/19 11:50	9012B
Reactive Sulfide	10.0	U	1	10.0	10.0	mg/Kg	08/21/19 12:30	08/21/19 14:52	9034

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-3-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-19	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	0.10	U	1	0.0068	0.10	mg/L	08/21/19 10:02	08/21/19 17:31	SW6010
7440-39-3	Barium	1.77	N	1	0.040	0.50	mg/L	08/21/19 10:02	08/21/19 17:31	SW6010
7440-43-9	Cadmium	0.0034	J	1	0.0017	0.030	mg/L	08/21/19 10:02	08/21/19 17:31	SW6010
7440-47-3	Chromium	0.050	U	1	0.013	0.050	mg/L	08/21/19 10:02	08/21/19 17:31	SW6010
7439-92-1	Lead	0.22		1	0.014	0.060	mg/L	08/21/19 10:02	08/21/19 17:31	SW6010
7439-97-6	Mercury	0.0020	U	1	0.00043	0.0020	mg/L	08/21/19 15:12	08/22/19 11:23	SW7470A
7782-49-2	Selenium	0.051	J	1	0.028	0.10	mg/L	08/21/19 10:02	08/21/19 17:31	SW6010
7440-22-4	Silver	0.050	U	1	0.0017	0.050	mg/L	08/21/19 10:02	08/21/19 17:31	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	Clear
Color After:	Colorless	Clarity After:	Clear	Artifacts:	Clear
Comments:	TCLP METALS				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19 12:40
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-2-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-20	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	10.0	H	1	0	0	pH		08/20/19 16:32	9045D
Ignitability	NO		1	0	0	oC		08/21/19 11:20	1030
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		08/21/19 12:48	9095B
Reactive Cyanide	0.050	U	1	0.050	0.050	mg/Kg	08/21/19 10:30	08/22/19 11:50	9012B
Reactive Sulfide	10.0	U	1	10.0	10.0	mg/Kg	08/21/19 12:30	08/21/19 14:55	9034

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-2-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-20	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	0.10	U	1	0.0068	0.10	mg/L	08/21/19 10:02	08/22/19 11:18	SW6010
7440-39-3	Barium	1.34	N	1	0.040	0.50	mg/L	08/21/19 10:02	08/22/19 11:18	SW6010
7440-43-9	Cadmium	0.0052	J	1	0.0017	0.030	mg/L	08/21/19 10:02	08/22/19 11:18	SW6010
7440-47-3	Chromium	0.050	U	1	0.013	0.050	mg/L	08/21/19 10:02	08/22/19 11:18	SW6010
7439-92-1	Lead	0.11		1	0.014	0.060	mg/L	08/21/19 10:02	08/22/19 11:18	SW6010
7439-97-6	Mercury	0.0020	U	1	0.00043	0.0020	mg/L	08/21/19 15:12	08/22/19 11:25	SW7470A
7782-49-2	Selenium	0.047	J	1	0.028	0.10	mg/L	08/21/19 10:02	08/22/19 11:18	SW6010
7440-22-4	Silver	0.050	U	1	0.0017	0.050	mg/L	08/21/19 10:02	08/22/19 11:18	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	Clear
Color After:	Colorless	Clarity After:	Clear	Artifacts:	Clear
Comments:	TCLP METALS				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19 13:20
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-1-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-21	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.94	H	1	0	0	pH		08/20/19 16:34	9045D
Ignitability	NO		1	0	0	oC		08/21/19 11:28	1030
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		08/21/19 12:55	9095B
Reactive Cyanide	0.050	U	1	0.050	0.050	mg/Kg	08/21/19 10:30	08/22/19 11:50	9012B
Reactive Sulfide	10.0	U	1	10.0	10.0	mg/Kg	08/21/19 12:30	08/21/19 14:58	9034

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Client:	LiRo Engineers, Inc.	Date Collected:	08/19/19
Project:	DDC OEGS - Sunset Park Phase II SCI	Date Received:	08/19/19
Client Sample ID:	SUNSET-PARK-SB-1-COMP	SDG No.:	K4421
Lab Sample ID:	K4421-21	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	0.016	J	1	0.0068	0.10	mg/L	08/21/19 10:02	08/22/19 11:21	SW6010
7440-39-3	Barium	1.98	N	1	0.040	0.50	mg/L	08/21/19 10:02	08/22/19 11:21	SW6010
7440-43-9	Cadmium	0.0045	J	1	0.0017	0.030	mg/L	08/21/19 10:02	08/22/19 11:21	SW6010
7440-47-3	Chromium	0.050	U	1	0.013	0.050	mg/L	08/21/19 10:02	08/22/19 11:21	SW6010
7439-92-1	Lead	0.12		1	0.014	0.060	mg/L	08/21/19 10:02	08/22/19 11:21	SW6010
7439-97-6	Mercury	0.0020	U	1	0.00043	0.0020	mg/L	08/21/19 15:12	08/22/19 11:28	SW7470A
7782-49-2	Selenium	0.028	J	1	0.028	0.10	mg/L	08/21/19 10:02	08/22/19 11:21	SW6010
7440-22-4	Silver	0.050	U	1	0.0017	0.050	mg/L	08/21/19 10:02	08/22/19 11:21	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	Clear
Color After:	Colorless	Clarity After:	Clear	Artifacts:	Clear
Comments:	TCLP METALS				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range

Report of Analysis

N =Spiked sample recovery not within control limits

Appendix B

Field Book Contents

Project: SAND1048 Brooklyn, Brooklyn	**Applemon Corporation** 151 S. Mountain Road New City, NY 10956	Drilling Method: Push Field Manager: Nathan Paul Weather: Rainstorms

Depth (ft)	Sample	PID (ppm)	Soil Description/Classification	Notes

Date: 5/14/25	Start: 9:33am	Finish: 9:50	Location: 2nd Avenue b/w 37th St & 39th St	SB- 1

1			Fill Misc. urban debris
2			
3			
4			Brown silty sand f-m-c some gravel
5			
6			// f-m silty sand //
7			
8			BT@ 7ft bg
9			
10			
11			
12			
13			

Date: 5/14/25	Start: 10am	Finish: 10:09am	Location: Intersection of 37th St & 2nd Ave	SB- 2

1			fill misc. urban debris
2			
3			Dark Brown f-m silty, clayey sand
4			some gravel
5			
6			Brown clay silty //
7			
8			
9			Dark Brown f-m silty clayey sand //
10			
11			BT@ 10 ft bg
12			
13			

Project: SAND1048 Brooklyn, Brooklyn	**Applemon Corporation** 151 S. Mountain Road New City, NY 10956	Drilling Method: Push Field Manager: Nathan Paul Weather: Rainstorms

Depth (ft)	Sample	PID (ppm)	Soil Description/Classification	Notes
Date: 5/14/25			Start: 10:22 Finish: 11:05 Location: Intersection of 36th st & 2nd Ave	SB- 3
1			MISC. Fill	
2				
3				
4				
5				
6			6" retrieval	
7			Brown fine clayey sand & gravel	
8				
9				
10				
11		/	// // //	Extended 1 ft not enough soil
12			BY @ 11 ft bg	
13				
Date: 5/14/25			Start: 11:15am Finish: 11:30 Location: +35st & 2nd Ave	SB- 4
1				1st attempt- refusal @ 4ft
2				
3			Fill	
4				
5				
6				
7				
8			Brown Sandy Silty clay some gravel	
9				
10				
11			BY @ 10ft bg	
12				
13				

Project: SAND1048 Brooklyn, Brooklyn	**Applemon Corporation** 151 S. Mountain Road New City, NY 10956	Drilling Method: Push Field Manager: Nathan Paul Weather: Rainstorms

Depth (ft)	Sample	PID (ppm)	Soil Description/Classification	Notes

Date: 5/14/25	Start: 11:39	Finish: 11:47	Location: + 34th & 2nd Ave	SB- 5

1			Fill
2			
3			
4			
5			
6			Dark Brown silty sandy clay some gravel
7			
8			
9			
10			
11			BT @ 10ft bg
12			
13			

Date: 5/14/25	Start: 11:54	Finish: 12:02	Location: + 34th & 2nd Ave	SB- 6

1			fill
2			
3			
4			
5			
6			Brown silty sandy clay some gravel
7			
8			
9			
10			
11			BT @ 10ft bg
12			
13			

Project: SAND1048 Brooklyn, Brooklyn	**Applemon Corporation** 151 S. Mountain Road New City, NY 10956	Drilling Method: Push Field Manager: Nathan Paul Weather: Rainstorms

Depth (ft)	Sample	PID (ppm)	Soil Description/Classification	Notes
Date: 5/14/25			Start: 12:09pm Finish: 12:30pm Location: Intersection of 33rd St & 2nd Ave	SB-7
1			Fill - misc. urban debris	
2				
3				
4				
5				
6			Black wood & debris	
7			silty, clayey	
8				
9				
10				
11				
12			BT@11ftbg	
13				
Date: 5/14/25			Start: 1:34pm Finish: Location: Intersection of 32nd St & 2nd Ave	SB-8
1			Fill - misc, urban debris	
2				
3				
4				
5				
6			Gray wood & debris	
7			silty, clayey	
8				
9				
10				
11			BT@10ftbg	
12				
13				

Project: SAND1048 Brooklyn, Brooklyn	**Applemon Corporation** 151 S. Mountain Road New City, NY 10956	Drilling Method: Push Field Manager: Nathan Paul Weather: Rain Storms

Depth (ft)	Sample	PID (ppm)	Soil Description/Classification	Notes
Date: 5/14/25			Start: 1:53pm Finish: 2:03pm Location: 2nd Ave b/w #850 & 830 3rd Ave	SB- 9
1			1:53pm	
2				
3			Fill Misc. Urban debris	
4				
5				
6				
7			Fill "	
8				
9				
10				
11			BT @ 10ft bg	
12				
13				
Date: 5/15/25			Start: 9:15am Finish: 9:30 Location: 2nd Ave next to #830 3rd Ave	SB- 10
1				
2				
3			Fill Dark Brown silty, clayey f-m-c Sand	
4				
5				
6				
7			" "	
8				
9				
10				
11			BT @ 10ft bg	
12				
13				

Project: SAND1048 Brooklyn, Brooklyn	**Applemon Corporation** 151 S. Mountain Road New City, NY 10956	Drilling Method: Push Field Manager: Nathan Paul Weather: Overcast

Depth (ft)	Sample	PID (ppm)	Soil Description/Classification	Notes
Date: 5/15/25			Start: 9:30am Finish: 9:37am Location: Intersection of 29th St & 2nd Ave	SB- 11
1			Brown Fill	
2				
3				
4				
5				
6			Black Fill & silty, clayey urban debris	
7				
8				
9				
10				
11			BT@10ftbg	
12				
13				
Date: 5/15/25			Start: 9:44am Finish: 9:48am Location: North of Parking lot to Detention center	SB- 12
1			Dark Brown Fill	
2				
3				
4			Red-Brown Sandy clay, some gravel	
5				
6			BT @ 5ftbg	
7				
8				
9				
10				
11				
12				
13				

Project: SAND1048 Brooklyn, Brooklyn	**Applemon Corporation** 151 S. Mountain Road New City, NY 10956	Drilling Method: Push Field Manager: Nathan Paul Weather: Overcast

Depth (ft)	Sample	PID (ppm)	Soil Description/Classification	Notes

Date: 5/15/25	Start: 9:51am	Finish: 10:03am	Location: In front of Parking lot - Detention Center	SB- 13

Depth (ft)	Sample	PID (ppm)	Soil Description/Classification	Notes
1			Brown fill f-m-c silty sand	
2				
3				
4				
5				
6			Dark Brown f-m clayey sand some gravel	
7				
8				
9				
10			BT@10ft by	
11				
12				
13				

Date: 5/15/25	Start: 10:13am	Finish: 10:16am	Location: ~100ft NW of 3rd Ave	SB- 14

Depth (ft)	Sample	PID (ppm)	Soil Description/Classification	Notes
1			road subbase	
2				
3				
4			Red-Brown clayey Sand f-m some gravel	
5				
6			BT@ 5ft by	
7				
8				
9				
10				
11				
12				
13				

Appendix C

Laboratory Qualifications

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Acrylates

Acrolein (Propenal)	EPA 8260D
	EPA 8260C
Acrylonitrile	EPA 8260D
	EPA 8260C
Methyl methacrylate	EPA 8260D
	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 8270D
	EPA 8270E
2-Nitroaniline	EPA 8270D
	EPA 8270E
3-Nitroaniline	EPA 8270D
	EPA 8270E
4-Chloroaniline	EPA 8270D
	EPA 8270E
4-Nitroaniline	EPA 8270D
	EPA 8270E
Aniline	EPA 8270D
	EPA 8270E
Carbazole	EPA 8270D
	EPA 8270E
Diphenylamine	EPA 8270D
	EPA 8270E

Benzidines

3,3'-Dichlorobenzidine	EPA 8270D
	EPA 8270E

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Benzidines

Benzidine	EPA 8270D
	EPA 8270E

Characteristic Testing

Corrosivity (pH)	EPA 9045D
Free Liquids	EPA 9095B
Ignitability	EPA 1010A
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
	EPA 8270E
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Chlorinated Hydrocarbon Pesticides

Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Mirex	EPA 8081B
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
	EPA 8270E
1,2,4-Trichlorobenzene	EPA 8270D
	EPA 8270E
2-Chloronaphthalene	EPA 8270D
	EPA 8270E
Hexachlorobenzene	EPA 8270D
	EPA 8270E
Hexachlorobutadiene	EPA 8270D
	EPA 8270E
Hexachlorocyclopentadiene	EPA 8270D
	EPA 8270E
Hexachloroethane	EPA 8270D
	EPA 8270E

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270D
	EPA 8270E
4-Bromophenylphenyl ether	EPA 8270D
	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270D
	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270D
	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270D
	EPA 8270E

Metals I

Barium, Total	EPA 6010C
	EPA 6010D
Cadmium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Calcium, Total	EPA 6010C
	EPA 6010D
Chromium, Total	EPA 6010C
	EPA 6010D

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Metals I

Chromium, Total	EPA 6020A
	EPA 6020B
Copper, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Iron, Total	EPA 6010C
	EPA 6010D
Lead, Total	EPA 6010C
	EPA 6010D
Magnesium, Total	EPA 6010C
	EPA 6010D
Manganese, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Nickel, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Potassium, Total	EPA 6010C
	EPA 6010D
Silver, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Sodium, Total	EPA 6010C

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Metals I

Sodium, Total	EPA 6010D

Metals II

Aluminum, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Antimony, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Arsenic, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Beryllium, Total	EPA 6010C
	EPA 6010D
Chromium VI	EPA 7196A
Mercury, Total	EPA 7471B
	EPA 7473
Selenium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Vanadium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Metals II

Zinc, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B

Metals III

Cobalt, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Thallium, Total	EPA 6010C
	EPA 6010D
Tin, Total	EPA 6020A
	EPA 6020B
Titanium, Total	EPA 6020A

Miscellaneous

Cyanide, Total	EPA 9014
Extractable Organic Halides	EPA 9023

Nitroaromatics and Isophorone

2,4-Dinitrotoluene	EPA 8270D
	EPA 8270E
2,6-Dinitrotoluene	EPA 8270D
	EPA 8270E
Isophorone	EPA 8270D
	EPA 8270E
Nitrobenzene	EPA 8270D
	EPA 8270E

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Nitroaromatics and Isophorone

Pyridine	EPA 8270D
	EPA 8270E

Nitrosoamines

N-Nitrosodimethylamine	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 8270D
	EPA 8270E
N-Nitrosodiphenylamine	EPA 8270D
	EPA 8270E

Organophosphate Pesticides

Parathion ethyl	EPA 8270D
	EPA 8270E

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015D
Gasoline Range Organics	EPA 8015D

Phthalate Esters

Benzyl butyl phthalate	EPA 8270D
	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 8270D
	EPA 8270E
Diethyl phthalate	EPA 8270D
	EPA 8270E
Dimethyl phthalate	EPA 8270D
	EPA 8270E
Di-n-butyl phthalate	EPA 8270D
	EPA 8270E

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Phthalate Esters

Di-n-octyl phthalate	EPA 8270D
	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1232 (PCB-1232) in Oil	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1262 (PCB-1262) in Oil	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
Aroclor 1268 (PCB-1268) in Oil	EPA 8082A

Polynuclear Aromatic Hydrocarbons

Acenaphthene	EPA 8270D
	EPA 8270E
Acenaphthylene	EPA 8270D
	EPA 8270E

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Polynuclear Aromatic Hydrocarbons

Anthracene	EPA 8270D
	EPA 8270E
Benzo(a)anthracene	EPA 8270D
	EPA 8270E
Benzo(a)pyrene	EPA 8270D
	EPA 8270E
Benzo(b)fluoranthene	EPA 8270D
	EPA 8270E
Benzo(g,h,i)perylene	EPA 8270D
	EPA 8270E
Benzo(k)fluoranthene	EPA 8270D
	EPA 8270E
Chrysene	EPA 8270D
	EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270D
	EPA 8270E
Fluoranthene	EPA 8270D
	EPA 8270E
Fluorene	EPA 8270D
	EPA 8270E
Naphthalene	EPA 8270D
	EPA 8270E
Phenanthrene	EPA 8270D
	EPA 8270E
Pyrene	EPA 8270D
	EPA 8270E

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
	EPA 8270E
2,4,5-Trichlorophenol	EPA 8270D
	EPA 8270E
2,4,6-Trichlorophenol	EPA 8270D
	EPA 8270E
2,4-Dichlorophenol	EPA 8270D
	EPA 8270E
2,4-Dimethylphenol	EPA 8270D
	EPA 8270E
2,4-Dinitrophenol	EPA 8270D
	EPA 8270E
2-Chlorophenol	EPA 8270D
	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 8270D
	EPA 8270E
2-Methylphenol	EPA 8270D
	EPA 8270E
2-Nitrophenol	EPA 8270D
	EPA 8270E
4-Chloro-3-methylphenol	EPA 8270D
	EPA 8270E
4-Methylphenol	EPA 8270D
	EPA 8270E
4-Nitrophenol	EPA 8270D
	EPA 8270E
Pentachlorophenol	EPA 8270D

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Priority Pollutant Phenols

Pentachlorophenol	EPA 8270E
Phenol	EPA 8270D
	EPA 8270E

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
2-Methylnaphthalene	EPA 8270D
	EPA 8270E
Acetophenone	EPA 8270D
	EPA 8270E
Benzaldehyde	EPA 8270D
	EPA 8270E
Benzoic Acid	EPA 8270D
	EPA 8270E
Benzyl alcohol	EPA 8270D
	EPA 8270E
Caprolactam	EPA 8270D
	EPA 8270E
Dibenzofuran	EPA 8270D
	EPA 8270E

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260D
	EPA 8260C
1,2-Dichlorobenzene	EPA 8260D
	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260D
	EPA 8260C
1,3-Dichlorobenzene	EPA 8260D
	EPA 8260C
1,4-Dichlorobenzene	EPA 8260D
	EPA 8260C
2-Chlorotoluene	EPA 8260D
	EPA 8260C
4-Chlorotoluene	EPA 8260D
	EPA 8260C
Benzene	EPA 8260D
	EPA 8260C
Bromobenzene	EPA 8260D
	EPA 8260C
Chlorobenzene	EPA 8260D
	EPA 8260C
Ethyl benzene	EPA 8260D
	EPA 8260C
Isopropylbenzene	EPA 8260D
	EPA 8260C
m/p-Xylenes	EPA 8260D

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Aromatics

m/p-Xylenes	EPA 8260C
Naphthalene, Volatile	EPA 8260D
	EPA 8260C
n-Butylbenzene	EPA 8260D
	EPA 8260C
n-Propylbenzene	EPA 8260D
	EPA 8260C
o-Xylene	EPA 8260D
	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260D
	EPA 8260C
sec-Butylbenzene	EPA 8260D
	EPA 8260C
Styrene	EPA 8260D
	EPA 8260C
tert-Butylbenzene	EPA 8260D
	EPA 8260C
Toluene	EPA 8260D
	EPA 8260C
Total Xylenes	EPA 8260D
	EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
	EPA 8260C
1,1,1-Trichloroethane	EPA 8260D
	EPA 8260C
1,1,2,2-Tetrachloroethane	EPA 8260D

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Halocarbons

1,1,2,2-Tetrachloroethane	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
	EPA 8260C
1,1,2-Trichloroethane	EPA 8260D
	EPA 8260C
1,1-Dichloroethene	EPA 8260D
	EPA 8260C
1,1-Dichloropropene	EPA 8260D
	EPA 8260C
1,2,3-Trichloropropane	EPA 8260D
	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260D
	EPA 8260C
1,2-Dibromoethane	EPA 8260D
	EPA 8260C
1,2-Dichloroethane	EPA 8260D
	EPA 8260C
1,2-Dichloropropane	EPA 8260D
	EPA 8260C
1,3-Dichloropropane	EPA 8260D
	EPA 8260C
2,2-Dichloropropane	EPA 8260D
	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260D
	EPA 8260C
Bromochloromethane	EPA 8260D
	EPA 8260C

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Halocarbons

Bromodichloromethane	EPA 8260D
	EPA 8260C
Bromoform	EPA 8260D
	EPA 8260C
Bromomethane	EPA 8260D
	EPA 8260C
Carbon tetrachloride	EPA 8260D
	EPA 8260C
Chloroethane	EPA 8260D
	EPA 8260C
Chloroform	EPA 8260D
	EPA 8260C
Chloromethane	EPA 8260D
	EPA 8260C
cis-1,2-Dichloroethene	EPA 8260D
	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260D
	EPA 8260C
Dibromochloromethane	EPA 8260D
	EPA 8260C
Dibromomethane	EPA 8260D
	EPA 8260C
Dichlorodifluoromethane	EPA 8260D
	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260D
	EPA 8260C
Methylene chloride	EPA 8260D

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Halocarbons

Methylene chloride	EPA 8260C
Tetrachloroethene	EPA 8260D
	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260D
	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260D
	EPA 8260C
Trichloroethene	EPA 8260D
	EPA 8260C
Trichlorofluoromethane	EPA 8260D
	EPA 8260C
Vinyl chloride	EPA 8260D
	EPA 8260C

Volatile Organics

1,4-Dioxane	EPA 8260D
	EPA 8260C
	EPA 8270D SIM
	EPA 8270E
	EPA 8270E SIM
2-Butanone (Methylethyl ketone)	EPA 8260D
	EPA 8260C
2-Hexanone	EPA 8260D
	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260D
	EPA 8260C
Acetone	EPA 8260D
	EPA 8260C

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Organics

Carbon Disulfide	EPA 8260D
	EPA 8260C
Cyclohexane	EPA 8260D
	EPA 8260C
Methyl acetate	EPA 8260D
	EPA 8260C
Methyl cyclohexane	EPA 8260D
	EPA 8260C
Methyl tert-butyl ether	EPA 8260D
	EPA 8260C
tert-butyl alcohol	EPA 8260D
	EPA 8260C
Vinyl acetate	EPA 8260D
	EPA 8260C

Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 3580A
EPA 3010A
EPA 3050B
EPA 3550C
EPA 3546
EPA 3545A
EPA 9010C

Serial No.: 70286

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CATHERINE L. MOSHER
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Lead in Dust Wipes	EPA 6010C
Lead in Paint	EPA 6010C

Sample Preparation Methods

	EPA 3050B

Serial No.: 70287

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

HEMEX PATEL
YORK ANALYTICAL LABORATORIES, INC. (II)
132-02 89TH AVENUE SUITE 217
RICHMOND HILL, NY 11418

NY Lab Id No: 12058

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Acrylates	
Acrolein (Propenal)	EPA 8260D
	EPA 8260C
Acrylonitrile	EPA 8260D
	EPA 8260C
Methyl methacrylate	EPA 8260D
	EPA 8260C
Chlorinated Hydrocarbons	
1,2,3-Trichlorobenzene	EPA 8260D
	EPA 8260C
Volatile Aromatics	
1,2,4-Trichlorobenzene, Volatile	EPA 8260D
	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260D
	EPA 8260C
1,2-Dichlorobenzene	EPA 8260D
	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260D
	EPA 8260C
1,3-Dichlorobenzene	EPA 8260D
	EPA 8260C
1,4-Dichlorobenzene	EPA 8260D
	EPA 8260C
2-Chlorotoluene	EPA 8260D
	EPA 8260C
4-Chlorotoluene	EPA 8260D
	EPA 8260C

Serial No.: 70783

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

HEMEX PATEL
YORK ANALYTICAL LABORATORIES, INC. (II)
132-02 89TH AVENUE SUITE 217
RICHMOND HILL, NY 11418

NY Lab Id No: 12058

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Aromatics

Benzene	EPA 8260D
	EPA 8260C
Bromobenzene	EPA 8260D
	EPA 8260C
Chlorobenzene	EPA 8260D
	EPA 8260C
Ethyl benzene	EPA 8260D
	EPA 8260C
Isopropylbenzene	EPA 8260D
	EPA 8260C
m/p-Xylenes	EPA 8260D
	EPA 8260C
Naphthalene, Volatile	EPA 8260D
	EPA 8260C
n-Butylbenzene	EPA 8260D
	EPA 8260C
n-Propylbenzene	EPA 8260D
	EPA 8260C
o-Xylene	EPA 8260D
	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260D
	EPA 8260C
sec-Butylbenzene	EPA 8260D
	EPA 8260C
Styrene	EPA 8260D
	EPA 8260C
tert-Butylbenzene	EPA 8260D

Serial No.: 70783

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

HEMEX PATEL
YORK ANALYTICAL LABORATORIES, INC. (II)
132-02 89TH AVENUE SUITE 217
RICHMOND HILL, NY 11418

NY Lab Id No: 12058

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Aromatics

tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260D
	EPA 8260C
Total Xylenes	EPA 8260D
	EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
	EPA 8260C
1,1,1-Trichloroethane	EPA 8260D
	EPA 8260C
1,1,2,2-Tetrachloroethane	EPA 8260D
	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
	EPA 8260C
1,1,2-Trichloroethane	EPA 8260D
	EPA 8260C
1,1-Dichloroethane	EPA 8260D
	EPA 8260C
1,1-Dichloroethene	EPA 8260D
	EPA 8260C
1,1-Dichloropropene	EPA 8260D
	EPA 8260C
1,2,3-Trichloropropane	EPA 8260D
	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260D
	EPA 8260C
1,2-Dibromoethane	EPA 8260D

Serial No.: 70783

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

HEMEX PATEL
YORK ANALYTICAL LABORATORIES, INC. (II)
132-02 89TH AVENUE SUITE 217
RICHMOND HILL, NY 11418

NY Lab Id No: 12058

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Halocarbons

1,2-Dibromoethane	EPA 8260C
1,2-Dichloroethane	EPA 8260D
	EPA 8260C
1,2-Dichloropropane	EPA 8260D
	EPA 8260C
1,3-Dichloropropane	EPA 8260D
	EPA 8260C
2,2-Dichloropropane	EPA 8260D
	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260D
	EPA 8260C
Bromochloromethane	EPA 8260D
	EPA 8260C
Bromodichloromethane	EPA 8260D
	EPA 8260C
Bromoform	EPA 8260D
	EPA 8260C
Bromomethane	EPA 8260D
	EPA 8260C
Carbon tetrachloride	EPA 8260D
	EPA 8260C
Chloroethane	EPA 8260D
	EPA 8260C
Chloroform	EPA 8260D
	EPA 8260C
Chloromethane	EPA 8260D
	EPA 8260C

Serial No.: 70783

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

HEMEX PATEL
YORK ANALYTICAL LABORATORIES, INC. (II)
132-02 89TH AVENUE SUITE 217
RICHMOND HILL, NY 11418

NY Lab Id No: 12058

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Halocarbons

cis-1,2-Dichloroethene	EPA 8260D
	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260D
	EPA 8260C
Dibromochloromethane	EPA 8260D
	EPA 8260C
Dibromomethane	EPA 8260D
	EPA 8260C
Dichlorodifluoromethane	EPA 8260D
	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260D
	EPA 8260C
Methylene chloride	EPA 8260D
	EPA 8260C
Tetrachloroethene	EPA 8260D
	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260D
	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260D
	EPA 8260C
Trichloroethene	EPA 8260D
	EPA 8260C
Trichlorofluoromethane	EPA 8260D
	EPA 8260C
Vinyl chloride	EPA 8260D
	EPA 8260C

Serial No.: 70783

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

HEMEX PATEL
YORK ANALYTICAL LABORATORIES, INC. (II)
132-02 89TH AVENUE SUITE 217
RICHMOND HILL, NY 11418

NY Lab Id No: 12058

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Organics

1,4-Dioxane	EPA 8260D
	EPA 8260C
2-Butanone (Methylethyl ketone)	EPA 8260D
	EPA 8260C
2-Hexanone	EPA 8260D
	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260D
	EPA 8260C
Acetone	EPA 8260D
	EPA 8260C
Carbon Disulfide	EPA 8260D
	EPA 8260C
Cyclohexane	EPA 8260D
	EPA 8260C
Methyl acetate	EPA 8260D
	EPA 8260C
Methyl cyclohexane	EPA 8260D
	EPA 8260C
Methyl tert-butyl ether	EPA 8260D
	EPA 8260C
tert-butyl alcohol	EPA 8260D
	EPA 8260C
Vinyl acetate	EPA 8260D
	EPA 8260C

Sample Preparation Methods

	EPA 5035A-L
	EPA 5035A-H

Serial No.: 70783

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

HEMEX PATEL
YORK ANALYTICAL LABORATORIES, INC. (II)
132-02 89TH AVENUE SUITE 217
RICHMOND HILL, NY 11418

NY Lab Id No: 12058

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Perfluorinated Alkyl Acids

8:2FTS	EPA 1633 (Draft)
NEtFOSAA	EPA 1633 (Draft)
NMeFOSAA	EPA 1633 (Draft)
Perflourotridecanoic Acid (PFTrDA)	EPA 1633 (Draft)
Perfluordecanoic Acid (PFDA)	EPA 1633 (Draft)
Perfluorobutanoic Acid (PFBA)	EPA 1633 (Draft)
Perfluorododecanoic Acid (PFDoA)	EPA 1633 (Draft)
Perfluoroheptanoic Acid (PFHpA)	EPA 1633 (Draft)
Perfluorohexanoic Acid (PFHxA)	EPA 1633 (Draft)
Perfluorononanoic Acid (PFNA)	EPA 1633 (Draft)
Perfluorooctanesulfonic Acid (PFOS)	EPA 1633 (Draft)
Perfluorooctanoic Acid (PFOA)	EPA 1633 (Draft)
Perfluoropentanoic Acid (PFPeA)	EPA 1633 (Draft)
Perfluorotetradecanoic Acid (PFTeDA)	EPA 1633 (Draft)
Perfluoroundecanoic Acid (PFUnA)	EPA 1633 (Draft)

Serial No.: 70784

Appendix B

Field Book Contents

AES, Inc. Daily Report Form	AES PROJ. NO.	0948	DATE:	10/16/25
	LOCATION:	2nd Ave., Brooklyn	Day of the week: S M T W (T) F S	
	WEATHER:	48 degrees F, sunny		

Contract Number: SAND1048

Project Description: Reconstruction of Sunset Park, North Section of Brooklyn Waterfront

Location: Lead delineation at 29th Street and 2nd Avenue

Contractor: BeBoe Construction Corp.

Agency: NYCDDC

Brian Pendergast/Mike Amore on-site at 6:30 am. ADT drilling on site at 8:15 am.

Delineation soil borings at hazardous locations SB8 and SB11

Samples collected from borings advanced to 10' bgs.

Samples Collected/Times & Soil Description:

D1 8:38 am
D2 8:47 am
D3* 9:08 am
D4 9:22 am
D5* 9:34 am
D6 10:22 am
D7* 10:32 am
D8* 10:42 am
D9* 11:28 am
D10 11:55 am
D11* 12:42 pm
D12* 12:48 pm
D13 12:57 pm
D14 1:05 pm
D15 1:12 pm
D16* 1:20 pm

* Samples collected from 10' away placed on hold until 5' results are received.

GENERAL COMMENTS

Munoz Engineering inspectors on-site

Samples picked up by Phoenix Labs on 10/20/25

Lab analysis requested: TCLP Lead & Total Lead

Only 5 foot out samples will be analyzed. If any of these locations are hazardous,
10 foot out samples will be analyzed.

Sample D10 (non-haz), collected adjacent to SB11

Sample D13 (non-haz), collected adjacent to SB11

Sample D14 (non-haz), collected adjacent to SB11

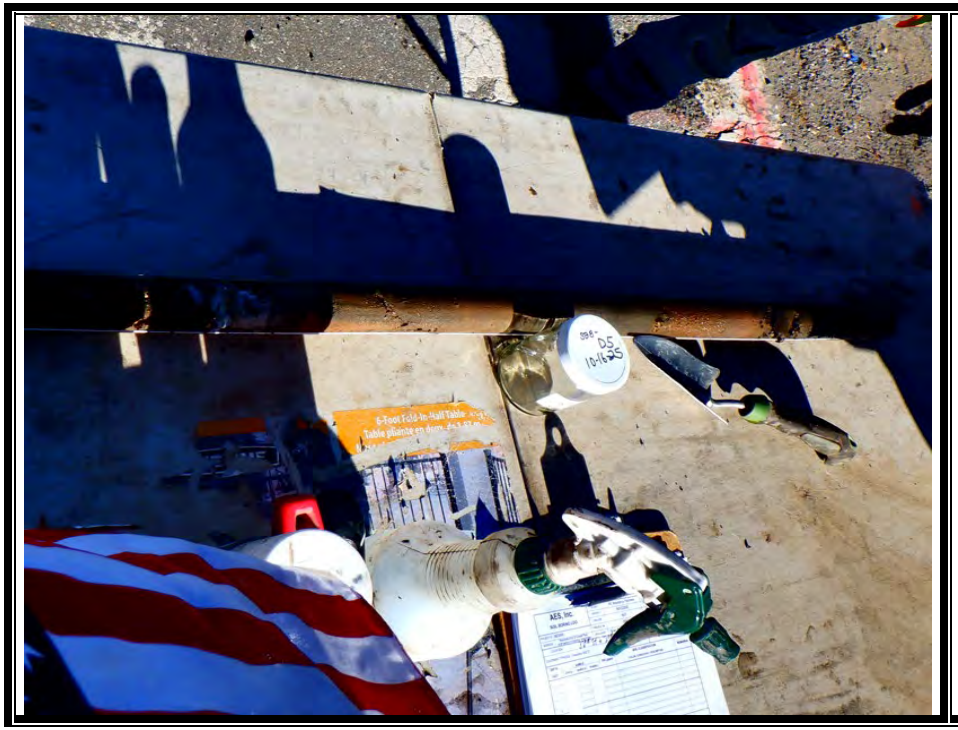
Delineation locations adjacent to SB11

Sample D15 (non-haz), collected adjacent to SB11

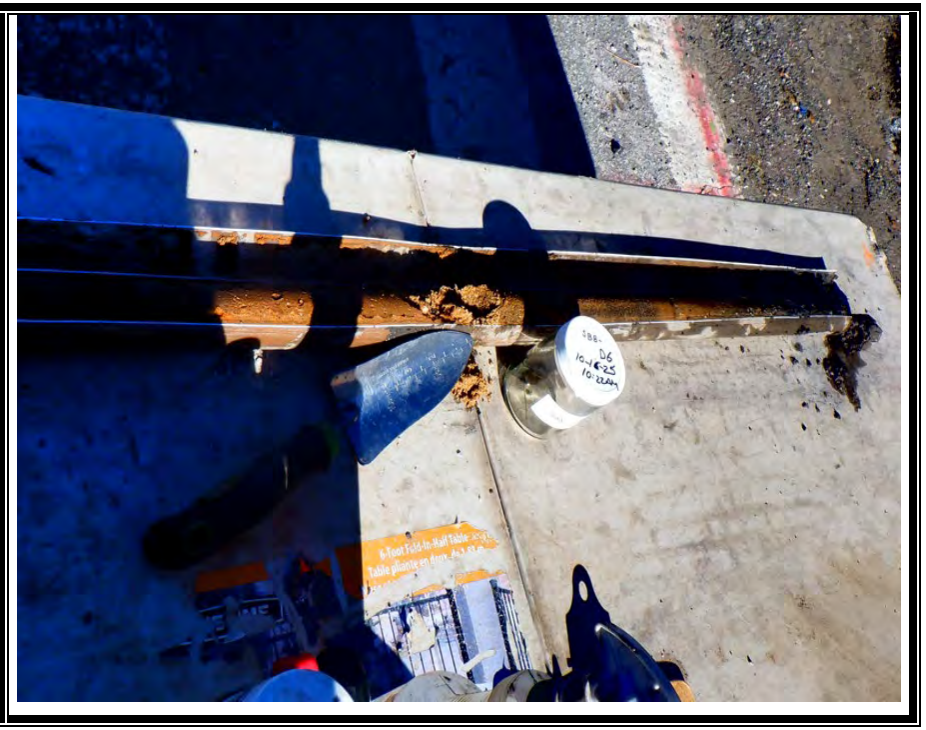
Delineation locations adjacent to SB11

Sample D2 (non-haz), collected adjacent to SB8

Sample D4 (non-haz), collected adjacent to SB8



Sample D5 (hazardous), collected adjacent to SB8



Sample D6 (hazardous), collected adjacent to SB8

Appendix C

Laboratory Qualifications

PHOENIX ENVIRONMENTAL LABORATORIES, INC.

STATEMENT OF QUALIFICATIONS

Phoenix Environmental Laboratories, Inc. is dedicated to accurate analysis, quality data deliverables, rapid turnaround, and consistent performance. We are NELAC accredited and certified in all of New England, NY, NJ, and PA. We strive to meet the needs of our clients and pride ourselves in our ability to remain progressive and forward thinking.

PHOENIX ENVIRONMENTAL LABORATORIES, INC.

587 East Middle Turnpike
Manchester, CT 06040
www.phoenixlabs.com

Toll Free: 800-827-5426
Phone: 860-645-1102
Fax: 860-645-0823

ACCREDITED IN ACCORDANCE WITH nelac

Dependable. Accurate. Quality-focused.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Phyllis Shiller
Laboratory Director

Responsibilities:
Technical Director of Laboratory Operations and Services. Manages laboratory personnel and staffing. Responsible for laboratory scheduling and maintenance of high sample throughput. Provides client interface and management of special projects, technical issues and regulatory matters. Works with QA/QC Manager to ensure all aspects of corporate quality control program are strictly adhered to.

Education:
University of Rhode Island B.S. Chemistry, 1986

Experience:
Twenty-five years of environmental laboratory experience, including positions as QA/QC Director, Inorganic, ICP/GFAA Specialist, Inorganic Manager of a large (CLP) laboratory, Operations Manager, and Laboratory Director.

Bobbi Aloisa
Vice President/Director of Client Services

Responsibilities:
Management of Client Services Operation. Provides client interface with laboratory. Responsible for scheduling report deadlines with the client. Responsible for the generation of reports including progress reports, final reports, and electronic deliverables. Provides second level of review for all reports. Provides immediate review of incoming projects for completeness. Manages program that furthers the laboratory's ability to achieve consistent high levels of performance and quality.

Education:
Manchester Community Technical College A.S. Science, 1994

Experience:
Eighteen years of environmental laboratory experience.

Greg Lawrence
Assistant Laboratory Director

Responsibilities:
Reviewing analytical reports for completeness and conformance with applicable QA/QC requirements, consulting with clients in technical matters and regulatory help. Setting up new procedures. Assisting analysts with specific QC projects.

Education:
University of Hartford, Hartford, CT, Masters Business Admin., 1988
Keene State College, Keene, NH, B.S. Chemistry, 1982

Experience:
Thirty years of environmental laboratory experience, including the position of Laboratory Director since 1985. Background in Organic Instrumentation, AA Spectrometry and Quality Control.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Kathleen Cressia
QA/QC Officer/Microbiology Laboratory Director

Education:
Western Connecticut State University, Danbury, CT, B.A. Earth Science/Biology, 1985
Experience:
Twenty-five years of environmental laboratory experience, including positions as Laboratory Director, Laboratory Operations Manager, QA/QC Manager, Director of Microbiology, Inorganic Manager, and Wet Chemistry Section Leader for a CLP Laboratory.

Raman Makol
Organics Department Manager/Team Leader
Education:
Guru Nanak Dev University, India, M.S. Chemistry, 1986
Guru Nanak Dev University, India, B.S., Chemistry, 1984
Experience:
Twenty-one years of analytical and environmental laboratory experience as an analyst and R&D Specialist.

Keith Aloisa
Organics Department Manager/Team Leader
Education:
Quinnipiac College, Hamden, CT, B.S. Chemistry, 1993
Experience:
Seventeen years of experience in the environmental laboratory field including Organic manager and QA Specialist.

Harry Mullin
GC/MS Analyst
Education:
Providence College, Providence, RI, B.S. Biology, 1986
Experience:
Twenty-five years experience in the environmental laboratory field including Organic Laboratory Manager.

Damien Drobinski
GC/MS Analyst

Education:
Central Connecticut State University, New Britain, CT, B.S. Biology, Chemistry minor, 2001
Experience:
Ten years experience in the environmental laboratory field.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Johanna Harrington
GC Analyst

Education:
University of Connecticut, B.S. Biology, 1996
Experience:
Fourteen years of environmental laboratory experience.

Michael Hahn
GC Analyst
Education:
University of Connecticut- Biological Sciences
Embry-Riddle Aeronautical University- Avionics Engineering
Experience:
Twenty-one years of environmental laboratory experience.

Jeffery Bucko
GC Analyst

Education:
Eastern Connecticut State University, B.A. History, 1991
Experience:
Seventeen years experience in the analytical laboratory field.

Mark Rochette
Laboratory Analyst

Education:
Eastern Connecticut State University, B.S. Earth Science 1992
Experience:
Twelve years of environmental laboratory experience.

Dina Montagna
Sample Prep Day Supervisor

Education:
Springfield College, Springfield, MA, B.S. Biology/Chemistry, 1999
Experience:
Twelve years of environmental laboratory experience.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Tara Banning
Sample Prep Evening Supervisor

Education:
University of Connecticut, B.S. Biology, 2007
Experience:
Three years of environmental laboratory experience.

Leanne Tweedie
Sample Prep Analyst

Education:
Eastern Connecticut State University. Currently attending.
Experience:
Seven years of environmental laboratory experience

Kate Dunfield
Sample Prep Analyst

Education:
Central Connecticut State University, B.S. Biology, 2005
Experience:
Five years of environmental laboratory experience.

Anvarhusen Sheikh
Sample Prep Analyst

Education:
Polytechnic Institute, Valsad Gujarat India, A.S. Chemical Engineering, 1983
Experience:
Eleven years of environmental laboratory experience

Jonathon Carlson
Sample Prep Analyst

Education:
Western Connecticut State University, B.S. Meteorology, 2003
Experience:
Eight years environmental laboratory experience.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Ryan Zannotti
Sample Prep Analyst

Education:
University of Connecticut, B.S. Natural Resource Management/Engineering 2002
Experience:
Four years of environmental laboratory experience.

Susan Nevins
Sample Prep Analyst

Experience:
Eight years of environmental laboratory experience.

Dustin Harrison
Sample Prep Analyst

Experience:
Eight years of environmental laboratory experience.

Veronica Widener
Sample Prep Analyst

Education:
Middlesex Community College, Middletown, CT, A.S. in Biotechnology June 2011
Experience:
Two years of environmental laboratory experience.

Lauren Atwater
Sample Prep Analyst

Education:
Baypath College, Longmeadow, MA, B.S. Forensic Science 2010, M.S. Forensic Science 2012
Experience:
Less than one year environmental laboratory experience.

Teddy Amoaning
Sample Prep Analyst

Education:
University of Connecticut, Storrs, CT, B. A. Environmental Management and Science 2011
Experience:
Less than one year environmental laboratory experience.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Thomas Cowles
Sample Prep Analyst

Education:
University of Connecticut, Storrs, CT, Currently Attending
Experience:
Less than one year environmental laboratory experience.

Emily Kolominskaya
ICP Analyst

Education:
Pharmaceutical College, Zhitomir, Ukraine, Associates Degree in Pharmacology, 1978
Experience:
Thirty-one years of experience in the environmental laboratory field.

Richard E. Schweitzer
GFAA Analyst

Experience:
Twenty-four years of experience in analytical and environmental laboratories. Twenty-one years metals analyses experience.

Tina Hall
ICP/GFAA Analyst

Education:
Hood College, Fredrick, MD, B.A. Biology 1995
Experience:
Fourteen years of environmental laboratory experience.

Rashmi Makol
Microbiology Analyst
Team Leader

Education:
Kurukeshtra University, India, B.S. Chemistry
Experience:
Twelve years of environmental microbiology laboratory experience.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Karl Lamberg
Microbiology/Inorganic Analyst

Education:
University of Hartford, B.A. Biology 2005
Experience:
Seven years of environmental laboratory experience.

Eric Geyer
Inorganic Supervisor

Education:
University of Connecticut, Storrs, CT, B.S. Natural Resources, 1997
Experience:
Fourteen years of environmental laboratory experience.

Kandi Della Bella
Inorganic Analyst

Education:
Saint Joseph College B.S. Natural Science, 1996 M.S. Biology, 2007
Experience:
Four years of environmental laboratory experience.

Joe Lastrina
Inorganic Analyst

Education:
Middlesex Community College, Middletown, CT
Experience:
Thirty-five years of environmental laboratory experience.

Greg Danielewski
Inorganic Analyst

Education:
Capital Community Technical College, Hartford, CT, Assoc. Chemical Engineering Technology, 1993
Experience:
Eighteen years of environmental laboratory experience.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

William McKernan
Inorganic Analyst

Education:
Southern Connecticut State College, B.S. Earth Science 1975, M.S. Earth Science 1980
Experience:
Seven years of environmental laboratory experience.

Cynde Langille
Inorganic Analyst

Education:
Manchester Community College, A.S. Chemistry, 1999
Experience:
Twelve years of environmental laboratory experience.

Laura Kinnon
Inorganic Analyst
Education:
Bridgewater State College, B.S. Chemistry/Geology 2006
Experience:
Ten years of environmental laboratory experience.

Matt Fijolek
Inorganic Analyst

Education:
University of New England, B.S. Marine Biology
Experience:
Six years of environmental laboratory experience.

Brian Sheriden
Inorganic Analyst

Education:
University of Connecticut, B.S. Biology/English, 2001
Experience:
Five years of environmental laboratory experience.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Jean Rawlings
Inorganic Analyst

Education:
Bucknell University, Lewisburg, PA, B.S. Biology 1995
Experience:
Eight years environmental laboratory experience.

Valerie Rowe
Inorganic Analyst

Education:
New Mexico Institute of Mining and Technology, B.S. Chemistry with Biochemistry option, 2007
Experience:
Five years of environmental laboratory experience.

Eric Werner
Inorganic Analyst

Education:
Central Connecticut State University, B.S. Earth Science 2005
Experience:
Seven years of environmental laboratory experience.

Kelly Grey
Inorganic Analyst

Education:
College of Charleston, Charleston, SC, B. A. Biology 2008
Experience:
Less than one year environmental laboratory experience.

CAPABILITIES AND OBJECTIVES

Phoenix Environmental Laboratories, Inc. is dedicated to accurate analysis, quality data deliverables, rapid turnaround, and consistent performance. Our facility in Manchester, CT is custom-designed for high capacity production utilizing highly automated low detection level instrumentation and a computerized Laboratory Information Management System (LIMS). A highly skilled and experienced technical staff assures our clients of high quality, prompt, and reliable results.

Phoenix provides environmental analysis to a wide range of customers with varied requirements. Phoenix is structured to satisfy customer requirements with a consistent level of performance, including those with special and demanding needs. Phoenix has one of the best records in the northeast of meeting rush turnarounds and consistent delivery of rapid standard turnarounds (five business days). This performance and capacity is achieved by:

- Utilizing instrumentation that provides high sensitivity and low detection levels. Detection levels several times lower than method or regulatory requirements are routinely achieved resulting in improvements in analysis particularly with the samples having difficult matrices. Time spent "peaking" instrumentation and/or rerun of analysis is also minimized.
- Instrumentation and equipment are maintained at a high utilization factor through a comprehensive preventive maintenance program and "quick response action plan" for unscheduled maintenance.
- Duplication of major instrumentation preventing delays due to equipment downtime. Maintenance can be performed as required to maintain optimum performance without affecting turnaround time.
- A continuous program of instrument and equipment purchase and upgrade maintains a 50% plus cushion of analytic production capacity and provides quick response to rush turnarounds, high work loads and completion of large projects on schedule.
- An extended work schedule (6:00 a.m. to 11:00 p.m.) with evening shift operation enables our analysts to initiate 100% of the organic and inorganic prep work on the day samples are received. Sample receiving hours from 7:00 A.M. to 7:00 P.M. guarantee that all rush samples are in process the day received even when received as late as 7:00 p.m.
- The level of automation employed by Phoenix is among the highest of any commercial environmental laboratory. Automated instrumentation and equipment is selected to provide improved consistency, accuracy and dependability of analysis, and helps maintain high capacity, consistent quality and rapid response.
- Our analysts are involved in a scheduled cycle of training and cross training designed to achieve specific quality performance benchmarks. Personnel are hired "ahead of need" to allow for training, orientation, and experience prior to entering the production cycle.

GENERAL TERMS AND CONDITIONS

HOURS OF OPERATION/PRIOR NOTIFICATION

Hours of Operation: Sample receiving hours are 7:00 a.m. to 7:00 p.m. Monday through Friday, and 9:00 a.m. to 1:00 p.m. on Saturday. Laboratory operation hours are 6:00 a.m. to 11:00 p.m. Monday through Friday and a limited Saturday schedule. Prior notification is required for delivery of emergency samples.

SAMPLE PICKUP

Phoenix Environmental Laboratories, Inc. offers courier service throughout our service area of Connecticut, New York, New Jersey, Massachusetts, Rhode Island, Vermont, Maine and New Hampshire. Pickups should be scheduled 24 hours in advance. Please contact Phoenix Client Services for sample pickup or emergency response.

TURNAROUND TIMES

Phoenix Environmental Laboratories, Inc. shall make its best effort at meeting all client specified turnaround times. Phoenix shall not however be liable for late delivery of services except as provided by written agreement prior to sample receipt.

SURCHARGE FOR EXPEDITED WORK

Normal turnaround is 5 working days. Results required in less than five working days are assessed a surcharge for accelerated turnaround. Please contact the Sales Department for available turnaround times and applicable charges.

EXPEDITED WORK/RUSH PROJECTS

A computer generated progress report or verbal results will be made available within the agreed time period with the written report available within (1) day following the progress report. Client requirements for "same day" written reports must be approved prior to sample delivery.

DUE DATE

Due date is defined as the date of analysis completion with verbal or computer generated sample progress reports results available "same day" for expedited rush work. Completed written reports are available by 5 p.m. the following day.

SAMPLE RECEIPT

Samples must be received at Phoenix before 5:00 p.m. to be considered as received on that day. Samples received after 5:00 p.m. shall be considered as having been received on the next working day for purposes of calculating turnaround time. Phoenix Environmental Laboratories, Inc. reserves the right to reject samples deemed unsuitable.

SAMPLE HOLDING TIME/PRESERVATION

Customers must deliver all samples to Phoenix within holding time. In the event that samples are received past the established holding time, the client is either notified prior to analysis or "Received past hold" will be noted on the chain of custody. It is the client's responsibility to ensure that all samples are preserved and delivered in accordance with published protocol.

DOCUMENTATION

All samples submitted to Phoenix Environmental Laboratories, Inc. must be accompanied with a completed Chain-of-Custody form.

SAMPLE DISPOSAL/STORAGE

Phoenix will responsibly dispose of most unused samples, while reserving the right to return unused samples to the client. Please consult our sample custodian for additional information. Sample storage will not extend past 30 days from final report date **except by previous arrangement**.

SUBCONTRACTED SAMPLES

A limited number of analyses are subcontracted to licensed laboratories with which Phoenix maintains a contractual agreement. Subcontracted samples maybe subject to extended turnaround times.

RECORD RETENTION

Phoenix shall retain all pertinent records for a period of five (5) years from sample receipt. There may be a minimal charge for the retrieval of these records from archives, should a client request this service.

INORGANICS

Acidity
Alkalinity
Alkalinity bicarbonate
Alkalinity carbonate
Ammonia
Bromide
BOD-5 & 20 Day
Chloride
Chlorine-Free
Chlorine Residual
COD
Color
Conductance
Cyanide-Total
Cyanide-Amenable
Density
Dissolved Oxygen
Flash Point
Fluoride
Hexavalent Chromium
Hardness
Nitrate
Nitrite
Nitrogen-Organic
Nitrogen-Kjeldahl
Nitrogen-Ammonia

Oil & Grease **1664**
Paint Filter Test
pH
Phenols
Phosphate-Ortho
Salinity
Solids-Dissolved
Solids-Fixed
Solids-Settleable
pH
Phenols
Phosphate-Ortho
Salinity
Solids-Dissolved
Solids-Fixed
Solids-Settleable
Solids-Suspended
Solids-Total
Solids-Volatile
Specific Gravity
Sulfate
Sulfide

METALS

Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium-Total
Cobalt
Copper
Gold
Iron
Lead
Manganese
Magnesium
Mercury
Molybdenum
Nickel
Potassium
Selenium
Silicon
Silver
Sodium
Thallium
Tin
Titanium
Tungsten
Vanadium
Zinc
Zirconium
Total RCRA 8 Metals
PP 13 Metals
TAL Metals

Equipment List

Organics GC

(10) Perkin Elmer Autosystem with dual Electron Capture Detectors

(1) Markelov HS 9000 Headspace Analyzer with Perkin Elmer Autosystem with F10

(1) Perkin Elmer Autosystem with Nitrogen Phosphorus Detector

(7) Perkin Elmer Autosystem with Flame Ionization Detectors

(1) Perkin Elmer Autosystem with PID and FID detectors, Tekmar Precept II autosampler and Tekmar 3000 Purge and Trap concentrator

(8) PE Nelson 970 Data Interfaces

(3) PE Nelson 600 Series Link Interfaces

(4) PE Nelson Turbochrom 4.1 Data System

Organics GC/MS

(2) Hewlett Packard 5973 MSD with 6890 GC, Arcon 8100 Autosampler, (2) Tekmar 3000 Purge and Trap concentrators, PT2 switching valve box, HP Chemstation and Enviroquant software

(1) Hewlett Packard 5973 MSD with 6890 GC, Centurion autosampler, Tekmar 3000 Purge and Trap concentrator. HP Chemstation and Enviroquant software

(1) Hewlett Packard 5972 MSD with 5890 GC, Arcon 5100 autosampler, Tekmar 3000 Purge and Trap concentrator, HP Chemstation and Enviroquant software

(1) Hewlett Packard 5973 MSD with 6890 GC, Centurion autosampler, (2) Encon Purge and Trap concentrators

(2) Hewlett Packard 5972 MSD with 5890 GC, 7673 Injector, HP Chemstation and Enviroquant software.

(3) Agilent 5973 MSD with 6890 GC, 7683 injector, HP Chemstation and Enviroquant software

(1) Agilent 5975 MSD with GC, 7683B injector, HP Chemstation and Enviroquant software

(1)Hewlett Packard 5973 MSD with 6890 GC, Arcon 8100 autosampler, (2) EST Encon Purge and Trap concentrators, PT2 switching valve box

Organics HPLC

(2) Hewlett Packard 1090 Series II HPLC with Diode Array Detectors, (DAD), HP programmable autosampler, Pickering 8100 Post Column Derivatization unit, and HP Fluorescence Detector

Air Laboratory

(1) Agilent 5975 with 7890 GC and HP Chemstation

(1) Entech 7100AR Cryogenic concentrator- cold trap dehydration

(1) Entech 7500A minican Autosampler with 9 auxillary positions.

(1) Entech 3100A canister cleaner accompanied with Thermoscience oven

(1) Entech 4600A Dynamic Dilutor

Organics TOC/TOX

(1) GE Sievers InnovOx Lab TOC Analyzer with Sievers 900 Autosampler

(1) Elementar Liqui-TOC Analyzer with 53 position Autosampler

(1) Dohrmann DX-2000 Total Organic Halide (TOX) Analyzer

(1) Dohrmann DX-20 Total Organic Halides (TOX) Analyzer

Metals

(1) Spectro Ciros 37 Channel Simultaneous Axial Plasma ICP Spectrometer with Autosampler and Smart Analyzer software

(1) Spectro Arcos 37 Channel Simultaneous Axial Plasma ICP Spectrometer with Autosampler and Smart Analyzer software

(1) Perkin Elmer AAnalyst 600 Atomic Absorption Spectrophotometer (AA) with graphite furnace, Zeeman background & AS 800 Autosampler

(1) Perkin Elmer 5100 Atomic Absorption Spectrophotometer (AA) with graphite furnace, autosampler, mercury cold vapor, and hydride system

(1) PSA Mercury Fluorescence System with autosampler and mercury cold vapor

Prep Department

(1) Supelco Visirep 24 position Solid Phase Extraction

(48) Liquid/Liquid Extraction Systems

Equipment List

(7) Zymark TurboVap II Automated Sample Concentration Workstations
(2) Precision Scientific 8 Position Water Baths
(1)Vacuum and Pressure Filtration System, 11 positions
(2) Branson DHA1000 Ultrasonic Cleaners
(2) VWR 250D Ultrasonic Cleaners
(12) Millipore Zero Headspace Extraction Chambers
(3) Millipore TCLP Rotary Extractors, 12 positions total
(3) Multi Position TCLP Rotation Extraction Systems
(8) Dionex ASE200 Accelerated Solvent Extractor
(9) Brinkman Manual Soxhlet Extractors- 5 position
(4) Gerhardt Automatic Soxhlet Extractors- 6 position
(3) Environmental Express AutoBlock Digesters, 54 Position
(3) Environmental Express HotBlocks Digesters, 54 Position

(1) IEC Centra-8 Centrifuge
(2) Tekmar TM600- Dual Horn Sonic Disruptors
(5) Metler PB1502 Balances
(1) PlasLabs 863-CG Dessicator
(1) Blue M DC336F Oven
(1) VWR 1300U Oven
(1) GCA/Precision Scientific Gravity Convection Oven
(1) GlasCol 3D Separatory Funnel Shaker, 8 position
(1) GlasCol 3D Separatory Funnel Shaker, 4 position

Wet Lab

(1) Lachat Quikchem 8000 Dual Channel Wet Chem Autoanalyzer with 360 Position Autosampler
(1) Lachat Quikchem 8500 Four Channel Wet Chem Autoanalyzer with 360 Position Autosampler
(1) Spectronic 21D UV/VIS Spectrophotometer
(1) Buck Model 404 Total Petroleum Hydrocarbon IR analyzer
(1) Pall Cascada Ultra Pure DI Water Systems
(2) YSI 33 Salinity, Conductance, Turbidity Meter
(3) Precision 2020 BOD Incubators, High Volume
(1) YSI 52 Oxygen Meter (BOD)
(1) VWR 8000 pH meter
(4) Precision Scientific Pensky-Martens Flash Point Testers
(1) Labline DuoVac 1520 Vacuum Drying Oven
(1) Beckman f 12 Meter (Fluoride/Chloride)
(1) Orion 162 Conductivity Meter
(1) Man-Tech GX271 Liquid Handler (pH, Alkalinity, Conductivity, Turbidity)
(1) Mettler AB104-S Analytical Electronic Balance
(1) Mettler XS-104 Analytical Electronic Balance
(1) SciLab TM1028 Freon Recycling Apparatus
(3) LabCrest Midi Distillation Systems, 10 position
(3) AIM 500 Automated Block Digestors, 28 position
(1) Dionex DX120 Ion Chromatograph with autosampler
(1) Dionex ICS2000 Ion Chromatograph with autosampler
(1) Hitachi U1100 Spectrophotometer
(2) Beckman DU640 Spectrophotometer
(1) Thermolyne 48000 Furnace
(1) Hach COD reactor, 25 position
(3) Horizon SpeedVap II 9000 Solvent Evaporation System
(1) Hach 2100AN Turbidimeter
(1) VWR 750HT Ultrasonic Cleaner
(1) GlasCol 3D Separatory Funnel Shaker, 8 position
(1) CAI SmartBlock 226 COD Digester, 100 position

Microbiology

(1) Baush & Lomb and Spencer Microscope
(3) GCA Precision Coliform Incubator Bath
(1) Precision Gravity Convention Incubator
(1) Market Forge Sterilmatic Autoclave
(1) Vacuum Filtration System, 3 position
(1) Elconap Incubator
(1) Reihert-Juns Quebec Darkfield Colony Counter
(1) Spectroline EA-160 UV light (366 nm)
(1) American UV Company UV box (254 nm)

INTRODUCTION

Phoenix Environmental Laboratories, Inc. is committed to providing the highest quality laboratory data available. All laboratory analyses are performed in full compliance within applicable State or Federal Quality Control guidelines. The Quality Assurance (QA) and Quality Control (QC) program is defined in the Laboratory Quality Assurance Plan and the Laboratory Standard Operating Procedures (SOP) Manual. The Quality Assurance program meets or exceeds EPA recommended guidelines with quality control samples accounting for at least 20% of the total number of samples analyzed. The Quality Assurance Office ensures that facilities, equipment, personnel, testing methods, data and QC procedures are in conformance with the Standard Operating Procedures (SOPs) of Phoenix Environmental. This Office also ensures that QC procedures are applicable with EPA Quality Control guidelines.

Each laboratory project is monitored through application of a Quality Assurance Program, which includes the following elements:

- ◊ Centralized Project files
- ◊ Written Standard Operating Procedures
- ◊ Rigorous Chain-of-Custody procedures
- ◊ Documentation of nonconformance events and corrective actions taken
- ◊ Periodic inspections of projects in progress
- ◊ Frequent equipment calibration and maintenance inspections
- ◊ Archiving of project records under controlled access

ASSIGNMENT OF RESPONSIBILITIES

Roles and Responsibilities

The goal of the Quality Assurance Program is to assure that data generated by Phoenix Environmental is of the highest quality available. To reach this goal, the program seeks to develop policies and procedures to monitor, maintain and improve data quality, and to maintain the necessary documentation of laboratory performance. A list of responsibilities is detailed in the next few pages.

Director of Quality Assurance

The Director of Quality Assurance has overall responsibility for the development and administration of the Quality Assurance Program. This effort may be supported by Quality Assurance Specialists. An analytical quality control program is conducted to ensure the production of valid data. The Director of Quality Assurance supervises implementation of the analytical Quality Control Program and interacts with the project staff in determining corrective action procedures.

Other duties include:

- ◊ Preparing written documents defining QA/QC Procedures
- ◊ Reviewing and approving Standard Operating Procedures

- ◊ Maintaining copies of all current procedures
- ◊ Scheduling and performance of quality audits
- ◊ Employee training in QA/QC techniques
- ◊ Maintaining current knowledge of approved methods and other regulatory requirements
- ◊ Overseeing interlaboratory and Performance Evaluation testing programs
- ◊ Serving as a liaison to regulatory agencies in Quality Assurance matters
- ◊ Reviewing Nonconformance Reports and corrective actions to assure that operations have been appropriately corrected
- ◊ Informing management of the status of the Quality Assurance Program
- ◊ Continually assessing the Quality Assurance Program

The Director of Quality Assurance has the final authority to stop or change any incorrect or improper sampling or analytical procedure to assure data quality.

Quality Assurance Staff

The Quality Assurance Staff has the responsibility and authority to monitor any phase of laboratory operations. Their functions include:

- ◊ Preparing and submitting blind QC check samples to the lab and evaluating lab performance
- ◊ Checking the outcome of QC Samples to assure that control limits are being met and internal SOPs for control chart analyses are followed
- ◊ Performing inspections of lab operations and records to assess compliance with SOPs and contract requirements
- ◊ Preparing of reports of lab inspections and data reviews for the Director of Quality Assurance and lab management
- ◊ Immediately notifying the Director of quality Assurance of nonconformance events, which have not been resolved.
- ◊ Assisting in the preparation of SOPs
- ◊ Reviewing and approving performance evaluation sample results prior to submission to regulatory agencies
- ◊ Ensuring that all standards are traceable to NBS or EPA provided materials
- ◊ Performing duties of the Director of Quality Assurance in the manager's absence

Laboratory Management

The laboratory management has the responsibility for the direction of the laboratory sections to follow the QA/QC program. This obligation is met through the following steps:

- ◊ Recruiting, hiring, and training of suitably qualified personnel
- ◊ Allocation of sufficient resources including staff, time, materials and equipment, to complete required tasks
- ◊ Integration of Quality Control measures into the Job Descriptions of laboratory personnel so that each employee is responsible for the quality of the work they produce
- ◊ Effective response to corrective action requirements identified by Quality Assurance
- ◊ Assignment of Standard Operating Procedure development as required by Quality Assurance
- ◊ Review and approval of SOPs

Laboratory Supervisors

Laboratory Supervisors are an integral part of the implementation of the quality Assurance/Quality Control program. Each Supervisor is responsible for the quality of the data generated by their group. All activities performed in the lab section must comply with the internal Standard Operating Procedures and individual contract requirements. It is the responsibility of the Supervisor to train analytical personnel, prepare and update SOPs for each operation, and instruct analysts to perform QC checks at the appropriate intervals. The Supervisor reviews data and assures that all QC criteria for each data set have been met before releasing results for reporting. Additionally, it is the responsibility of the Supervisor to document nonconformance events and corrective action taken.

Chemists and Lab Technicians

It is the responsibility of the individual analysts to follow the appropriate methods, documenting their activities and results concisely, and implementing the QC checks as required by the contract and/or Phoenix Environmental SOP manual. The analysts are expected to produce data of measurable quality and, therefore, must evaluate the outcome of QC samples as part of the regular analytical procedure. Individual analysts, as the first line of quality control, must identify quality problems and initiate a Nonconformance Report.

COMMUNICATIONS

The Quality Assurance Office communicates with other laboratory sections in two predominant methods, by regular production meetings and by memorandum or report.

Production meetings are held at least weekly between the General Manager, Laboratory Director, Client Services Staff, and the Director of Quality Assurance. In addition to production planning, marketing efforts, and laboratory management issues, Quality Assurance concerns are discussed. This forum provides immediate access to responsible individuals for the resolution of Quality Assurance concerns. Decisions made are documented in memoranda following the meeting.

Reports are issued to document findings of audits, inspections, and data reviews performed by the Quality Assurance Office. Findings and recommendations are then issued to supervisors responsible for the work reviewed. The Supervisor responds to each of the findings and documents corrective actions. The report is then circulated to management for review. Quality Assurance verifies that corrective actions have been implemented and then files the report in Quality Assurance Office files.

Memoranda are generally issued to communicate results of P.E. studies, to document problems brought to the attention of Quality Assurance, and as a form of written communication to keep laboratory staff and management informed of activities related to Quality Assurance.

DOCUMENT CONTROL

Quality Assurance reports are maintained in locked file cabinets which are separate from other study records. Quality Assurance records are often direct and forthright in addressing problems. Allowing these records to become public knowledge would hinder the performance of the Quality Assurance Office. Thus, these records are considered most confidential and are not available for inspection by persons outside the company.

Original copies of Standard Operating Procedure documents are maintained in the Quality Assurance files. Additionally, a historical file of obsolete SOP's is also maintained. Distribution lists of SOP documents are maintained by the Quality Assurance Office.

Document control of the Quality Assurance Program Plan is basically the same as that described for the SOP documentation described above. A current and historical file system, distribution list and limited copies of the document are used in the production of the QAPP to maintain its integrity.

The Quality Assurance Office is also charged with the maintenance of the Methods Library. Methods are obtained by the Quality Assurance Office and the originals maintained on file. Duplicates or copies of these methods are distributed to laboratory management and personnel. A historical file is maintained for methods which have become obsolete, to be used as a reference tool. When new methods are issued, the Quality Assurance Office is responsible for obtaining the new method, distributing it to those who require it, and when required, informing those persons that the new method supersedes an old method.

QUALITY ASSURANCE PROGRAM ASSESSMENT

The Director of Quality Assurance and the staff of the Quality Assurance Office conduct periodic assessments of the total Quality Assurance Program. Based upon these assessments and an annual review of the Quality Assurance Program Plan, an annual written status report of Quality Assurance activities and progress is forwarded to the Laboratory Director. This report is used to define areas of focus for the coming year and will determine changes required in the Quality Assurance Program Plan.

PERSONNEL QUALIFICATIONS

Introduction

Phoenix Environmental Laboratory, Inc. is staffed by individuals with the scientific and technical expertise needed to serve the analytical needs of our clients. These employees have been chosen based upon their education, training and experience to ensure that the employees of Phoenix Environmental can perform their assigned tasks and successfully follow their chosen career paths.

Phoenix Environmental provides its employees with opportunities for continuing education and training so that our employees may grow with the company. This benefits not only employees, but also clients by ensuring accuracy and proficiency on all contracted analyses.

Qualifications

Phoenix Environmental has minimum Education and Experience qualifications for all job functions within the laboratory. In-house training programs and policies augment these basic education and experience requirements by supplying additional information about technical subjects, safety,

corporate policy, quality assurance, and supervisory and manager techniques.

Documentation of personnel qualifications and training is accomplished through the use of a standardized qualification system. For each position, critical training and skills requirements have been identified including: organizational orientation, safety training, quality control procedures training, technical training and analytical skills requirements. The employee must have attended acceptable training seminars or have shown proficiency in each area before the supervisor documents qualification.

Training

It is the policy of Phoenix Environmental that additional education and training is encouraged. To this end, tuition reimbursement may be provided for those individuals who would like to take relevant course work either in or outside of a degree program.

New employees are trained on a one-on-one basis with their supervisor or assigned individual. Until the trainer is convinced of the ability of the new employee, the new employee may not perform analysis on client supplied samples. After initial training, an employee's performance is monitored by his or her supervisor for compliance with quality, production and safety goals.

Training is routinely performed upon the introduction of new instruments into the laboratory. Training is also presented in the form of seminars given to explain new methods, techniques and procedures. These courses generally are given by senior level personnel for the benefit of those with less experience.

QUALITY ASSURANCE AUDIT PROGRAM

Introduction

The Quality Assurance Department is responsible for conducting periodic inspections (audits) of the quality systems, data generation, and support systems of the laboratory. The purpose of the internal audits is to assist management in identifying and correcting deficiencies and to reinforce acceptable practices. This ensures that services meet the requirements of the Laboratory Quality Assurance Program as well as the requirements of the client.

These inspections help to ensure that the policies of the laboratory for production of high quality data are being followed. Policies include laboratory standard operating procedures, instrument procedures, sample preparation procedures, and data review policies. If discrepancies are found, corrective action is taken. Two types of audits are in place: Systems and Performance Audits. Additionally, there are routine data audits, independent audits, and audits for subcontracted services.

System Audits

A Systems Audit is an inspection and review of an entire data-generation and support system. Quality -related activities are reviewed, assessed, and compared against the Quality Assurance Program requirements for compliance. The audit includes the evaluation of personnel, facilities, Standard Operating Procedures (SOPs), and records. Systems Audits generally follow performance audits (usually by state or EPA auditors, required for certification and contract awards) and may be instituted as part of corrective action monitoring programs. These are done at least twice per year.

If deficiencies are observed during a performance audit, the Director of Quality Assurance or his/her designee evaluates the audit report and initiates a follow-up Systems Audit, with emphasis on actions

Assurance Program or have in place an equivalent program of their own. Potential subcontractors are reviewed by the Phoenix Environmental Quality Assurance Office for suitability.

The Quality Assurance office may evaluate the Quality Assurance program of the subcontractor through review of the laboratory's written Quality Assurance Program Plan, the Quality Assurance Project Plan (where applicable), Quality Control SOPs, typical SOPs, and latest applicable USEPA performance evaluation sample results. If PE results are not available for the subcontracted parameters, Phoenix Environmental may submit blind PE samples to the subcontractor. Successful completion is required. An on-site audit of the facility may be performed when deemed necessary by the Director of Quality Assurance.

Nonconformance Event Corrective Action and Documentation

Documentation of analytical problems and corrective action taken is an essential part of the data record for each project. Identification, implementation, and monitoring of the actions that would have prevented the analytical problem provide methods for improving the quality of laboratory performance. A Nonconformance Report has been designed to record problems, corrective actions, impact on analytical results, and suggested preventive actions for the future.

The Nonconformance Report shows complete background information about the event. The Nonconformance Report is initiated by the person experiencing or noticing the discrepancy and completed by his or her supervisor. Copies of the completed reports are distributed to the Laboratory Director, the Client Services Manager, and the Director of Quality Assurance. The Client Services manager reviews the Nonconformance Report and then places a copy of the report into the Project File. If the event has caused any impact on the analytical results, the Client Services Manager meets with the Director of Quality Assurance and then communicates with the client, either personally or through the staff of the Client Services group.

Data Review and Validation

Phoenix Environmental performs data review and validation studies on all data packages generated. Data validation is the process whereby data are accepted or rejected based upon defined criteria. Information concerning the sample history, sample preparation, Quality Control data, and other factors are used in the judgment of the validity of results. Each sample's history, from sample receipt to reporting, must be documented. Steps taken in this documentation are described in the SOPs on chain-of-custody and document control. Dated and signed entries by appropriate personnel on all worksheets and logbooks are required for data validation. One must be able to track the progress of the samples through the laboratory with the use of the sample tracking system. Finally, Quality Control information is judged against set criteria to accept or reject data. Criteria used to accept or reject data are dependent upon the methodology, the client's requirements, and the eventual use of the data. Where applicable, sample flags or qualifier codes are used to qualify data. All data receive a 100% review by either a supervisor or a second analyst of equal or higher experience and responsibility.

Quality Control Samples

Data quality is evaluated by the performance of quality control sample analysis, including:

Method Blanks

Surrogate Spikes

Matrix Spikes and Duplicates

Sample Duplicate Analysis

Laboratory Control Samples (QC's)

Calibration Check Samples

Field Blank Samples

Trip Blank Samples

Storage Blank Samples (if applicable)

The particular types and frequency of QC samples processed with production samples are determined by the requirements of the client. Most common needs are those presented in EPA SW-846, state requirements, project requirements, customer requirements, and those requirements specified in our SOPs.

Information obtained from Quality Control samples listed above is used to assess the quality of the data generated and is useful in identifying problems in the sampling process. It is also useful in identifying situations in the shipment of samples, in the storage of samples, in the analysis of samples, and even helps in identifying problems in the analysis of the samples caused by the samples themselves.

Blind Quality Control Samples

The Quality Assurance Office may formulate blind samples for submission to the laboratory for analysis. The samples are produced by the quality Assurance Office from standard reference materials. Sample sets usually contain blanks and replicates of known concentration. Analysis of the data produced from these sets is used to assess quality of data produced by the laboratory for accuracy.

Quality Control Charts

Phoenix Environmental offers a variety of analytical services using EPA approved methodologies. The QC requirements for accuracy and precision are mandated by the method, the client's needs and the regulatory authority under which the work is being performed. In the October 31, 1984 F.R., it is recommended that the laboratory periodically update these control limits based on historical data. It is the policy of Phoenix Environmental to establish Control Charts for each analysis which will be updated as new data is generated. Warning and control limits are based plus and minus two and three standard deviations from the mean, respectively.

All QC sample results are tabulated immediately following analysis and compared to the contract-mandated, method-mandated, or client-mandated control limits for precision and accuracy. Out-of-control results are cause for immediate generation of a Nonconformance Report and possible re-extraction and/or re-analysis. No outlying data are ever released until the laboratory has verified that unacceptable results are attributable to the sample matrix.

The laboratory has developed QC Log Books for recording of QC data by the analyst immediately after it is acquired. This allows the analyst to ascertain immediately the validity of the QC data and to act, if required, in the event of an out of control situation. QC data are recorded by analytical methodology employed and instrumentation used.

The following information shall be submitted to establish quality assurance criteria with each work order at no extra charge.

STABILITY OF SAMPLES ANALYZED

Date of both sample preparation and analysis are included in the data report.

PERFORMANCE OF ANALYTICAL INSTRUMENTATION

Method reporting limits (detection limits) are included in the data report.

TRIP OR FIELD BLANK

As required, one trip or field blank shall be analyzed for each sampling day with each work order submitted.

ACCURACY AND PRECISION IN ANALYSIS

One sample per analytical batch shall be spiked and run in duplicate. The results shall be reported in the final report upon request of the client.

SURROGATE ANALYSIS

All samples submitted for organic analysis shall be spiked with EPA approved surrogate compounds. The results shall be reported as percent recovery and summarized in the data report.

METHOD BLANKS

Method blanks will be analyzed as per the specific methodologies and reported as part of the final data report.

CERTIFICATION

The report cover letter shall be signed by the project manager and /or laboratory supervisor. All raw data including bench sheets and QA summary forms shall be reviewed and initialed by the analyst and the section supervisor.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Bacteriology

Coliform, Total / E. coli (Qualitative)	SM 21, 23 9222A,B,C
	SM 20, 21-23 9223B (-04) (Colilert)
E. coli (Enumeration)	SM 21, 23 9222A,B,C
	SM 20, 21-23 9223B (-04) (Colilert)
Enterococci	SM 23 9230D (Enterolert)
Heterotrophic Plate Count	SM 20, 21-23 9215B (-04)

Chlorinated Acids

2,4,5-TP (Silvex)	EPA 515.3
2,4-D	EPA 515.3
Dalapon	EPA 515.3
Dicamba	EPA 515.3
Dinoseb	EPA 515.3
Pentachlorophenol	EPA 515.3
Picloram	EPA 515.3

Disinfection By-products

Bromochloroacetic acid	EPA 552.2
Dibromoacetic acid	EPA 552.2
Dichloroacetic acid	EPA 552.2
Monobromoacetic acid	EPA 552.2
Monochloroacetic acid	EPA 552.2
Trichloroacetic acid	EPA 552.2

Fuel Additives

Methyl tert-butyl ether	EPA 524.2
Naphthalene	EPA 524.2

Metals I

Arsenic, Total	SM 19, 21-23 3113B (-04,-10)

Serial No.: 72069

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Metals I

Arsenic, Total	EPA 200.9 Rev. 2.2
	EPA 200.8 Rev. 5.4
Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Copper, Total	EPA 200.5
	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Iron, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.5
	SM 19, 21-23 3113B (-04,-10)
	EPA 200.9 Rev. 2.2
	EPA 200.8 Rev. 5.4
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Mercury, Total	EPA 245.1 Rev. 3.0
Selenium, Total	SM 19, 21-23 3113B (-04,-10)
	EPA 200.9 Rev. 2.2
	EPA 200.8 Rev. 5.4
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Serial No.: 72069

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Antimony, Total	SM 19, 21-23 3113B (-04,-10)
	EPA 200.9 Rev. 2.2
	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Molybdenum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Thallium, Total	SM 19, 21-23 3113B (-04,-10)
	EPA 200.9 Rev. 2.2
	EPA 200.8 Rev. 5.4
Vanadium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Metals III

Boron, Total	EPA 200.7 Rev. 4.4
Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4
Uranium (Mass)	EPA 200.8 Rev. 5.4

Methylcarbamate Pesticides

3-Hydroxy Carbofuran	EPA 531.2
Aldicarb	EPA 531.2

Serial No.: 72069

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Methylcarbamate Pesticides

Aldicarb Sulfone	EPA 531.2
Aldicarb Sulfoxide	EPA 531.2
Carbaryl	EPA 531.2
Carbofuran	EPA 531.2
Methomyl	EPA 531.2
Oxamyl	EPA 531.2

Microextractables

1,2,3-Trichloropropane, Low Level	EPA 504.1
1,2-Dibromo-3-chloropropane, Low Le	EPA 504.1
1,2-Dibromoethane, Low Level	EPA 504.1

Miscellaneous

1,4-Dioxane	EPA 522
Benzo(a)pyrene	EPA 525.3
Bis(2-ethylhexyl) phthalate	EPA 525.3
Di (2-ethylhexyl) adipate	EPA 525.3
Diquat	EPA 549.2
Glyphosate	EPA 547
Hexachlorobenzene	EPA 525.3
Hexachlorocyclopentadiene	EPA 525.3
Odor	SM 21-23 2150 B (-97)
Organic Carbon, Dissolved	SM 21-23 5310B (-00)
Organic Carbon, Total	SM 21-23 5310B (-00)
Surfactant (MBAS)	SM 21-23 5540C (-00)
Turbidity	SM 21-23 2130 B (-01)
UV 254	SM 21-23 5910B (-00,-11)

Serial No.: 72069

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Non-Metals

Alkalinity	SM 21-23 2320B (-97)
Calcium Hardness	EPA 200.7 Rev. 4.4
	SM 18-22 2340B (-97)
Chloride	EPA 300.0 Rev. 2.1
	SM 21-22 4500-Cl- E (-97)
Color	SM 21-23 2120B (-01)
Cyanide	EPA 335.4 Rev. 1.0
Fluoride, Total	EPA 300.0 Rev. 2.1
	SM 21-23 4500-F C (-97)
Nitrate (as N)	EPA 353.2 Rev. 2.0
	EPA 300.0 Rev. 2.1
Nitrite (as N)	EPA 353.2 Rev. 2.0
	EPA 300.0 Rev. 2.1
Orthophosphate (as P)	SM 19, 21-23 4500-P F (-99)
	SM 19, 21-23 4500-P E (-99)
Solids, Total Dissolved	SM 21-23 2540C (-97)
Specific Conductance	SM 21-23 2510B (-97)
Sulfate (as SO4)	EPA 300.0 Rev. 2.1

Organohalide Pesticides

Alachlor	EPA 525.3
Aldrin	EPA 525.3
Atrazine	EPA 525.3
Butachlor	EPA 525.3
Chlordane Total	EPA 525.3
Dieldrin	EPA 525.3
Endrin	EPA 525.3
Heptachlor	EPA 525.3

Serial No.: 72069

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Organohalide Pesticides

Heptachlor epoxide	EPA 525.3
Lindane	EPA 525.3
Methoxychlor	EPA 525.3
Metolachlor	EPA 525.3
Metribuzin	EPA 525.3
Propachlor	EPA 525.3
Simazine	EPA 525.3
Toxaphene	EPA 525.3

Polychlorinated Biphenyls

PCB Screen	EPA 508

Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2

Serial No.: 72069

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Volatile Aromatics

Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2

Serial No.: 72069

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Volatile Halocarbons

Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

Serial No.: 72069

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Acrylates	
Acrolein (Propenal)	EPA 8260D
	EPA 624.1
Acrylonitrile	EPA 8260D
	EPA 624.1
Amines	
1,2-Diphenylhydrazine	EPA 625.1
	EPA 8270E
2-Nitroaniline	EPA 8270D
	EPA 8270E
3-Nitroaniline	EPA 8270E
4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270E
Aniline	EPA 625.1
	EPA 8270E
Carbazole	EPA 625.1
	EPA 8270E
Pyridine	EPA 625.1
	EPA 8270E
Bacteriology	
Coliform, Fecal	SM 9222D-2015
	Colilert-18
Coliform, Total	SM 9222B-2015
E. coli (Enumeration)	m-Coliblue24
	Colilert-24
	SM 9223B-2016
	Colilert-18

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Bacteriology

Enterococci	SM 9230D-2013 (Enterolert)
Heterotrophic Plate Count	SM 18-21 9215B

Benzidines

3,3'-Dichlorobenzidine	EPA 625.1
	EPA 8270E
Benzidine	EPA 625.1
	EPA 8270E

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
	EPA 608.3
4,4'-DDE	EPA 8081B
	EPA 608.3
4,4'-DDT	EPA 8081B
	EPA 608.3
Aldrin	EPA 8081B
	EPA 608.3
alpha-BHC	EPA 8081B
	EPA 608.3
alpha-Chlordane	EPA 8081B
beta-BHC	EPA 8081B
	EPA 608.3
Chlordane Total	EPA 8081B
	EPA 608.3
delta-BHC	EPA 8081B
	EPA 608.3
Dieldrin	EPA 8081B

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Chlorinated Hydrocarbon Pesticides

Dieldrin	EPA 608.3
Endosulfan I	EPA 8081B
	EPA 608.3
Endosulfan II	EPA 8081B
	EPA 608.3
Endosulfan sulfate	EPA 8081B
	EPA 608.3
Endrin	EPA 8081B
	EPA 608.3
Endrin aldehyde	EPA 8081B
	EPA 608.3
Endrin Ketone	EPA 8081B
Heptachlor	EPA 8081B
	EPA 608.3
Heptachlor epoxide	EPA 8081B
	EPA 608.3
Lindane	EPA 8081B
	EPA 608.3
Methoxychlor	EPA 8081B
	EPA 608.3
PCNB	EPA 8270E
Toxaphene	EPA 8081B
	EPA 608.3
trans-Chlordane	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
1,2,4,5-Tetrachlorobenzene	EPA 8270E

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Chlorinated Hydrocarbons

1,2,4-Trichlorobenzene	EPA 625.1
	EPA 8270E
2-Chloronaphthalene	EPA 625.1
	EPA 8270E
Hexachlorobenzene	EPA 8081B
	EPA 625.1
	EPA 8270E
Hexachlorobutadiene	EPA 625.1
	EPA 8270E
Hexachlorocyclopentadiene	EPA 625.1
	EPA 8270E
Hexachloroethane	EPA 625.1
	EPA 8270E

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
2,4-DB	EPA 8151A
Dalapon	EPA 8151A
Dicamba	EPA 8151A
Dichloroprop	EPA 8151A
Dinoseb	EPA 8151A
Pentachlorophenol	EPA 8151A

Demand

Biochemical Oxygen Demand	SM 5210B-2016
Carbonaceous BOD	SM 5210B-2016

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Demand	
Chemical Oxygen Demand	SM 5220D-2011
Fuel Oxygenates	
Di-isopropyl ether	EPA 8260D
Ethanol	EPA 8260D
	EPA 8015D
Methyl tert-butyl ether	EPA 8260D
	EPA 624.1
tert-amyl alcohol	EPA 8260D
tert-amyl methyl ether (TAME)	EPA 8260D
tert-butyl alcohol	EPA 8260D
tert-butyl ethyl ether (ETBE)	EPA 8260D
Haloethers	
2,2'-Oxybis(1-chloropropane)	EPA 625.1
	EPA 8270E
4-Bromophenylphenyl ether	EPA 625.1
	EPA 8270E
4-Chlorophenylphenyl ether	EPA 625.1
	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 625.1
	EPA 8270E
Bis(2-chloroethyl)ether	EPA 625.1
	EPA 8270E
Low Level Halocarbons	
1,2,3-Trichloropropane, Low Level	EPA 8011
1,2-Dibromo-3-chloropropane, Low Le	EPA 8011
1,2-Dibromoethane, Low Level	EPA 8011

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Low Level Polynuclear Aromatics

Acenaphthene Low Level	EPA 8270E SIM
Acenaphthylene Low Level	EPA 8270E SIM
Anthracene Low Level	EPA 8270E SIM
Benzo(a)anthracene Low Level	EPA 8270E SIM
Benzo(a)pyrene Low Level	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270E SIM
Benzo(g,h,i)perylene Low Level	EPA 8270E SIM
Benzo(k)fluoranthene Low Level	EPA 8270E SIM
Chrysene Low Level	EPA 8270E SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270E SIM
Fluorene Low Level	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E SIM
Naphthalene Low Level	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270E SIM
Pyrene Low Level	EPA 8270E SIM

Metals I

Barium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Cadmium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 7010
	SM 3113B-2010
	EPA 200.8, Rev. 5.4 (1994)

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Metals I

Calcium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Chromium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Copper, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Iron, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Lead, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 7010
	SM 3113B-2010
	EPA 200.8, Rev. 5.4 (1994)
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Manganese, Total	EPA 200.7, Rev. 4.4 (1994)

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Metals I

Manganese, Total	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Nickel, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Potassium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Silver, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 7010
	SM 3113B-2010
	EPA 200.8, Rev. 5.4 (1994)
Sodium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Strontium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 200.8, Rev. 5.4 (1994)

Metals II

Aluminum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Metals II

Aluminum, Total	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Antimony, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 7010
	SM 3113B-2010
	EPA 200.8, Rev. 5.4 (1994)
Arsenic, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 7010
	SM 3113B-2010
	EPA 200.8, Rev. 5.4 (1994)
Beryllium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Chromium VI	EPA 7196A
	SM 3500-Cr B-2011
Mercury, Total	EPA 245.1, Rev. 3.0 (1994)
	EPA 7470A
	EPA 7473
Selenium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 7010

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Metals II

Selenium, Total	SM 3113B-2010
	EPA 200.8, Rev. 5.4 (1994)
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Zinc, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)

Metals III

Cobalt, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Gold, Total	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Thallium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 7010
	SM 3113B-2010
	EPA 200.9 Rev. 2.2 (1994)

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Metals III	
Thallium, Total	EPA 200.8, Rev. 5.4 (1994)
Tin, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Titanium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Uranium (Mass)	EPA 6020B
Mineral	
Acidity	SM 2310B-2011
Alkalinity	SM 2320B-2011
Calcium Hardness	SM 2340B-2011
Chloride	EPA 300.0, Rev. 2.1 (1993)
	SM 4500-Cl- E-2011
Hardness, Total	SM 2340B-2011
Sulfate (as SO4)	EPA 300.0, Rev. 2.1 (1993)
Miscellaneous	
Boron, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
Bromide	EPA 300.0, Rev. 2.1 (1993)
Color	SM 2120B-2011
Cyanide, Available	SM 4500-CN G-2016
Cyanide, Total	EPA 335.4, Rev. 1.0 (1993)
	EPA 9012B

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Miscellaneous

Formaldehyde	EPA 8315A
non-Polar Extractable Material (TPH)	EPA 1664A
Oil and Grease Total Recoverable	EPA 1664A
	EPA 1664B
	EPA 9070A (Solvent:Hexane)
Organic Carbon, Total	SM 5310B-2014
Phenols	EPA 420.4, Rev. 1.0 (1993)
Specific Conductance	SM 2510B-2011
Sulfide (as S)	SM 4500-S2- D-2011
Surfactant (MBAS)	SM 5540C-2011
Turbidity	SM 2130 B-2011

Nitroaromatics and Isophorone

2,4-Dinitrotoluene	EPA 625.1
	EPA 8270E
2,6-Dinitrotoluene	EPA 625.1
	EPA 8270E
Isophorone	EPA 625.1
	EPA 8270E
Nitrobenzene	EPA 625.1
	EPA 8270E

Nitrosoamines

N-Nitrosodimethylamine	EPA 625.1
	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 625.1
	EPA 8270E
N-Nitrosodiphenylamine	EPA 625.1

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Nitrosoamines

N-Nitrosodiphenylamine	EPA 8270E

Nutrient

Ammonia (as N)	EPA 350.1, Rev. 2.0 (1993)
Kjeldahl Nitrogen, Total	EPA 351.1 (Rev. 1978)
Nitrate (as N)	EPA 353.2, Rev. 2.0 (1993)
	EPA 300.0, Rev. 2.1 (1993)
Nitrate plus Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
	EPA 300.0, Rev. 2.1 (1993)
Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
	EPA 300.0, Rev. 2.1 (1993)
Organic Nitrogen (as N)	TKN minus Ammonia (as N)
Orthophosphate (as P)	SM 4500-P E-2011
	SM 4500-P F-2011 or G-2011
Phosphorus, Total	EPA 200.7, Rev. 4.4 (1994)
	SM 4500-P E-2011

Organophosphate Pesticides

Atrazine	EPA 8141B
	EPA 8270E
Azinphos methyl	EPA 8141B
Diazinon	EPA 8141B
Disulfoton	EPA 8141B
Malathion	EPA 8141B
Parathion ethyl	EPA 8270E
Simazine	EPA 8141B

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015D

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Petroleum Hydrocarbons	
Gasoline Range Organics	EPA 8015D
Phthalate Esters	
Benzyl butyl phthalate	EPA 625.1
	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 625.1
	EPA 8270E
Diethyl phthalate	EPA 625.1
	EPA 8270E
Dimethyl phthalate	EPA 625.1
	EPA 8270E
Di-n-butyl phthalate	EPA 625.1
	EPA 8270E
Di-n-octyl phthalate	EPA 625.1
	EPA 8270E
Polychlorinated Biphenyls	
Aroclor 1016 (PCB-1016)	EPA 8082A
	EPA 608.3
Aroclor 1221 (PCB-1221)	EPA 8082A
	EPA 608.3
Aroclor 1232 (PCB-1232)	EPA 8082A
	EPA 608.3
Aroclor 1242 (PCB-1242)	EPA 8082A
	EPA 608.3
Aroclor 1248 (PCB-1248)	EPA 8082A
	EPA 608.3
Aroclor 1254 (PCB-1254)	EPA 8082A

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Polychlorinated Biphenyls

Aroclor 1254 (PCB-1254)	EPA 608.3
Aroclor 1260 (PCB-1260)	EPA 8082A
	EPA 608.3
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
PCB 101	EPA 8082A
PCB 105	EPA 8082A
PCB 118	EPA 8082A
PCB 128	EPA 8082A
PCB 138	EPA 8082A
PCB 153	EPA 8082A
PCB 170	EPA 8082A
PCB 18	EPA 8082A
PCB 180	EPA 8082A
PCB 183	EPA 8082A
PCB 184	EPA 8082A
PCB 187	EPA 8082A
PCB 195	EPA 8082A
PCB 206	EPA 8082A
PCB 209	EPA 8082A
PCB 28	EPA 8082A
PCB 44	EPA 8082A
PCB 49	EPA 8082A
PCB 52	EPA 8082A
PCB 66	EPA 8082A
PCB 8	EPA 8082A
PCB 87	EPA 8082A

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Polychlorinated Biphenyls

PCB Congeners, Total	EPA 8082A

Polynuclear Aromatics

Acenaphthene	EPA 625.1
	EPA 8270E
Acenaphthylene	EPA 625.1
	EPA 8270E
Anthracene	EPA 625.1
	EPA 8270E
Benzo(a)anthracene	EPA 625.1
	EPA 8270E
Benzo(a)pyrene	EPA 625.1
	EPA 8270E
Benzo(b)fluoranthene	EPA 625.1
	EPA 8270E
Benzo(g,h,i)perylene	EPA 625.1
	EPA 8270E
Benzo(k)fluoranthene	EPA 625.1
	EPA 8270E
Chrysene	EPA 625.1
	EPA 8270E
Dibenzo(a,h)anthracene	EPA 625.1
	EPA 8270E
Fluoranthene	EPA 625.1
	EPA 8270E
Fluorene	EPA 625.1
	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 625.1

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Polynuclear Aromatics

Indeno(1,2,3-cd)pyrene	EPA 8270E
Naphthalene	EPA 625.1
	EPA 8270E
Phenanthrene	EPA 625.1
	EPA 8270E
Pyrene	EPA 625.1
	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270E
2,4,5-Trichlorophenol	EPA 625.1
	EPA 8270E
2,4,6-Trichlorophenol	EPA 625.1
	EPA 8270E
2,4-Dichlorophenol	EPA 625.1
	EPA 8270E
2,4-Dimethylphenol	EPA 625.1
	EPA 8270E
2,4-Dinitrophenol	EPA 625.1
	EPA 8270E
2,6-Dichlorophenol	EPA 8270E
2-Chlorophenol	EPA 625.1
	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 625.1
	EPA 8270E
2-Methylphenol	EPA 625.1
	EPA 8270E
2-Nitrophenol	EPA 625.1

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Priority Pollutant Phenols

2-Nitrophenol	EPA 8270E
3-Methylphenol	EPA 625.1
	EPA 8270E
4-Chloro-3-methylphenol	EPA 625.1
	EPA 8270E
4-Methylphenol	EPA 625.1
	EPA 8270E
4-Nitrophenol	EPA 625.1
	EPA 8270E
Cresols, Total	EPA 625.1
	EPA 8270E
Pentachlorophenol	EPA 625.1
	EPA 8270E
Phenol	EPA 625.1
	EPA 8270E

Residue

Settleable Solids	SM 2540 F-2015
Solids, Total	SM 2540 B-2015
Solids, Total Dissolved	SM 2540 C-2015
Solids, Total Suspended	SM 2540 D-2015
Solids, Volatile	SM 2540 E-2015

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Semi-Volatile Organics

2-Methylnaphthalene	EPA 625.1
	EPA 8270E
Acetophenone	EPA 8270E
alpha-Terpineol	EPA 625.1
Benzaldehyde	EPA 8270E
Benzoic Acid	EPA 8270E
Benzyl alcohol	EPA 8270E
Caprolactam	EPA 8270D
	EPA 8270E
Dibenzofuran	EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
1,2,4-Trimethylbenzene	EPA 8260D
1,2-Dichlorobenzene	EPA 8260D
	EPA 624.1
1,3,5-Trimethylbenzene	EPA 8260D
1,3-Dichlorobenzene	EPA 8260D
	EPA 624.1
1,4-Dichlorobenzene	EPA 8260D
	EPA 624.1
2-Chlorotoluene	EPA 8260D
4-Chlorotoluene	EPA 8260D
Benzene	EPA 8260D
	EPA 624.1
Bromobenzene	EPA 8260D
Chlorobenzene	EPA 8260D
	EPA 624.1

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Volatile Aromatics

Ethyl benzene	EPA 8260D
	EPA 624.1
Isopropylbenzene	EPA 8260D
m/p-Xylenes	EPA 8260D
	EPA 624.1
Naphthalene, Volatile	EPA 8260D
	EPA 624.1
n-Butylbenzene	EPA 8260D
n-Propylbenzene	EPA 8260D
o-Xylene	EPA 8260D
	EPA 624.1
p-Isopropyltoluene (P-Cymene)	EPA 8260D
sec-Butylbenzene	EPA 8260D
Styrene	EPA 8260D
	EPA 624.1
tert-Butylbenzene	EPA 8260D
Toluene	EPA 8260D
	EPA 624.1
Total Xylenes	EPA 8260D
	EPA 624.1

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
1,1,1-Trichloroethane	EPA 8260D
	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260D
	EPA 624.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Volatile Halocarbons

1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 624.1
1,1,2-Trichloroethane	EPA 8260D
	EPA 624.1
1,1-Dichloroethane	EPA 8260D
	EPA 624.1
1,1-Dichloroethene	EPA 8260D
	EPA 624.1
1,1-Dichloropropene	EPA 8260D
1,2,3-Trichloropropane	EPA 8260D
1,2-Dibromo-3-chloropropane	EPA 8260D
1,2-Dibromoethane	EPA 8260D
1,2-Dichloroethane	EPA 8260D
	EPA 624.1
1,2-Dichloropropane	EPA 8260D
	EPA 624.1
1,3-Dichloropropane	EPA 8260D
2,2-Dichloropropane	EPA 8260D
2-Chloroethylvinyl ether	EPA 8260D
	EPA 624.1
Bromochloromethane	EPA 8260D
Bromodichloromethane	EPA 8260D
	EPA 624.1
Bromoform	EPA 8260D
	EPA 624.1
Bromomethane	EPA 8260D
	EPA 624.1
Carbon tetrachloride	EPA 8260D

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Volatile Halocarbons

Carbon tetrachloride	EPA 624.1
Chloroethane	EPA 8260D
	EPA 624.1
Chloroform	EPA 8260D
	EPA 624.1
Chloromethane	EPA 8260D
	EPA 624.1
cis-1,2-Dichloroethene	EPA 8260D
	EPA 624.1
cis-1,3-Dichloropropene	EPA 8260D
	EPA 624.1
Dibromochloromethane	EPA 8260D
	EPA 624.1
Dibromomethane	EPA 8260D
Dichlorodifluoromethane	EPA 8260D
	EPA 624.1
Hexachlorobutadiene, Volatile	EPA 8260D
Methyl iodide	EPA 8260D
Methylene chloride	EPA 8260D
	EPA 624.1
Tetrachloroethene	EPA 8260D
	EPA 624.1
trans-1,2-Dichloroethene	EPA 8260D
	EPA 624.1
trans-1,3-Dichloropropene	EPA 8260D
	EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260D

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Volatile Halocarbons

Trichloroethene	EPA 8260D
	EPA 624.1
Trichlorofluoromethane	EPA 8260D
	EPA 624.1
Vinyl chloride	EPA 8260D
	EPA 624.1

Volatiles Organics

1,4-Dioxane	EPA 8260D
	EPA 8270E
	EPA 8270E SIM
2-Butanone (Methylethyl ketone)	EPA 8260D
2-Hexanone	EPA 8260D
2-Nitropropane	EPA 8260D
4-Methyl-2-Pentanone	EPA 8260D
Acetone	EPA 8260D
	EPA 624.1
Carbon Disulfide	EPA 8260D
Cyclohexane	EPA 8260D
Di-ethyl ether	EPA 8260D
Ethylene Glycol	EPA 8015D
Isobutyl alcohol	EPA 8015D
Methyl acetate	EPA 8260D
Methyl cyclohexane	EPA 8260D
Propylene Glycol	EPA 8015D
Vinyl acetate	EPA 8260D

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Sample Preparation Methods

SM 4500-P B(5)-2011
EPA 5030C
SM 4500-CN B-2016 and C-2016
EPA 3010A
EPA 3005A
EPA 3510C
EPA 3520C
EPA 3020A
EPA 9010C
SM 4500-S2- B,C-2011

Serial No.: 72070

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Acrylates

Acrolein (Propenal)	EPA 8260D
Acrylonitrile	EPA 8260D

Amines

1,2-Diphenylhydrazine	EPA 8270E
2-Nitroaniline	EPA 8270E
3-Nitroaniline	EPA 8270E
4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270E
Aniline	EPA 8270E
Carbazole	EPA 8270E

Benzidines

3,3'-Dichlorobenzidine	EPA 8270E
Benzidine	EPA 8270E

Characteristic Testing

Corrosivity (pH)	EPA 9045D
Free Liquids	EPA 9095B
Ignitability	EPA 1010B
	EPA 1010A
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B

Serial No.: 72071

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Chlorinated Hydrocarbon Pesticides

alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270E
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Mirex	EPA 8081B
Pentachloronitrobenzene	EPA 8270E
Simazine	EPA 8141B
Toxaphene	EPA 8081B
trans-Chlordane	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
1,2,4,5-Tetrachlorobenzene	EPA 8270E
1,2,4-Trichlorobenzene	EPA 8270E
2-Chloronaphthalene	EPA 8270E
Hexachlorobenzene	EPA 8270E

Serial No.: 72071

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Chlorinated Hydrocarbons

Hexachlorobutadiene	EPA 8270E
Hexachlorocyclopentadiene	EPA 8270E
Hexachloroethane	EPA 8270E

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
2,4-DB	EPA 8151A
Dalapon	EPA 8151A
Dicamba	EPA 8151A
Dichloroprop	EPA 8151A
Dinoseb	EPA 8151A
MCPA	EPA 8151A
MCPP	EPA 8151A
Pentachlorophenol	EPA 8151A

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270E
4-Bromophenylphenyl ether	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270E

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270E SIM
Acenaphthylene Low Level	EPA 8270E SIM
Anthracene Low Level	EPA 8270E SIM
Benzo(a)anthracene Low Level	EPA 8270E SIM

Serial No.: 72071

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Low Level Polynuclear Aromatic Hydrocarbons

Benzo(a)pyrene Low Level	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270E SIM
Benzo(g,h,i)perylene Low Level	EPA 8270E SIM
Benzo(k)fluoranthene Low Level	EPA 8270E SIM
Chrysene Low Level	EPA 8270E SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270E SIM
Fluorene Low Level	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E SIM
Naphthalene Low Level	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270E SIM
Pyrene Low Level	EPA 8270E SIM

Metals I

Barium, Total	EPA 6010D
Cadmium, Total	EPA 6010D
Calcium, Total	EPA 6010D
Chromium, Total	EPA 6010D
Copper, Total	EPA 6010D
Iron, Total	EPA 6010D
Lead, Total	EPA 6010D
Magnesium, Total	EPA 6010D
Manganese, Total	EPA 6010D
Nickel, Total	EPA 6010D
Potassium, Total	EPA 6010D
Silver, Total	EPA 6010D
Sodium, Total	EPA 6010D
Strontium, Total	EPA 6010D

Serial No.: 72071

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Metals II

Aluminum, Total	EPA 6010D
Antimony, Total	EPA 6010D
Arsenic, Total	EPA 6010D
Beryllium, Total	EPA 6010D
Chromium VI	EPA 7196A
Mercury, Total	EPA 7471B
	EPA 7473
Selenium, Total	EPA 6010D
Vanadium, Total	EPA 6010D
Zinc, Total	EPA 6010D

Metals III

Cobalt, Total	EPA 6010D
Molybdenum, Total	EPA 6010D
Thallium, Total	EPA 6010D
Tin, Total	EPA 6010D
Titanium, Total	EPA 6010D

Minerals

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO4)	EPA 9056A

Miscellaneous

Boron, Total	EPA 6010D
Cyanide, Total	EPA 9012B
Formaldehyde	EPA 8315A
Organic Carbon, Total	Lloyd Kahn Method

Serial No.: 72071

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Miscellaneous

Organic Carbon, Total	EPA 9060A
Phenols	EPA 9066
Specific Conductance	EPA 9050A
Sulfide (as S)	EPA 9034

Nitroaromatics and Isophorone

2,4-Dinitrotoluene	EPA 8270E
2,6-Dinitrotoluene	EPA 8270E
Isophorone	EPA 8270E
Nitrobenzene	EPA 8270E
Pyridine	EPA 8270E

Nitrosoamines

N-Nitrosodimethylamine	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 8270E
N-Nitrosodiphenylamine	EPA 8270E

Nutrients

Nitrate (as N)	EPA 9056A
Nitrite (as N)	EPA 9056A

Organophosphate Pesticides

Azinphos methyl	EPA 8141B
Diazinon	EPA 8141B
Disulfoton	EPA 8141B
Malathion	EPA 8141B
Parathion ethyl	EPA 8270E

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015D

Serial No.: 72071

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Petroleum Hydrocarbons

Gasoline Range Organics	EPA 8015D
Oil and Grease Total Recoverable	EPA 9071B (Solvent:Hexane)

Phthalate Esters

Benzyl butyl phthalate	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 8270E
Diethyl phthalate	EPA 8270E
Dimethyl phthalate	EPA 8270E
Di-n-butyl phthalate	EPA 8270E
Di-n-octyl phthalate	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1232 (PCB-1232) in Oil	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1262 (PCB-1262) in Oil	EPA 8082A

Serial No.: 72071

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Polychlorinated Biphenyls

Aroclor 1268 (PCB-1268)	EPA 8082A
Aroclor 1268 (PCB-1268) in Oil	EPA 8082A
PCB 101	EPA 8082A
PCB 105	EPA 8082A
PCB 118	EPA 8082A
PCB 128	EPA 8082A
PCB 138	EPA 8082A
PCB 153	EPA 8082A
PCB 170	EPA 8082A
PCB 18	EPA 8082A
PCB 180	EPA 8082A
PCB 183	EPA 8082A
PCB 184	EPA 8082A
PCB 187	EPA 8082A
PCB 195	EPA 8082A
PCB 206	EPA 8082A
PCB 209	EPA 8082A
PCB 28	EPA 8082A
PCB 44	EPA 8082A
PCB 49	EPA 8082A
PCB 52	EPA 8082A
PCB 66	EPA 8082A
PCB 8	EPA 8082A
PCB 87	EPA 8082A
PCB Congeners, Total	EPA 8082A

Polynuclear Aromatic Hydrocarbons

Acenaphthene	EPA 8270E

Serial No.: 72071

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Polynuclear Aromatic Hydrocarbons

Acenaphthylene	EPA 8270E
Anthracene	EPA 8270E
Benzo(a)anthracene	EPA 8270E
Benzo(a)pyrene	EPA 8270E
Benzo(b)fluoranthene	EPA 8270E
Benzo(g,h,i)perylene	EPA 8270E
Benzo(k)fluoranthene	EPA 8270E
Chrysene	EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270E
Fluoranthene	EPA 8270E
Fluorene	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 8270E
Naphthalene	EPA 8270E
Phenanthrene	EPA 8270E
Pyrene	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270E
2,4,5-Trichlorophenol	EPA 8270E
2,4,6-Trichlorophenol	EPA 8270E
2,4-Dichlorophenol	EPA 8270E
2,4-Dimethylphenol	EPA 8270E
2,4-Dinitrophenol	EPA 8270E
2,6-Dichlorophenol	EPA 8270E
2-Chlorophenol	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 8270E
2-Methylphenol	EPA 8270E
2-Nitrophenol	EPA 8270E

Serial No.: 72071

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Priority Pollutant Phenols

3-Methylphenol	EPA 8270E
4-Chloro-3-methylphenol	EPA 8270E
4-Methylphenol	EPA 8270E
4-Nitrophenol	EPA 8270E
Pentachlorophenol	EPA 8270E
Phenol	EPA 8270E

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270E
Acetophenone	EPA 8270E
Benzaldehyde	EPA 8270E
Benzoic Acid	EPA 8270E
Benzyl alcohol	EPA 8270E
Caprolactam	EPA 8270E
Dibenzofuran	EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
1,2,4-Trimethylbenzene	EPA 8260D
1,2-Dichlorobenzene	EPA 8260D
1,3,5-Trimethylbenzene	EPA 8260D
1,3-Dichlorobenzene	EPA 8260D
1,4-Dichlorobenzene	EPA 8260D
2-Chlorotoluene	EPA 8260D

Serial No.: 72071

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Aromatics

4-Chlorotoluene	EPA 8260D
Benzene	EPA 8260D
Bromobenzene	EPA 8260D
Chlorobenzene	EPA 8260D
Ethyl benzene	EPA 8260D
Isopropylbenzene	EPA 8260D
m/p-Xylenes	EPA 8260D
Naphthalene, Volatile	EPA 8260D
n-Butylbenzene	EPA 8260D
n-Propylbenzene	EPA 8260D
o-Xylene	EPA 8260D
p-Isopropyltoluene (P-Cymene)	EPA 8260D
sec-Butylbenzene	EPA 8260D
Styrene	EPA 8260D
tert-Butylbenzene	EPA 8260D
Toluene	EPA 8260D
Total Xylenes	EPA 8260D

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
1,1,1-Trichloroethane	EPA 8260D
1,1,2,2-Tetrachloroethane	EPA 8260D
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
1,1,2-Trichloroethane	EPA 8260D
1,1-Dichloroethane	EPA 8260D
1,1-Dichloroethene	EPA 8260D
1,1-Dichloropropene	EPA 8260D
1,2,3-Trichloropropane	EPA 8260D

Serial No.: 72071

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Halocarbons

1,2-Dibromo-3-chloropropane	EPA 8260D
1,2-Dibromoethane	EPA 8260D
1,2-Dichloroethane	EPA 8260D
1,2-Dichloropropane	EPA 8260D
1,3-Dichloropropane	EPA 8260D
2,2-Dichloropropane	EPA 8260D
Bromochloromethane	EPA 8260D
Bromodichloromethane	EPA 8260D
Bromoform	EPA 8260D
Bromomethane	EPA 8260D
Carbon tetrachloride	EPA 8260D
Chloroethane	EPA 8260D
Chloroform	EPA 8260D
Chloromethane	EPA 8260D
cis-1,2-Dichloroethene	EPA 8260D
cis-1,3-Dichloropropene	EPA 8260D
Dibromochloromethane	EPA 8260D
Dibromomethane	EPA 8260D
Dichlorodifluoromethane	EPA 8260D
Hexachlorobutadiene, Volatile	EPA 8260D
Methylene chloride	EPA 8260D
Tetrachloroethene	EPA 8260D
trans-1,2-Dichloroethene	EPA 8260D
trans-1,3-Dichloropropene	EPA 8260D
trans-1,4-Dichloro-2-butene	EPA 8260D
Trichloroethene	EPA 8260D
Trichlorofluoromethane	EPA 8260D

Serial No.: 72071

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Halocarbons	
Vinyl chloride	EPA 8260D
Volatile Organics	
1,4-Dioxane	EPA 8260D
	EPA 8270E SIM
2-Butanone (Methylethyl ketone)	EPA 8260D
2-Hexanone	EPA 8260D
2-Nitropropane	EPA 8260D
4-Methyl-2-Pentanone	EPA 8260D
Acetone	EPA 8260D
Carbon Disulfide	EPA 8260D
Cyclohexane	EPA 8260D
Di-ethyl ether	EPA 8260D
Ethylene Glycol	EPA 8260D
	EPA 8015D
Isobutyl alcohol	EPA 8015D
Methyl acetate	EPA 8260D
Methyl cyclohexane	EPA 8260D
Methyl tert-butyl ether	EPA 8260D
tert-butyl alcohol	EPA 8260D
Tetrahydrofuran	EPA 8260D
Vinyl acetate	EPA 8260D
Sample Preparation Methods	
	EPA 5035A-L
	EPA 5035A-H
	EPA 3580A
	EPA 9030B

Serial No.: 72071

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Sample Preparation Methods

EPA 3050B
EPA 3540C
EPA 3546
EPA 3545A
EPA 3051A
EPA 5021A
EPA 3060A
EPA 9010C

Serial No.: 72071

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Lead in Dust Wipes	EPA 6010D
Lead in Paint	EPA 6010D

Sample Preparation Methods

	EPA 3050B
	EPA 3051A

Serial No.: 72072

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:

Acrylates	
Acrylonitrile	EPA TO-15
Methyl methacrylate	EPA TO-15
Chlorinated Hydrocarbons	
1,2,4-Trichlorobenzene	EPA TO-15
Hexachlorobutadiene	EPA TO-15
Hexachloroethane	EPA TO-15
Metals I	
Lead, Total	EPA 29 (6010)
Polychlorinated Biphenyls	
PCBs and Aroclors	EPA TO-10A
Polynuclear Aromatics	
Naphthalene	EPA TO-15
Purgeable Aromatics	
1,2,4-Trimethylbenzene	EPA TO-15
1,2-Dichlorobenzene	EPA TO-15
1,3,5-Trimethylbenzene	EPA TO-15
1,3-Dichlorobenzene	EPA TO-15
1,4-Dichlorobenzene	EPA TO-15
2-Chlorotoluene	EPA TO-15
Benzene	EPA TO-15
Chlorobenzene	EPA TO-15
Ethyl benzene	EPA TO-15
Isopropylbenzene	EPA TO-15
m/p-Xylenes	EPA TO-15
o-Xylene	EPA TO-15

Serial No.: 72073

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:

Purgeable Aromatics

Styrene	EPA TO-15
Toluene	EPA TO-15
Total Xylenes	EPA TO-15

Purgeable Halocarbons

1,1,1-Trichloroethane	EPA TO-15
1,1,2,2-Tetrachloroethane	EPA TO-15
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA TO-15
1,1,2-Trichloroethane	EPA TO-15
1,1-Dichloroethane	EPA TO-15
1,1-Dichloroethene	EPA TO-15
1,2-Dibromo-3-chloropropane	EPA TO-15
1,2-Dibromoethane	EPA TO-15
1,2-Dichloroethane	EPA TO-15
1,2-Dichloropropane	EPA TO-15
3-Chloropropene (Allyl chloride)	EPA TO-15
Bromodichloromethane	EPA TO-15
Bromoform	EPA TO-15
Bromomethane	EPA TO-15
Carbon tetrachloride	EPA TO-15
Chloroethane	EPA TO-15
Chloroform	EPA TO-15
Chloromethane	EPA TO-15
cis-1,2-Dichloroethene	EPA TO-15
cis-1,3-Dichloropropene	EPA TO-15
Dibromochloromethane	EPA TO-15
Dichlorodifluoromethane	EPA TO-15
Methylene chloride	EPA TO-15

Serial No.: 72073

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:

Purgeable Halocarbons

Tetrachloroethene	EPA TO-15
trans-1,2-Dichloroethene	EPA TO-15
trans-1,3-Dichloropropene	EPA TO-15
Trichloroethene	EPA TO-15
Trichlorofluoromethane	EPA TO-15
Vinyl bromide	EPA TO-15
Vinyl chloride	EPA TO-15

Volatile Chlorinated Organics

Benzyl chloride	EPA TO-15

Volatile Organics

1,2-Dichlorotetrafluoroethane	EPA TO-15
1,3-Butadiene	EPA TO-15
1,4-Dioxane	EPA TO-15
2,2,4-Trimethylpentane	EPA TO-15
2-Butanone (Methylethyl ketone)	EPA TO-15
4-Methyl-2-Pentanone	EPA TO-15
Acetone	EPA TO-15
Carbon Disulfide	EPA TO-15
Cyclohexane	EPA TO-15
Hexane	EPA TO-15
Isopropanol	EPA TO-15
Methyl tert-butyl ether	EPA TO-15
n-Heptane	EPA TO-15
tert-butyl alcohol	EPA TO-15

Serial No.: 72073

State of New Jersey

Department of Environmental Protection

Certifies That

PHOENIX ENVIRONMENTAL LABORATORY

Laboratory Certification ID # CT003

is hereby approved as a

Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

and

having been found compliant with the 2016 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2026

NELAP RECOGNIZED TNI ACCREDITATION BODY

Michele M. Potter
Manager

THE GREAT SEAL OF THE STATE OF NEW JERSEY

NJDEP is a NELAP Recognized Accreditation Body

This certificate is to be conspicuously displayed at the laboratory with the annual certified parameter list in a location on the premises visible to the public. Consumers are urged to verify the laboratory's current accreditation status with the State of NJ, NELAP.

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: AE04 --Organics Analysis

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.12750	Aroclor 1016	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.12800	Aroclor 1221	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.12850	Aroclor 1232	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.12900	Aroclor 1242	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.12950	Aroclor 1248	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.13000	Aroclor 1254	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.13050	Aroclor 1260	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.13100	Aroclor 1262	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.13150	Aroclor 1268	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.17950	Acetone	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18250	Acrylonitrile	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18300	Allyl chloride	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18400	Benzene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18450	Benzyl chloride	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18600	Bromodichloromethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18650	Bromoform	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18700	Bromomethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18750	Butadiene (1,3-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18900	Carbon disulfide	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19000	Carbon tetrachloride	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19150	Chlorobenzene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19200	Chloroethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19250	Chloroform	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19300	Chloromethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19400	Chlorotoluene (2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19500	Cyclohexane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19600	Dibromo-3-chloropropane (1,2-)	GC/MS, Canisters	EPA TO-15	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: AE04 --Organics Analysis

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.19650	Dibromochloromethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19700	Dibromoethane (1,2-) (EDB)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19750	Dichlorobenzene (1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19800	Dichlorobenzene (1,3-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19850	Dichlorobenzene (1,4-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19900	Dichlorodifluoromethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19950	Dichloroethane (1,1-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20000	Dichloroethane (1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20050	Dichloroethene (1,1-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20100	Dichloroethene (cis-1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20150	Dichloroethene (trans-1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20250	Dichloropropane (1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20300	Dichloropropene (cis-1,3-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20350	Dichloropropene (trans-1,3-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20400	Dichlorotetrafluoroethane (1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20750	Dioxane (1,4-)	GC/MS, Canisters	EPA TO-15	NY
Applied	Yes	AE04.20900	Ethanol	GC/MS, Canisters	EPA TO-15	NJ
Certified	Yes	AE04.21100	Ethylbenzene	GC/MS, Canisters	EPA TO-15	NY
Applied	Yes	AE04.21250	Ethyltoluene (4-)	GC/MS, Canisters	EPA TO-15	NJ
Certified	Yes	AE04.21400	Heptane (n-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21450	Hexachlorobutadiene (1,3-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21500	Hexachloroethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21550	Hexane (n-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21700	Isopropanol	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21750	Isopropylbenzene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21850	Methyl ethyl ketone (MEK)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21950	Methyl isobutyl ketone (MIBK)	GC/MS, Canisters	EPA TO-15	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: AE04 --Organics Analysis

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.22050	Methyl methacrylate	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.22100	Methyl tert-butyl ether	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.22150	Methylene chloride (Dichloromethane)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.22300	Naphthalene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23150	Styrene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23250	Tert-butyl alcohol	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23350	Tetrachloroethane (1,1,2,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23400	Tetrachloroethene	GC/MS, Canisters	EPA TO-15	NY
Applied	Yes	AE04.23450	Tetrahydrofuran	GC/MS, Canisters	EPA TO-15	NJ
Certified	Yes	AE04.23500	Toluene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23550	Trichloro (1,1,2-) trifluoroethane (1,2,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23600	Trichlorobenzene (1,2,4-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23650	Trichloroethane (1,1,1-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23700	Trichloroethane (1,1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23750	Trichloroethene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23800	Trichlorofluoromethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24050	Trimethylbenzene (1,2,4-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24100	Trimethylbenzene (1,3,5-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24150	Trimethylpentane (2,2,4-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24250	Vinyl bromide	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24300	Vinyl chloride	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24350	Xylene (m-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24400	Xylene (o-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24450	Xylene (p-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24500	Xylenes (total)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.37850	Acetone	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.37900	Allyl chloride	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: AE04 --Organics Analysis

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.37950	Benzene	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38000	Bromodichloromethane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38050	Bromoform	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38100	Bromomethane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38150	Butadiene (1,3-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38200	Carbon disulfide	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38250	Carbon tetrachloride	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38300	Chlorobenzene	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38350	Chloroethane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38400	Chloroform	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38450	Chloromethane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38500	Chlorotoluene (2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38550	Cyclohexane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38600	Dibromochloromethane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38650	Dibromoethane (1,2-) (EDB)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38700	Dichlorobenzene (1,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38750	Dichlorobenzene (1,3-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38800	Dichlorobenzene (1,4-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38850	Dichlorodifluoromethane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38900	Dichloroethane (1,1-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38950	Dichloroethane (1,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39000	Dichloroethene (1,1-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39050	Dichloroethene (cis-1,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39100	Dichloroethene (trans-1,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39150	Dichloropropane (1,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39200	Dichloropropene (cis-1,3-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39250	Dichloropropene (trans-1,3-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: AE04 --Organics Analysis

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.39300	Dichlorotetrafluoroethane (1,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39350	Dioxane (1,4-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39400	Ethanol	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39450	Ethylbenzene	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39500	Ethyltoluene (4-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39550	Heptane (n-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39600	Hexachlorobutadiene (1,3-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39650	Hexane (n-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39700	Isopropanol	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39750	Methyl ethyl ketone (MEK)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39800	Methyl isobutyl ketone (MIBK)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39850	Methyl methacrylate	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39900	Methyl tert-butyl ether	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39950	Methylene chloride (Dichloromethane)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40050	Styrene	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40100	Tert-butyl alcohol	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40150	Tetrachloroethane (1,1,2,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40200	Tetrachloroethene	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40250	Tetrahydrofuran	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40300	Toluene	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40350	Trichloro (1,1,2-) trifluoroethane (1,2,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40400	Trichlorobenzene (1,2,4-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40450	Trichloroethane (1,1,1-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40500	Trichloroethane (1,1,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40550	Trichloroethene	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40600	Trichlorofluoromethane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40650	Trimethylbenzene (1,2,4-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: AE04 --Organics Analysis

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.40700	Trimethylbenzene (1,3,5-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40750	Trimethylpentane (2,2,4-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40800	Vinyl bromide	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40850	Vinyl chloride	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40900	Xylene (m- + p-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40950	Xylene (o-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ

Category: DW01 --Microbiology

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW01.00350	Heterotrophic bacteria	Pour Plate	SM 9215 B	NY
Certified	Yes	DW01.00500	Total coliform / E. coli	ONPG-MUG (Colilert/Colilert-18) (P-A)	SM 9223 B	NY
Certified	Yes	DW01.00550	Total coliform / E. coli	ONPG-MUG (Colilert/Colilert-18), Enumeration	SM 9223 B, Multi-well Procedure	NY

Category: DW03 --Inorganic Parameters

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW03.00050	Alkalinity	Electrometric Titration	SM 2320 B	NY
Certified	Yes	DW03.01800	Chloride	Ion Chromatography	EPA 300.0	NY
Certified	Yes	DW03.02550	Color	Platinum-Cobalt	SM 2120 B	NY
Certified	Yes	DW03.02700	Conductivity	Conductance	SM 2510 B	NY
Certified	Yes	DW03.03150	Cyanide	Spectrophotometric, Distill, Semi Automated	EPA 335.4	NY
Certified	Yes	DW03.03300	Dissolved organic carbon (DOC)	High Temp. Combustion, Filtration	SM 5310 B	NY

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: DW03 --Inorganic Parameters

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW03.03750	Fluoride	Ion Chromatography	EPA 300.0	NY
Certified	Yes	DW03.03900	Fluoride	Manual Potentiometric Ion Select Electrode	SM 4500-F C	NY
Certified	Yes	DW03.03950	Foaming agents	Methylene Blue	SM 5540 C	NY
Certified	Yes	DW03.04000	Nitrate	Automated Cadmium Reduction	EPA 353.2	NY
Certified	Yes	DW03.04600	Nitrate	Ion Chromatography	EPA 300.0	NY
Certified	Yes	DW03.05000	Nitrite	Auto, Bypass Cadmium Reduction	EPA 353.2	NY
Certified	Yes	DW03.05450	Nitrite	Ion Chromatography	EPA 300.0	NY
Certified	Yes	DW03.05850	Odor	Consistent Series	SM 2150 B	NY
Certified	Yes	DW03.05950	Orthophosphate	Colorimetric	SM 4500-P E	NY
Certified	Yes	DW03.06150	Orthophosphate	Colorimetric, Automated, Ascorbic Acid	SM 4500-P F	NY
Dropped	No	DW03.06850	Sulfate	Gravimetric	SM 4500-SO4 D	NY
Certified	Yes	DW03.06900	Sulfate	Ion Chromatography	EPA 300.0	NY
Certified	Yes	DW03.07150	Total dissolved solids (TDS)	Gravimetric At 180	SM 2540 C	NY
Certified	Yes	DW03.07400	Total organic carbon (TOC)	High Temp. Combustion	SM 5310 B	NY
Certified	Yes	DW03.08100	Turbidity	Nephelometric	SM 2130 B	NY
Certified	Yes	DW03.08300	UV-absorbing compounds (UV254)	Spectrophotometric	SM 5910 B	NY

Category: DW06 --Metals

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW06.00750	Antimony	AA, Platform Furnace	EPA 200.9	NY
Certified	Yes	DW06.00800	Arsenic	AA, Platform Furnace	EPA 200.9	NY
Certified	Yes	DW06.01100	Lead	AA, Platform Furnace	EPA 200.9	NY
Certified	Yes	DW06.01250	Selenium	AA, Platform Furnace	EPA 200.9	NY
Certified	Yes	DW06.01350	Thallium	AA, Platform Furnace	EPA 200.9	NY
Certified	Yes	DW06.01500	Mercury	Manual Cold Vapor	EPA 245.1	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: DW06 --Metals

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW06.02550	Antimony	AA, Graphite Furnace	SM 3113 B	NY
Certified	Yes	DW06.02600	Arsenic	AA, Graphite Furnace	SM 3113 B	NY
Certified	Yes	DW06.03050	Selenium	AA, Graphite Furnace	SM 3113 B	NY
Certified	Yes	DW06.03150	Lead	AA, Graphite Furnace	SM 3113 B	NY

Category: DW07 --Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW07.00400	Copper	ICP - Axially Viewed	EPA 200.5	NY
Certified	Yes	DW07.00500	Lead	ICP - Axially Viewed	EPA 200.5	NY
Certified	Yes	DW07.00950	Aluminum	ICP	EPA 200.7	NY
Certified	Yes	DW07.01000	Barium	ICP	EPA 200.7	NY
Certified	Yes	DW07.01050	Beryllium	ICP	EPA 200.7	NY
Certified	Yes	DW07.01100	Boron	ICP	EPA 200.7	NY
Certified	Yes	DW07.01150	Cadmium	ICP	EPA 200.7	NY
Certified	Yes	DW07.01200	Calcium	ICP	EPA 200.7	NY
Certified	Yes	DW07.01250	Chromium	ICP	EPA 200.7	NY
Certified	Yes	DW07.01350	Copper	ICP	EPA 200.7	NY
Certified	Yes	DW07.01400	Iron	ICP	EPA 200.7	NY
Certified	Yes	DW07.01500	Magnesium	ICP	EPA 200.7	NY
Certified	Yes	DW07.01550	Manganese	ICP	EPA 200.7	NY
Certified	Yes	DW07.01600	Molybdenum	ICP	EPA 200.7	NY
Certified	Yes	DW07.01650	Nickel	ICP	EPA 200.7	NY
Certified	Yes	DW07.01700	Potassium	ICP	EPA 200.7	NY
Certified	Yes	DW07.01800	Silver	ICP	EPA 200.7	NY
Certified	Yes	DW07.01850	Sodium	ICP	EPA 200.7	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: DW07 --Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW07.02050	Vanadium	ICP	EPA 200.7	NY
Certified	Yes	DW07.02100	Zinc	ICP	EPA 200.7	NY
Certified	Yes	DW07.02150	Aluminum	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02200	Antimony	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02250	Arsenic	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02300	Barium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02350	Beryllium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02400	Cadmium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02450	Chromium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02550	Copper	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02600	Lead	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02650	Manganese	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02750	Molybdenum	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02800	Nickel	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02850	Selenium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02900	Silver	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02950	Thallium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.03000	Uranium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.03050	Vanadium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.03100	Zinc	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.03150	Calcium-hardness	Ca as Carbonate, ICP	SM 2340 B	NY

Category: DW08 --Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW08.03550	Dibromo-3-chloropropane (1,2-)	Solvent Extract, GC	EPA 504.1	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: DW08 --Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW08.03600	Dibromoethane (1,2-) (EDB)	Solvent Extract, GC	EPA 504.1	NY
Certified	Yes	DW08.03650	Trichloropropane (1,2,3-)	Solvent Extract, GC	EPA 504.1	NY
Certified	Yes	DW08.07150	PCB 1016	GC, Extract, ECD, Screen	EPA 508	NY
Certified	Yes	DW08.07200	PCB 1221	GC, Extract, ECD, Screen	EPA 508	NY
Certified	Yes	DW08.07250	PCB 1232	GC, Extract, ECD, Screen	EPA 508	NY
Certified	Yes	DW08.07300	PCB 1242	GC, Extract, ECD, Screen	EPA 508	NY
Certified	Yes	DW08.07350	PCB 1248	GC, Extract, ECD, Screen	EPA 508	NY
Certified	Yes	DW08.07400	PCB 1254	GC, Extract, ECD, Screen	EPA 508	NY
Certified	Yes	DW08.07450	PCB 1260	GC, Extract, ECD, Screen	EPA 508	NY
Certified	Yes	DW08.11200	D (2,4-)	Liquid/Liquid Extraction/GC	EPA 515.3	NY
Certified	Yes	DW08.11250	Dalapon	Liquid/Liquid Extraction/GC	EPA 515.3	NY
Certified	Yes	DW08.11450	Dicamba	Liquid/Liquid Extraction/GC	EPA 515.3	NY
Certified	Yes	DW08.11600	Dinoseb	Liquid/Liquid Extraction/GC	EPA 515.3	NY
Certified	Yes	DW08.11750	Pentachlorophenol	Liquid/Liquid Extraction/GC	EPA 515.3	NY
Certified	Yes	DW08.11800	Picloram	Liquid/Liquid Extraction/GC	EPA 515.3	NY
Certified	Yes	DW08.11900	TP (2,4,5-) (Silvex)	Liquid/Liquid Extraction/GC	EPA 515.3	NY
Certified	Yes	DW08.13300	Aldicarb	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13350	Aldicarb sulfone	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13400	Aldicarb sulfoxide	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13450	Carbaryl	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13500	Carbofuran (furadan)	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13550	Hydroxy carbofuran (3-)	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13650	Methomyl (Lannate)	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13700	Oxamyl	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13900	Glyphosate	HPLC	EPA 547	NY
Certified	Yes	DW08.14000	Diquat	HPLC	EPA 549.2	NY
Certified	Yes	DW08.17550	Bromochloroacetic acid	Liquid/Liquid Extraction/GC	EPA 552.2	NY

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: DW08 --Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW08.17750	Dibromoacetic acid	Liquid/Liquid Extraction/GC	EPA 552.2	NY
Certified	Yes	DW08.17800	Dichloroacetic acid	Liquid/Liquid Extraction/GC	EPA 552.2	NY
Certified	Yes	DW08.17850	Monobromoacetic acid (MBAA)	Liquid/Liquid Extraction/GC	EPA 552.2	NY
Certified	Yes	DW08.17900	Monochloroacetic acid (MCAA)	Liquid/Liquid Extraction/GC	EPA 552.2	NY
Certified	Yes	DW08.18000	Trichloroacetic acid	Liquid/Liquid Extraction/GC	EPA 552.2	NY

Category: DW09 --Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW09.11400	Dioxane (1,4-)	SPE, GC/MS/SIM	EPA 522	NY
Certified	Yes	DW09.11600	Benzene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.11650	Bromobenzene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.11700	Bromochloromethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.11750	Bromodichloromethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.11800	Bromoform	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.11850	Bromomethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.11950	Butylbenzene (n-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12050	Carbon tetrachloride	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12150	Chlorobenzene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12250	Chloroethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12300	Chloroform	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12350	Chloromethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12400	Chlorotoluene (2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12450	Chlorotoluene (4-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12550	Dibromochloromethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12650	Dibromomethane	GC/MS, P & T	EPA 524.2	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: DW09 --Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW09.12750	Dichlorobenzene (1,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12800	Dichlorobenzene (1,3-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12850	Dichlorobenzene (1,4-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12900	Dichlorodifluoromethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12950	Dichloroethane (1,1-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13000	Dichloroethane (1,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13050	Dichloroethene (1,1-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13100	Dichloroethene (cis-1,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13150	Dichloroethene (trans-1,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13200	Dichloropropane (1,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13250	Dichloropropane (1,3-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13300	Dichloropropane (2,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13400	Dichloropropene (1,1-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13450	Dichloropropene (cis-1,3-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13500	Dichloropropene (trans-1,3-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13700	Ethylbenzene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13800	Hexachlorobutadiene (1,3)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14000	Isopropylbenzene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14050	Isopropyltoluene (4-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14300	Methyl tert-butyl ether	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14350	Methylene chloride (Dichloromethane)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14400	Naphthalene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14700	Propylbenzene (n-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14750	Sec-butylbenzene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14800	Styrene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14950	Tert-butylbenzene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15000	Tetrachloroethane (1,1,1,2-)	GC/MS, P & T	EPA 524.2	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: DW09 --Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW09.15050	Tetrachloroethane (1,1,2,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15100	Tetrachloroethene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15200	Toluene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15250	Trichlorobenzene (1,2,3-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15300	Trichlorobenzene (1,2,4-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15400	Trichloroethane (1,1,1-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15450	Trichloroethane (1,1,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15500	Trichloroethene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15550	Trichlorofluoromethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.16000	Trichloropropane (1,2,3-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.16050	Trimethylbenzene (1,2,4-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.16100	Trimethylbenzene (1,3,5-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.16150	Vinyl chloride	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.16300	Xylenes (total)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.27350	Alachlor	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27400	Atrazine	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27450	Benzo(a)pyrene	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27500	Chlordane (technical)	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27550	Di(2-ethylhexyl)adipate	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27600	Di(2-ethylhexyl)phthalate	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27650	Endrin	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27700	Heptachlor	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27750	Heptachlor epoxide	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27800	Hexachlorobenzene	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27850	Hexachlorocyclopentadiene	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27900	Lindane (gamma BHC)	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27950	Methoxychlor	SPE, GC/MS	EPA 525.3	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: DW09 --Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW09.28100	Simazine	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.28150	Toxaphene	SPE, GC/MS	EPA 525.3	NY

Category: NPW01--Microbiology

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW01.00200	Enterococci	Multiple Tube/Mutiple Well - Enterolert	Other Enterolert	NY
Certified	Yes	NPW01.00650	Escherichia coli (E coli)	Membrane Filter - M-Coliblue 24 Test	Other m-ColiBlue24	NY
Dropped	No	NPW01.00660	Escherichia coli (E coli)	Membrane Filter	SM 9222 B-06/9222 G-06	NY
Certified	Yes	NPW01.00750	Escherichia coli (E coli)	MPN/Multiple Tube/Multiple Well	Other Colilert	NY
Certified	Yes	NPW01.01300	Fecal coliform	Multiple Tube/Mutiple Well	Other Colilert 18	NY
Certified	Yes	NPW01.01650	Fecal coliform	Membrane Filter (MF), Single Step	SM 9222 D-15	NY
Certified	Yes	NPW01.02100	Heterotrophic plate count	Pour Plate	SM 9215 B-04	NY
Certified	Yes	NPW01.02800	Total coliform	MF Single Step	SM 9222 B-15	NY

Category: NPW03--Inorganic Parameters

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW03.00100	Acidity as CaCO3	Electrometric or Phenolphthalein	SM 2310 B-20	NY
Certified	Yes	NPW03.00350	Alkalinity as CaCO3	Electrometric Titration	SM 2320 B-21	NY
Certified	Yes	NPW03.01100	Ammonia	Distillation or Gas Diffusion, Semi-automated Phenate	EPA 350.1	NY
Certified	Yes	NPW03.01550	Biochemical oxygen demand	Dissolved Oxygen Depletion - Membrane Electrode	SM 5210 B-16	NY
Certified	Yes	NPW03.02400	Bromide	Ion Chromatography	EPA 300.0	NY
Certified	Yes	NPW03.02900	Carbonaceous BOD (CBOD)	Diss. Oxygen Depl., Nitrif. Inhib. - Membrane Electrode	SM 5210 B-16	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW03--Inorganic Parameters

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW03.03600	Chemical oxygen demand	Spectrophotometric Manual/Auto	SM 5220 D-11	NY
Certified	Yes	NPW03.04550	Chloride	Colorimetric, Automated (Ferricyanide)	SM 4500-Cl E-21	NY
Certified	Yes	NPW03.04900	Chloride	Ion Chromatography	EPA 300.0	NY
Certified	Yes	NPW03.06000	Color	Colorimetric (Platinum-Cobalt)	SM 2120 B-21	NY
Certified	Yes	NPW03.06750	Cyanide	Distillation, Spectrophotometric (Auto)	EPA 335.4	NY
Certified	Yes	NPW03.06850	Cyanide	Colorimetric, Automated	SW-846 9012B	NY
Certified	Yes	NPW03.07200	Cyanide	Distillation	SW-846 9010C	NY
Certified	Yes	NPW03.09400	Kjeldahl nitrogen - total	Auto Digestion, Auto Distillation, Auto Phenate	EPA 351.1	NY
Certified	Yes	NPW03.11050	Nitrate	Ion Chromatography	EPA 300.0	NY
Certified	Yes	NPW03.11950	Nitrate - nitrite	Cadmium Reduction, Automated	EPA 353.2	NY
Certified	Yes	NPW03.12450	Nitrate - nitrite	Ion Chromatography	EPA 300.0	NY
Certified	Yes	NPW03.13100	Nitrite	Auto, bypass Cd reduction	EPA 353.2	NY
Certified	Yes	NPW03.13650	Nitrite	Ion Chromatography	EPA 300.0	NY
Certified	Yes	NPW03.14100	Oil & grease - hem-LL	Gravimetric, Hexane Extractable Material-LL	EPA 1664A	NY
Certified	Yes	NPW03.14300	Oil & grease - hem-SPE	Gravimetric, Hexane Extractable Material-SPE	EPA 1664B	NY
Certified	Yes	NPW03.14500	Oil & grease - sgt-non polar	Gravimetric, Silica Gel Treated-Hem-SPE	EPA 1664A	NY
Certified	Yes	NPW03.14850	Organic nitrogen	Total Kjeldahl-N Minus Ammonia-N	EPA TKN - NH3 method references	NY
Certified	Yes	NPW03.15050	Orthophosphate	Ascorbic Acid, Automated	SM 4500-P F-21	NY
Certified	Yes	NPW03.15350	Orthophosphate	Ascorbic Acid, Manual Single Reagent	SM 4500-P E-21	NY
Certified	Yes	NPW03.16850	Phenols	Manual Distillation, Colorimetric Auto	EPA 420.4	NY
Certified	Yes	NPW03.17150	Phosphorus (total)	Persulfate Digestion + Manual	SM 4500-P B5 plus E-21	NY
Certified	Yes	NPW03.17850	Residue - filterable (TDS)	Gravimetric, 180 Degrees C	SM 2540 C-20	NY
Certified	Yes	NPW03.18000	Residue - nonfilterable (TSS)	Gravimetric, 103-105 Degrees C, Post Washing	SM 2540 D-20	NY
Certified	Yes	NPW03.18100	Residue - settleable	Volumetric (Imhoff Cone) or Gravimetric	SM 2540 F-20	NY
Certified	Yes	NPW03.18150	Residue - total	Gravimetric, 103-105 Degrees C	SM 2540 B-20	NY
Certified	Yes	NPW03.18300	Residue - volatile	Gravimetric, 550 Degrees C	SM 2540 E-20	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW03--Inorganic Parameters

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW03.18800	Specific conductance	Wheatstone Bridge	SM 2510 B-21	NY
Dropped	No	NPW03.19650	Sulfate	Gravimetric	SM 4500-SO4 D-21	NY
Certified	Yes	NPW03.19850	Sulfate	Ion Chromatography	EPA 300.0	NY
Certified	Yes	NPW03.20500	Sulfides	Colorimetric (Methylene Blue)	SM 4500-S2 B, C plus D-21	NY
Certified	Yes	NPW03.20750	Surfactants	Colorimetric (Methylene Blue)	SM 5540 C-21	NY
Certified	Yes	NPW03.21110	Total organic carbon (TOC)	Combustion	SM 5310 B-14	NY
Certified	Yes	NPW03.22150	Turbidity	Nephelometric	SM 2130 B-20	NY

Category: NPW06--Metals - NPW Preparation Methods

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW06.00200	Metals, Total Rec and Dissolved	Acid Digestion/Surface and Groundwater	SW-846 3005A	NY
Certified	Yes	NPW06.00250	Metals, Total	Acid Digestion/Aqueous Samples	SW-846 3010A	NY
Certified	Yes	NPW06.00350	Metals	Acid Digestion/Aqueous	SW-846 3020A	NY

Category: NPW07--Metals

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW07.03100	Thallium	Digestion, Platform Furnace	EPA 200.9	NY
Certified	Yes	NPW07.03350	Mercury	Manual Cold Vapor	EPA 245.1	NY
Certified	Yes	NPW07.07300	Antimony	Digestion, AA Furnace	SM 3113 B-20	NY
Certified	Yes	NPW07.07350	Arsenic	Digestion, AA Furnace	SM 3113 B-20	NY
Certified	Yes	NPW07.07750	Lead	Digestion, AA Furnace	SM 3113 B-20	NY
Certified	Yes	NPW07.07950	Selenium	Digestion, AA Furnace	SM 3113 B-20	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW07--Metals

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW07.08000	Silver	Digestion, AA Furnace	SM 3113 B-20	NY
Certified	Yes	NPW07.08050	Thallium	Digestion, AA Furnace	SM 3113 B-20	NY
Certified	Yes	NPW07.08650	Chromium (VI)	0.45u Filter, Colorimetric DPC	SM 3500-Cr B-20	NY
Certified	Yes	NPW07.10800	Antimony	AA, Graphite Furnace	SW-846 7010	NY
Certified	Yes	NPW07.10850	Arsenic	AA, Graphite Furnace	SW-846 7010	NY
Certified	Yes	NPW07.11000	Cadmium	AA, Graphite Furnace	SW-846 7010	NY
Certified	Yes	NPW07.11250	Lead	AA, Graphite Furnace	SW-846 7010	NY
Certified	Yes	NPW07.11450	Selenium	AA, Graphite Furnace	SW-846 7010	NY
Certified	Yes	NPW07.11500	Silver	AA, Graphite Furnace	SW-846 7010	NY
Certified	Yes	NPW07.11550	Thallium	AA, Graphite Furnace	SW-846 7010	NY
Certified	Yes	NPW07.11950	Chromium (VI)	Colorimetric	SW-846 7196A	NY
Certified	Yes	NPW07.12150	Mercury - liquid waste	AA, Manual Cold Vapor	SW-846 7470A	NY

Category: NPW08--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW08.04150	Aluminum	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04200	Antimony	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04250	Arsenic	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04300	Barium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04350	Beryllium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04400	Boron	ICP	EPA 200.7	NY
Certified	Yes	NPW08.04450	Cadmium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04500	Calcium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04550	Chromium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04600	Cobalt	Digestion, ICP	EPA 200.7	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW08--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW08.04650	Copper	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04700	Iron	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04750	Lead	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04850	Magnesium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04900	Manganese	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04950	Molybdenum	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05000	Nickel	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05050	Phosphorus (total)	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05100	Potassium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05150	Selenium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05250	Silver	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05300	Sodium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05350	Strontium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05400	Thallium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05450	Tin	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05500	Titanium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05550	Vanadium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05600	Zinc	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05650	Aluminum	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.05700	Antimony	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.05750	Arsenic	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.05800	Barium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.05850	Beryllium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.05950	Cadmium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06000	Calcium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06050	Chromium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06100	Cobalt	Digestion, ICP/MS	EPA 200.8	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW08--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW08.06150	Copper	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06200	Gold	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06250	Iron	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06300	Lead	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06350	Magnesium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06400	Manganese	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06450	Molybdenum	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06500	Nickel	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06550	Potassium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06600	Selenium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06700	Silver	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06750	Sodium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06800	Strontium	ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06850	Thallium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06950	Tin	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.07000	Titanium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.07150	Vanadium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.07200	Zinc	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.09800	Hardness - total as CaCO3	Ca + Mg Carbonates, ICP	SM 2340 B-21	NY
Certified	Yes	NPW08.12800	Aluminum	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.12850	Antimony	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.12900	Arsenic	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.12950	Barium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13000	Beryllium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13050	Boron	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13100	Cadmium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13150	Calcium	ICP	SW-846 6010D	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW08--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW08.13200	Chromium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13250	Cobalt	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13300	Copper	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13350	Iron	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13400	Lead	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13500	Magnesium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13550	Manganese	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13600	Molybdenum	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13650	Nickel	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13750	Potassium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13800	Selenium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13850	Silver	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13900	Sodium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13950	Strontium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.14000	Thallium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.14100	Tin	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.14150	Titanium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.14250	Vanadium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.14300	Zinc	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.14400	Aluminum	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14450	Antimony	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14500	Arsenic	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14550	Barium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14600	Beryllium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14700	Cadmium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14750	Calcium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14800	Chromium	ICP/MS	SW-846 6020B	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW08--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW08.14850	Cobalt	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14900	Copper	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14950	Iron	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15000	Lead	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15050	Magnesium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15100	Manganese	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15150	Molybdenum	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15200	Nickel	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15250	Potassium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15300	Selenium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15400	Silver	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15450	Sodium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15550	Thallium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15650	Tin	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15700	Titanium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15850	Vanadium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15900	Zinc	ICP/MS	SW-846 6020B	NY

Category: NPW09--Organics - NPW Preparation Methods

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW09.00500	Semivolatile organics	Separatory Funnel Extraction	SW-846 3510C	NY
Certified	Yes	NPW09.00600	Semivolatile organics	Continuous Liquid-Liquid Extraction	SW-846 3520C	NY
Certified	Yes	NPW09.00900	Semivolatile organics	Cleanup-Silica Gel	SW-846 3630C	NJ
Certified	Yes	NPW09.01550	Volatile organics	Purge & Trap Aqueous	SW-846 5030C	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.19150	Aldrin	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.19200	Alpha BHC	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.19300	Beta BHC	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.19650	Chlordane	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20050	DDD (4,4'-)	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20100	DDE (4,4'-)	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20150	DDT (4,4'-)	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20200	Delta BHC	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20350	Dieldrin	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20400	Endosulfan I	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20450	Endosulfan II	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20500	Endosulfan sulfate	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20550	Endrin	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20600	Endrin aldehyde	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20800	Heptachlor	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20850	Heptachlor epoxide	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.21000	Lindane (gamma BHC)	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.21050	Methoxychlor	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.21800	Toxaphene	Extract/GC (ECD)	EPA 608.3	NY
Applied	No	NPW10.21900	PCB 1016	Extract/GC (ECD)	EPA 608.3	NY
Applied	No	NPW10.21950	PCB 1221	Extract/GC (ECD)	EPA 608.3	NY
Applied	No	NPW10.22000	PCB 1232	Extract/GC (ECD)	EPA 608.3	NY
Applied	No	NPW10.22050	PCB 1242	Extract/GC (ECD)	EPA 608.3	NY
Applied	No	NPW10.22100	PCB 1248	Extract/GC (ECD)	EPA 608.3	NY
Applied	No	NPW10.22150	PCB 1254	Extract/GC (ECD)	EPA 608.3	NY
Applied	No	NPW10.22200	PCB 1260	Extract/GC (ECD)	EPA 608.3	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.31650	Extractable Petroleum Hydrocarbons	Extraction, GC, FID	Other NJDEP EPH 10/08, Rev. 3	NJ
Certified	Yes	NPW10.39250	Dibromo-3-chloropropane (1,2-)	Extract/GC (ECD)	SW-846 8011	NY
Certified	Yes	NPW10.39300	Dibromoethane (1,2-) (EDB)	Extract/GC (ECD)	SW-846 8011	NY
Certified	Yes	NPW10.39350	Trichloropropane (1,2,3-)	Extract/GC (ECD)	SW-846 8011	NY
Certified	Yes	NPW10.39800	Diesel range organic	Extraction, GC, FID	SW-846 8015D	NY
Certified	Yes	NPW10.40000	Ethyl alcohol	GC, Direct Injection, FID	SW-846 8015D	NY
Certified	Yes	NPW10.40050	Ethylene glycol	GC, Direct Injection, FID	SW-846 8015D	NY
Certified	Yes	NPW10.40200	Gasoline range organic	GC P&T, FID	SW-846 8015D	NY
Certified	Yes	NPW10.40300	Iso-butyl alcohol	GC, Direct Injection or P & T, FID	SW-846 8015D	NY
Certified	Yes	NPW10.40800	Propylene glycol	GC, Direct Injection, FID	SW-846 8015D	NY
Certified	Yes	NPW10.44600	Aldrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.44650	Alpha BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.44750	Beta BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.44800	Chlordane (alpha) (cis-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.44850	Chlordane (gamma) (trans-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.44900	Chlordane (technical)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45250	DDD (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45300	DDE (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45350	DDT (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45400	Delta BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45450	Dieldrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45500	Endosulfan I	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45550	Endosulfan II	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45600	Endosulfan sulfate	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45650	Endrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45700	Endrin aldehyde	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45750	Endrin ketone	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.45850	Heptachlor	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45900	Heptachlor epoxide	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45950	Hexachlorobenzene	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.46050	Lindane (gamma BHC)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.46100	Methoxychlor	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.46450	Toxaphene	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.46650	Trichlorobiphenyl (2,2',5-) (PCB 18)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.46750	Tetrachlorobiphenyl (2,2',3,5'-) (PCB 44)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.46800	Tetrachlorobiphenyl (2,2',5,5'-) (PCB 52)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.46850	Tetrachlorobiphenyl (2,3',4,4'-) (PCB 66)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.46900	Pentachlorobiphenyl (2,2',3,4,5'-) (PCB 87)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.46950	Pentachlorobiphenyl (2,2',4,5,5'-) (PCB 101)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47050	Pentachlorobiphenyl (2,3',4,4',5-) (PCB 118)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47100	Hexachlorobiphenyl (2,2',3,3',4,4'-) (PCB 128)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47150	Hexachlorobiphenyl (2,2',3,4,4',5'-) (PCB 138)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47300	Hexachlorobiphenyl (2,2',4,4',5,5'-) (PCB 153)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47350	Heptachlorobiphonyl (2,2',3,3',4,4',5) (PCB 170)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47400	Heptachlorobiphenyl (2,2',3,4,4',5,5'-) (PCB 180)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47450	Heptachlorobiphenyl (2,2',3,4,4',5',6-) (PCB 183)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47500	Heptachlorobiphenyl (2,2',3,4',5,5',6-) (PCB 187)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47550	Nonachlorobiphenyl (2,2',3,3',4,4',5,5',6-) (PCB 206)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.47600	PCB 1016	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47650	PCB 1221	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47700	PCB 1232	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47750	PCB 1242	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47800	PCB 1248	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47850	PCB 1254	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47900	PCB 1260	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47950	PCB 1262	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.48000	PCB 1268	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.52700	Atrazine	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	NPW10.52750	Azinphos methyl	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	NPW10.53050	Diazinon	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	NPW10.53250	Disulfoton	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	NPW10.54500	Malathion	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	NPW10.54900	Simazine	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	NPW10.55350	D (2,4-)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.55400	Dalapon	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.55450	DB (2,4-)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.55550	Dicamba	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.55650	Dichlorprop	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.55700	Dinoseb	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.55950	Pentachlorophenol	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.56050	T (2,4,5-)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.56100	TP (2,4,5-) (Silvex)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.57050	Formaldehyde	HPLC, Extraction, Derivatization	SW-846 8315A	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.38400	Acetone	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.38500	Acrolein	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.38550	Acrylonitrile	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.38750	Benzene	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.38900	Bromodichloromethane	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39000	Bromoform	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39050	Bromomethane	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39500	Carbon tetrachloride	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39550	Chlorobenzene	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39600	Chloroethane	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39650	Chloroethyl vinyl ether (2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39700	Chloroform	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39750	Chloromethane	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40100	Dibromochloromethane	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40350	Dichlorobenzene (1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40400	Dichlorobenzene (1,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40450	Dichlorobenzene (1,4-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40500	Dichlorodifluoromethane	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40550	Dichloroethane (1,1-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40600	Dichloroethane (1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40650	Dichloroethene (1,1-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40700	Dichloroethene (cis-1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40750	Dichloroethene (trans-1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40800	Dichloropropane (1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.41000	Dichloropropene (cis-1,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.41050	Dichloropropene (trans-1,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.41450	Ethylbenzene	GC/MS, P & T, Capillary Column	EPA 624.1	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.42450	Methyl tert-butyl ether	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.42550	Methylene chloride (Dichloromethane)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.42600	Naphthalene	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43000	Styrene	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43300	Tetrachloroethane (1,1,2,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43350	Tetrachloroethene	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43450	Toluene	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43500	Trichloro (1,1,2-) trifluoroethane (1,2,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43650	Trichloroethane (1,1,1-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43700	Trichloroethane (1,1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43750	Trichloroethene	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43800	Trichlorofluoromethane	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.44100	Vinyl chloride	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.44150	Xylene (m- + p-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.44250	Xylene (o-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.44350	Xylenes (total)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.44400	Acenaphthene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.44450	Acenaphthylene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.44650	Alpha - terpineol	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.44800	Aniline	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.44850	Anthracene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45200	Benzidine	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45250	Benzo(a)anthracene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45300	Benzo(a)pyrene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45350	Benzo(b)fluoranthene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45400	Benzo(ghi)perylene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45500	Benzo(k)fluoranthene	Extract, GC/MS	EPA 625.1	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.45700	Bis (2-chloroethoxy) methane	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45750	Bis (2-chloroethyl) ether	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45800	Bis(2-chloroisopropyl)ether|2,2'-oxybis(1-chloropropane)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45850	Bis (2-ethylhexyl) phthalate	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.46000	Bromophenyl-phenyl ether (4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.46050	Butylbenzylphthalate	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.46250	Carbazole	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.46550	Chloronaphthalene (2-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.46650	Chlorophenol (2-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.46700	Chlorophenyl-phenyl ether (4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.46900	Chrysene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.47500	Dibenzo(a,h)anthracene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.47750	Dichlorobenzidine (3,3'-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.47800	Dichlorophenol (2,4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.47950	Diethyl phthalate	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48100	Dimethyl phthalate	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48250	Dimethylphenol (2,4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48300	Di-n-butyl phthalate	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48400	Dinitrophenol (2,4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48450	Dinitrophenol (2-methyl-4,6-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48500	Dinitrotoluene (2,4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48550	Dinitrotoluene (2,6-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48600	Di-n-octyl phthalate	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48700	Diphenylhydrazine / Azobenzene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49250	Fluoranthene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49300	Fluorene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49350	Hexachlorobenzene	Extract, GC/MS	EPA 625.1	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.49400	Hexachlorobutadiene (1,3-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49450	Hexachlorocyclopentadiene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49500	Hexachloroethane	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49700	Indeno(1,2,3-cd)pyrene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49800	Isophorone	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.50350	Methyl phenol (4-chloro-3-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.50450	Methylnaphthalene (2-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.50550	Methylphenol (2-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.50600	Methylphenol (3-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.50650	Methylphenol (4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.50950	Naphthalene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.51300	Nitrobenzene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.51350	Nitrophenol (2-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.51400	Nitrophenol (4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.51500	N-Nitrosodimethylamine	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.51550	N-Nitroso-di-n-propylamine	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.51600	N-Nitrosodiphenylamine / Diphenylamine	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.52550	Pentachlorophenol	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.52700	Phenanthrene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.52750	Phenol	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.53400	Pyrene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.53450	Pyridine	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.55400	Trichlorobenzene (1,2,4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.55500	Trichlorophenol (2,4,5-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.55550	Trichlorophenol (2,4,6-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.68750	Acetone	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.68850	Acrolein	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.68900	Acrylonitrile	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69050	Amyl alcohol (t-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69100	Benzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69200	Bromobenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69250	Bromochloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69300	Bromodichloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69400	Bromoform	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69450	Bromomethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69650	Butanone (2-) (Methyl ethyl ketone)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69850	Butylbenzene (n-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69900	Carbon disulfide	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69950	Carbon tetrachloride	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70000	Chlorobenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70050	Chloroethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70100	Chloroethyl vinyl ether (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70150	Chloroform	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70200	Chloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70250	Chlorotoluene (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70300	Chlorotoluene (4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70400	Cyclohexane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70500	Dibromo-3-chloropropane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70550	Dibromochloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70600	Dibromoethane (1,2-) (EDB)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70650	Dibromomethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70750	Dichloro-2-butene (trans-1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70800	Dichlorobenzene (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70850	Dichlorobenzene (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.70900	Dichlorobenzene (1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70950	Dichlorodifluoromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71000	Dichloroethane (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71050	Dichloroethane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71100	Dichloroethene (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71150	Dichloroethene (cis-1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71200	Dichloroethene (trans-1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71250	Dichloropropane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71300	Dichloropropane (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71350	Dichloropropane (2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71400	Dichloropropene (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71450	Dichloropropene (cis-1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71500	Dichloropropene (trans-1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71550	Diethyl ether (Ethyl ether)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71600	Diisopropyl Ether (DIPE)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71650	Dioxane (1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71700	Ethanol	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71900	Ethylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71950	Ethyl-tert-butyl Ether (ETBE)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72050	Hexachlorobutadiene (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72200	Hexanone (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72400	Isopropylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Applied	No	NPW11.72450	Isopropyltoluene (4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72550	Methyl acetate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72650	Methyl Iodide	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72750	Methyl tert-butyl ether	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72800	Methylcyclohexane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.72850	Methylene chloride (Dichloromethane)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73000	Naphthalene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73100	Nitropropane (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73350	Pentanone (4-methyl-2-) (MIBK)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73450	Propylbenzene (n-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73500	Sec-butylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73550	Styrene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73600	tert-Amylmethyl ether (TAME)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73700	Tert-butyl alcohol	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73750	Tert-butylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73800	Tetrachloroethane (1,1,1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73850	Tetrachloroethane (1,1,2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73900	Tetrachloroethene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74000	Toluene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74100	Trichloro (1,1,2-) trifluoroethane (1,2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74150	Trichlorobenzene (1,2,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74200	Trichlorobenzene (1,2,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74250	Trichloroethane (1,1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74300	Trichloroethane (1,1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74350	Trichloroethene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74400	Trichlorofluoromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74450	Trichloropropane (1,2,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74550	Trimethylbenzene (1,2,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74600	Trimethylbenzene (1,3,5-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74700	Vinyl acetate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74750	Vinyl chloride	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74800	Xylene (m-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.74850	Xylene (o-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74900	Xylene (p-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74950	Xylenes (total)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.75150	Acenaphthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.75200	Acenaphthylene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.75250	Acetophenone	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.75600	Aniline	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.75650	Anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.75750	Atrazine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.75850	Benzaldehyde	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.75950	Benzidine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76000	Benzo(a)anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76050	Benzo(a)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76100	Benzo(b)fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76150	Benzo(ghi)perylene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76250	Benzo(k)fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76300	Benzoic acid	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76400	Benzyl alcohol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76550	Biphenyl (1,1'-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76600	Bis (2-chloroethoxy) methane	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76650	Bis (2-chloroethyl) ether	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76700	Bis(2-chloroisopropyl)ether|2,2'-oxybis(1-chloropropane)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76750	Bis (2-ethylhexyl) phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76800	Bromophenyl-phenyl ether (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76850	Butylbenzylphthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76900	Caprolactam	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76950	Carbazole	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.77150	Chloroaniline (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.77300	Chloronaphthalene (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.77350	Chlorophenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.77400	Chlorophenyl-phenyl ether (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.77450	Chrysene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78000	Dibenzo(a,h)anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78200	Dibenzofuran	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78250	Dichlorobenzene (1,2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78300	Dichlorobenzene (1,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78350	Dichlorobenzene (1,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78400	Dichlorobenzidine (3,3'-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78450	Dichlorophenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78500	Dichlorophenol (2,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78600	Diethyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78750	Dimethyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79100	Dimethylphenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79150	Di-n-butyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79300	Dinitrophenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79350	Dinitrophenol (2-methyl-4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79400	Dinitrotoluene (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79450	Dinitrotoluene (2,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79500	Di-n-octyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79600	Dioxane (1,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79650	Diphenylhydrazine / Azobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80150	Fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80200	Fluorene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80350	Hexachlorobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.80400	Hexachlorobutadiene (1,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80450	Hexachlorocyclopentadiene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80500	Hexachloroethane	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80750	Indeno(1,2,3-cd)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80850	Isophorone	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81300	Methyl phenol (4-chloro-3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81450	Methylnaphthalene (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81500	Methylphenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81550	Methylphenol (3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81600	Methylphenol (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81650	Naphthalene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81850	Nitroaniline (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81900	Nitroaniline (3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81950	Nitroaniline (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.82000	Nitrobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.82100	Nitrophenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.82150	Nitrophenol (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.82250	N-Nitrosodimethylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.82350	N-Nitroso-di-n-propylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.82400	N-Nitrosodiphenylamine / Diphenylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.82700	Parathion	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.83250	Pentachloronitrobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.83300	Pentachlorophenol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.83400	Phenanthrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.83450	Phenol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.83850	Pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.83900	Pyridine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.84350	Tetrachlorobenzene (1,2,4,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.84400	Tetrachlorophenol (2,3,4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.84650	Trichlorobenzene (1,2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.84700	Trichlorophenol (2,4,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.84750	Trichlorophenol (2,4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.84900	Acenaphthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.84950	Acenaphthylene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85000	Anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85050	Benzo(a)anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85100	Benzo(a)pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85150	Benzo(b)fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85200	Benzo(ghi)perylene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85250	Benzo(k)fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85300	Chrysene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85350	Dibenzo(a,h)anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85550	Dioxane (1,4-)	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85600	Fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85650	Fluorene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85850	Indeno(1,2,3-cd)pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.86050	Naphthalene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.86200	Phenanthrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.86250	Pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY

Category: SCM02--Characteristics of Hazardous Waste

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM02--Characteristics of Hazardous Waste

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM02.00450	Free liquid	Flow-Through Paint Filter, Observation	SW-846 9095B	NY
Certified	Yes	SCM02.00560	Flash Point	Pensky-Martens	SW-846 1010B	NY
Certified	Yes	SCM02.00800	pH - soil and waste	Mix with Water or Calcium Chlorides	SW-846 9045D	NY

Category: SCM03--Inorganic Parameters and Preparation

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM03.00550	Bromide	Ion Chromatography	SW-846 9056A	NY
Certified	Yes	SCM03.00900	Chloride	Ion Chromatography	SW-846 9056A	NY
Certified	Yes	SCM03.01150	Cyanide	Distillation	SW-846 9010C	NY
Certified	Yes	SCM03.01250	Cyanide	Colorimetric, Automated	SW-846 9012B	NY
Certified	Yes	SCM03.01550	Cyanide - amenable to Cl2	Distillation	SW-846 9010C	NY
Certified	Yes	SCM03.01950	Fluoride	Ion Chromatography	SW-846 9056A	NY
Certified	Yes	SCM03.02700	Nitrate	Ion Chromatography	SW-846 9056A	NY
Certified	Yes	SCM03.03100	Nitrite	Ion Chromatography	SW-846 9056A	NY
Certified	Yes	SCM03.03200	Oil & grease - sludge-hem	Extraction & Gravimetric	SW-846 9071B	NY
Certified	Yes	SCM03.03650	Phenols	Colorimetric, Auto, 4AAP Distillation	SW-846 9066	NY
Certified	Yes	SCM03.03950	Specific conductance	Wheatstone Bridge	SW-846 9050A	NY
Certified	Yes	SCM03.04200	Sulfate	Ion Chromatography	SW-846 9056A	NY
Certified	Yes	SCM03.04450	Sulfides, acid sol. & insol.	Redox Titration	SW-846 9030B	NY
Certified	Yes	SCM03.04500	Sulfides, acid sol. & insol.	Titration	SW-846 9034	NY
Certified	No	SCM03.04650	Total organic carbon (TOC)	Infrared Spectrometry or FID	Other NJ Modified SM-846 9060A	NY
Certified	Yes	SCM03.04700	Total organic carbon (TOC)	Pyrolytic	Other Lloyd Kahn	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM05--Metals - SCM Preparation Methods

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM05.00050	Metals	Acid Digestion, Soil Sediment & Sludge	SW-846 3050B	NY
Certified	Yes	SCM05.00100	Metals	Chromium VI Digestion	SW-846 3060A	NY
Certified	Yes	SCM05.00350	Metals	Microwave Acid Digest: Soil Sediment & Sludge	SW-846 3051A	NY
Certified	Yes	SCM05.00550	Metals	Synthetic PPT Leachate Procedure	SW-846 1312	NY
Certified	Yes	SCM05.00600	Metals	TCLP, Toxicity Procedure, Shaker	SW-846 1311	NY

Category: SCM06--Metals

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM06.02600	Chromium (VI)	Colorimetric	SW-846 7196A	NY
Certified	Yes	SCM06.02800	Mercury - solid waste	AA, Manual Cold Vapor	SW-846 7471B	NY
Certified	Yes	SCM06.02850	Mercury - solid waste	AA, Thermal Decomposition, Amalgamation	SW-846 7473	NY

Category: SCM07--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM07.00001	Aluminum	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00050	Antimony	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00100	Arsenic	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00150	Barium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00200	Beryllium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00250	Boron	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00300	Cadmium	ICP	SW-846 6010D	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM07--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM07.00350	Calcium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00400	Chromium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00450	Cobalt	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00500	Copper	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00550	Iron	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00600	Lead	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00700	Magnesium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00750	Manganese	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00800	Molybdenum	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00850	Nickel	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00950	Potassium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01000	Selenium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01050	Silver	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01100	Sodium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01150	Strontium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01200	Thallium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01300	Tin	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01350	Titanium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01450	Vanadium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01500	Zinc	ICP	SW-846 6010D	NY

Category: SCM08--Organics - SCM Prep. / Screening Methods

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM08.00500	Organics	Waste Dilution	SW-846 3580A	NY
Certified	Yes	SCM08.00700	Semivolatile organics	TCLP, Toxicity Procedure, Shaker	SW-846 1311	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM08--Organics - SCM Prep. / Screening Methods

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM08.00750	Semivolatile organics	Soxhlet Extraction	SW-846 3540C	NY
Certified	Yes	SCM08.00850	Semivolatile organics	Pressurized Fluid Extraction	SW-846 3545A	NY
Certified	Yes	SCM08.00900	Semivolatile organics	Microwave Extraction	SW-846 3546	NY
Dropped	No	SCM08.00950	Semivolatile organics	Ultrasonic Extraction	SW-846 3550C	NY
Certified	Yes	SCM08.01400	Semivolatile organics	Cleanup-Silica Gel	SW-846 3630C	NJ
Certified	Yes	SCM08.01850	Volatile organics	TCLP, Toxicity Procedure, ZHE	SW-846 1311	NY
Certified	Yes	SCM08.01950	Volatile organics	Equilibrium Headspace	SW-846 5021A	NY
Certified	Yes	SCM08.02050	Volatile organics - high conc.	Methanol Extract, Closed System P & T	SW-846 5035A	NY
Certified	Yes	SCM08.02100	Volatile organics - low conc.	Closed System Purge & Trap	SW-846 5035A	NY

Category: SCM09--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM09.00150	Extractable Petroleum Hydrocarbons	Extraction, GC, FID	Other NJDEP EPH 10/08, Rev. 3	NJ
Certified	Yes	SCM09.00450	Diesel range organic	Extraction, GC, FID	SW-846 8015D	NY
Certified	Yes	SCM09.00500	Gasoline range organic	GC P&T, FID	SW-846 8015D	NY
Certified	Yes	SCM09.01300	Iso-butyl alcohol	GC, Direct Injection or P & T, FID	SW-846 8015D	NY
Certified	Yes	SCM09.01950	Ethylene glycol	GC, Direct Injection, FID	SW-846 8015D	NY
Certified	Yes	SCM09.05650	Aldrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.05700	Alpha BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.05800	Beta BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.05850	Chlordane (alpha) (cis-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.05900	Chlordane (gamma) (trans-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.05950	Chlordane (technical)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06300	DDD (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM09--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary Stats
Certified	Yes	SCM09.06350	DDE (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06400	DDT (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06450	Delta BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06500	Dieldrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06550	Endosulfan I	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06600	Endosulfan II	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06650	Endosulfan sulfate	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06700	Endrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06750	Endrin aldehyde	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06800	Endrin ketone	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06900	Heptachlor	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06950	Heptachlor epoxide	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.07100	Lindane (gamma BHC)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.07150	Methoxychlor	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.07300	Mirex	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.07500	Toxaphene	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.07750	Heptachlorobiphenyl (2,2',3,3',4,4',5-) (PCB 170)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.07800	Heptachlorobiphenyl (2,2',3,4,4',5,5'-) (PCB 180)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.07850	Heptachlorobiphenyl (2,2',3,4,4',5',6-) (PCB 183)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.07900	Heptachlorobiphenyl (2,2',3,4',5,5',6-) (PCB 187)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.07950	Hexachlorobiphenyl (2,2',3,3',4,4'-) (PCB 128)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08000	Hexachlorobiphenyl (2,2',3,4,4',5'-) (PCB 138)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08150	Hexachlorobiphenyl (2,2',4,4',5,5'-) (PCB 153)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM09--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM09.08200	Nonachlorobiphenyl (2,2',3,3',4,4',5,5',6-) (PCB 206)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08250	Pentachlorobiphenyl (2,2',3,4,5'-) (PCB 87)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08300	Pentachlorobiphenyl (2,2',4,5,5'-) (PCB 101)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08400	Pentachlorobiphenyl (2,3',4,4',5-) (PCB 118)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08450	Tetrachlorobiphenyl (2,2',3,5'-) (PCB 44)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08500	Tetrachlorobiphenyl (2,2',5,5'-) (PCB 52)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08550	Tetrachlorobiphenyl (2,3',4,4'-) (PCB 66)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08600	Trichlorobiphenyl (2,2',5-) (PCB 18)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08700	PCB 1016	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08750	PCB 1221	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08800	PCB 1232	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08850	PCB 1242	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08900	PCB 1248	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08950	PCB 1254	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09000	PCB 1260	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09050	PCB 1262	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09100	PCB 1268	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09105	PCB 1016 (Oil)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09110	PCB 1221 (Oil)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09115	PCB 1232 (Oil)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09120	PCB 1242 (Oil)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09125	PCB 1248 (Oil)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09130	PCB 1254 (Oil)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09135	PCB 1260 (Oil)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.13850	Azinphos methyl	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM09--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM09.14150	Diazinon	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	SCM09.14300	Disulfoton	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	SCM09.14550	Malathion	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	SCM09.14950	Simazine	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	SCM09.15400	D (2,4-)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.15450	Dalapon	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.15500	DB (2,4-)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16000	Dicamba	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16100	Dichlorprop	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16150	Dinoseb	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16250	MCPA	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16300	MCPP	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16400	Pentachlorophenol	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16500	T (2,4,5-)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16550	TP (2,4,5-) (Silvex)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.17500	Formaldehyde	HPLC, Extraction, Derivatization	SW-846 8315A	NY

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.22900	Acetone	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23000	Acrolein	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23050	Acrylonitrile	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23200	Benzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23300	Bromobenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23350	Bromochloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.23400	Bromodichloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23500	Bromoform	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23550	Bromomethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23650	Butanone (2-) (Methyl ethyl ketone)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23800	Butylbenzene (n-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23850	Carbon disulfide	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23900	Carbon tetrachloride	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23950	Chlorobenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24000	Chloroethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24100	Chloroform	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24150	Chloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24200	Chlorotoluene (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24250	Chlorotoluene (4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24330	Cyclohexane	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24400	Dibromo-3-chloropropane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24450	Dibromochloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24500	Dibromoethane (1,2) (EDB)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24550	Dibromomethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24650	Dichloro-2-butene (trans-1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24700	Dichlorobenzene (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24750	Dichlorobenzene (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24800	Dichlorobenzene (1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24850	Dichlorodifluoromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24900	Dichloroethane (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24950	Dichloroethane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25000	Dichloroethene (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25050	Dichloroethene (cis-1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.25100	Dichloroethene (trans-1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25150	Dichloropropane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25200	Dichloropropane (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25250	Dichloropropane (2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25300	Dichloropropene (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25350	Dichloropropene (cis-1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25400	Dichloropropene (trans-1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25450	Diethyl ether (Ethyl ether)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25550	Dioxane (1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25750	Ethylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25850	Hexachlorobutadiene (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25950	Hexanone (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26150	Isopropylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26200	Isopropyltoluene (4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26280	Methyl acetate	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26330	Methylcyclohexane	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26450	Methyl tert-butyl ether	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26500	Methylene chloride (Dichloromethane)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26650	Naphthalene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26730	Nitropropane (2-)	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26850	Pentanone (4-methyl-2-) (MIBK)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26950	Propylbenzene (n-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27000	Sec-butylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27050	Styrene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27200	Tert-butyl alcohol	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27250	Tert-butylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27300	Tetrachloroethane (1,1,1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.27350	Tetrachloroethane (1,1,2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27400	Tetrachloroethene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27450	Tetrahydrofuran	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27500	Toluene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27600	Trichloro (1,1,2-) trifluoroethane (1,2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27650	Trichlorobenzene (1,2,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27700	Trichlorobenzene (1,2,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27750	Trichloroethane (1,1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27800	Trichloroethane (1,1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27850	Trichloroethene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27900	Trichlorofluoromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27950	Trichloropropane (1,2,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28000	Trimethylbenzene (1,2,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28050	Trimethylbenzene (1,3,5-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28150	Vinyl acetate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28200	Vinyl chloride	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28250	Xylene (m-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28300	Xylene (o-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28350	Xylene (p-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28400	Xylenes (total)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28900	Acenaphthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.28950	Acenaphthylene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29000	Acetophenone	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29350	Aniline	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29450	Anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29550	Atrazine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29650	Benzaldehyde	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.29750	Benzidine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29800	Benzo(a)anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29850	Benzo(a)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29900	Benzo(b)fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29950	Benzo(ghi)perylene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30050	Benzo(k)fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30100	Benzoic acid	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30200	Benzyl alcohol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30350	Biphenyl (1,1'-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30400	Bis (2-chloroethoxy) methane	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30450	Bis (2-chloroethyl) ether	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30500	Bis(2-chloroisopropyl)ether|2,2'-oxybis(1-chloropropane)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30550	Bis (2-ethylhexyl) phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30600	Bromophenyl-phenyl ether (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30650	Butylbenzylphthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30700	Caprolactam	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30750	Carbazole	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30950	Chloroaniline (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.31100	Chloronaphthalene (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.31150	Chlorophenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.31200	Chlorophenyl-phenyl ether (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.31250	Chrysene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.31800	Dibenzo(a,h)anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32000	Dibenzofuran	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32050	Dichlorobenzene (1,2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32100	Dichlorobenzene (1,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32150	Dichlorobenzene (1,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.32200	Dichlorobenzidine (3,3'-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32250	Dichlorophenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32300	Dichlorophenol (2,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32400	Diethyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32550	Dimethyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32900	Dimethylphenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32950	Di-n-butyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.33100	Dinitrophenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.33150	Dinitrophenol (2-methyl-4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.33200	Dinitrotoluene (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.33250	Dinitrotoluene (2,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.33300	Di-n-octyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.33450	Diphenylhydrazine / Azobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.33950	Fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.34000	Fluorene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.34150	Hexachlorobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.34200	Hexachlorobutadiene (1,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270F	NY
Certified	Yes	SCM10.34250	Hexachlorocyclopentadiene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.34300	Hexachloroethane	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.34550	Indeno(1,2,3-cd)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.34650	Isophorone	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35100	Methyl phenol (4-chloro-3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35250	Methylnaphthalene (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35300	Methylphenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35350	Methylphenol (3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35400	Methylphenol (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35450	Naphthalene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.35650	Nitroaniline (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35700	Nitroaniline (3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35750	Nitroaniline (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35800	Nitrobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35900	Nitrophenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35950	Nitrophenol (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.36050	N-Nitrosodimethylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.36150	N-Nitroso-di-n-propylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.36200	N-Nitrosodiphenylamine / Diphenylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.36500	Parathion	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.37050	Pentachloronitrobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.37100	Pentachlorophenol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.37200	Phenanthrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.37250	Phenol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.37650	Pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.37700	Pyridine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38150	Tetrachlorobenzene (1,2,4,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38200	Tetrachlorophenol (2,3,4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38450	Trichlorobenzene (1,2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38500	Trichlorophenol (2,4,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38550	Trichlorophenol (2,4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38700	Acenaphthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38750	Acenaphthylene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38800	Anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38850	Benzo(a)anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38900	Benzo(a)pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38950	Benzo(b)fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2025 until 6/30/2026

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 250001
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.39000	Benzo(ghi)perylene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39050	Benzo(k)fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39100	Chrysene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39150	Dibenzo(a,h)anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39250	Dioxane (1,4-)	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39300	Fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39350	Fluorene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39550	Indeno(1,2,3-cd)pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39700	Naphthalene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39850	Phenanthrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39900	Pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.41600	Ethylene glycol	GC/MS/SIM, Direct Aqueous Injection	User Defined SW-846 8260D	NY

Michele M. Potter, Manager

Appendix D

Laboratory Analytical Results - Soil

PHOENIX
Environmental Laboratories, Inc.

Monday, November 03, 2025

Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Project ID: **SAND1048-SUNSET PARK**
SDG ID: **GCU54188**
Sample ID#s: **CU54188 - CU54196**

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

November 03, 2025

SDG I.D.: GCU54188

Version 2:

Per client request hold sample CU54196 analyzed.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

November 03, 2025

SDG I.D.: GCU54188

Project ID: SAND1048-SUNSET PARK

Client Id	Lab Id	Matrix	Col Date
SB8-D1	CU54188	SOIL	10/16/25 0:00
SB8-D2	CU54189	SOIL	10/16/25 0:00
SB8-D4	CU54190	SOIL	10/16/25 0:00
SB8-D6	CU54191	SOIL	10/16/25 0:00
SB11-D10	CU54192	SOIL	10/16/25 0:00
SB11-D13	CU54193	SOIL	10/16/25 0:00
SB11-D14	CU54194	SOIL	10/16/25 0:00
SB11-D15	CU54195	SOIL	10/16/25 0:00
SB8-D5	CU54196	SOIL	10/16/25 0:00

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 03, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/16/25	
Location Code:	AES-INC	Received by:	CP	10/20/25	17:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0987				

Laboratory Data

SDG ID: GCU54188
Phoenix ID: CU54188

Project ID: SAND1048-SUNSET PARK
Client ID: SB8-D1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	191	0.37	mg/Kg	1	10/21/25	TH	SW6010D
TCLP Lead	14.6	0.10	mg/L	1	10/21/25	TH	SW846 1311/6010
TCLP Metals Digestion	Completed				10/21/25	AK/AK	SW3010A
Percent Solid	79		%		10/20/25	CV	SW846-%Solid
TCLP Extraction for Metals	Completed				10/20/25	AK	SW1311
Total Metals Digest	Completed				10/20/25	P/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
November 03, 2025
Reviewed and Released by: Anil Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 03, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/16/25	
Location Code:	AES-INC	Received by:	CP	10/20/25	17:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0987				

Laboratory Data

SDG ID: GCU54188
Phoenix ID: CU54189

Project ID: SAND1048-SUNSET PARK
Client ID: SB8-D2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	353	0.48	mg/Kg	1	10/22/25	TH	SW6010D
TCLP Lead	0.13	0.10	mg/L	1	10/21/25	TH	SW846 1311/6010
TCLP Metals Digestion	Completed				10/21/25	AK/AK	SW3010A
Percent Solid	73		%		10/20/25	CV	SW846-%Solid
TCLP Extraction for Metals	Completed				10/20/25	AK	SW1311
Total Metals Digest	Completed				10/21/25	P/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
November 03, 2025
Reviewed and Released by: Anil Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 03, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/16/25	
Location Code:	AES-INC	Received by:	CP	10/20/25	17:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0987				

Laboratory Data

SDG ID: GCU54188
Phoenix ID: CU54190

Project ID: SAND1048-SUNSET PARK
Client ID: SB8-D4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	95.5	0.38	mg/Kg	1	10/22/25	TH	SW6010D
TCLP Lead	0.12	0.10	mg/L	1	10/21/25	TH	SW846 1311/6010
TCLP Metals Digestion	Completed				10/21/25	AK/AK	SW3010A
Percent Solid	82		%		10/20/25	CV	SW846-%Solid
TCLP Extraction for Metals	Completed				10/20/25	AK	SW1311
Total Metals Digest	Completed				10/21/25	P/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
November 03, 2025
Reviewed and Released by: Anil Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 03, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/16/25	
Location Code:	AES-INC	Received by:	CP	10/20/25	17:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0987				

Laboratory Data

SDG ID: GCU54188
Phoenix ID: CU54191

Project ID: SAND1048-SUNSET PARK
Client ID: SB8-D6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	2450	0.43	mg/Kg	1	10/22/25	TH	SW6010D
TCLP Lead	8.81	0.10	mg/L	1	10/21/25	TH	SW846 1311/6010
TCLP Metals Digestion	Completed				10/21/25	AK/AK	SW3010A
Percent Solid	70		%		10/20/25	CV	SW846-%Solid
TCLP Extraction for Metals	Completed				10/20/25	AK	SW1311
Total Metals Digest	Completed				10/21/25	P/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
November 03, 2025
Reviewed and Released by: Anil Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 03, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/16/25	
Location Code:	AES-INC	Received by:	CP	10/20/25	17:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0987				

Laboratory Data

SDG ID: GCU54188
Phoenix ID: CU54192

Project ID: SAND1048-SUNSET PARK
Client ID: SB11-D10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	875	0.39	mg/Kg	1	10/22/25	TH	SW6010D
TCLP Lead	4.23	0.10	mg/L	1	10/21/25	TH	SW846 1311/6010
TCLP Metals Digestion	Completed				10/21/25	AK/AK	SW3010A
Percent Solid	81		%		10/20/25	CV	SW846-%Solid
TCLP Extraction for Metals	Completed				10/20/25	AK	SW1311
Total Metals Digest	Completed				10/21/25	P/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
November 03, 2025
Reviewed and Released by: Anil Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 03, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/16/25	
Location Code:	AES-INC	Received by:	CP	10/20/25	17:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0987				

Laboratory Data

SDG ID: GCU54188
Phoenix ID: CU54193

Project ID: SAND1048-SUNSET PARK
Client ID: SB11-D13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	1.32	0.37	mg/Kg	1	10/22/25	TH	SW6010D
TCLP Lead	< 0.10	0.10	mg/L	1	10/21/25	TH	SW846 1311/6010
TCLP Metals Digestion	Completed				10/21/25	AK/AK	SW3010A
Percent Solid	87		%		10/20/25	CV	SW846-%Solid
TCLP Extraction for Metals	Completed				10/20/25	AK	SW1311
Total Metals Digest	Completed				10/21/25	P/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
November 03, 2025
Reviewed and Released by: Anil Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 03, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/16/25	
Location Code:	AES-INC	Received by:	CP	10/20/25	17:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0987				

Laboratory Data

SDG ID: GCU54188
Phoenix ID: CU54194

Project ID: SAND1048-SUNSET PARK
Client ID: SB11-D14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	335	0.40	mg/Kg	1	10/22/25	TH	SW6010D
TCLP Lead	0.86	0.10	mg/L	1	10/21/25	TH	SW846 1311/6010
TCLP Metals Digestion	Completed				10/21/25	AK/AK	SW3010A
Percent Solid	77		%		10/20/25	CV	SW846-%Solid
TCLP Extraction for Metals	Completed				10/20/25	AK	SW1311
Total Metals Digest	Completed				10/21/25	P/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
November 03, 2025
Reviewed and Released by: Anil Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 03, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/16/25	
Location Code:	AES-INC	Received by:	CP	10/20/25	17:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	0987				

Laboratory Data

SDG ID: GCU54188
Phoenix ID: CU54195

Project ID: SAND1048-SUNSET PARK
Client ID: SB11-D15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	608	0.47	mg/Kg	1	10/22/25	TH	SW6010D
TCLP Lead	0.33	0.10	mg/L	1	10/21/25	TH	SW846 1311/6010
TCLP Metals Digestion	Completed				10/21/25	AK/AK	SW3010A
Percent Solid	69		%		10/20/25	CV	SW846-%Solid
TCLP Extraction for Metals	Completed				10/20/25	AK	SW1311
Total Metals Digest	Completed				10/21/25	P/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
November 03, 2025
Reviewed and Released by: Anil Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 03, 2025

FOR: Attn: Mr. Brian Pendergast
American Environmental Solutions, Inc
42 West Avenue
Patchogue, NY 11772

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/16/25	
Location Code:	AES-INC	Received by:	CP	10/20/25	17:57
Rush Request:	5 Day	Analyzed by:	see "By" below		
P.O.#:	0987				

Laboratory Data

SDG ID: GCU54188
Phoenix ID: CU54196

Project ID: SAND1048-SUNSET PARK
Client ID: SB8-D5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	1610	0.45	mg/Kg	1	10/28/25	TH	SW6010D
TCLP Lead	30.4	0.10	mg/L	1	10/28/25	CPP	SW846 1311/6010
TCLP Metals Digestion	Completed				10/28/25	AK/AK	SW3010A
Percent Solid	67		%		10/27/25	CV	SW846-%Solid
TCLP Extraction for Metals	Completed				10/27/25	AK	SW1311
Total Metals Digest	Completed				10/27/25	P/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
November 03, 2025
Reviewed and Released by: Anil Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

November 03, 2025

QA/QC Data

SDG I.D.: GCU54188

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 809443 (mg/L), QC Sample No: CU40888 (CU54188, CU54189, CU54190, CU54191, CU54192, CU54193, CU54194, CU54195)														
ICP Metals - TCLP Extraction														
Lead	BRL	0.010	<0.010	<0.010	NC	98.7	98.3	0.4	97.9			80 - 120	20	
Comment: Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.														
QA/QC Batch 810716 (mg/L), QC Sample No: CU52138 (CU54196)														
ICP Metals - TCLP Extraction														
Lead	BRL	0.10	0.54	0.98	57.9	98.5	99.3	0.8	104			80 - 120	20	r
Comment: Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.														
QA/QC Batch 809363 (mg/kg), QC Sample No: CU53691 (CU54188)														
ICP Metals - Soil														
Lead	BRL	0.33	8.34	7.12	15.8	89.5	89.4	0.1	93.4			75 - 125	30	
Comment: Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.														
QA/QC Batch 810614 (mg/kg), QC Sample No: CU54196 (CU54196)														
ICP Metals - Soil														
Lead	BRL	0.33	1610	2090	25.9	96.9	90.9	6.4	70.6			75 - 125	30	m
Comment: Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.														
QA/QC Batch 809553 (mg/kg), QC Sample No: CU54247 (CU54189, CU54190, CU54191, CU54192, CU54193, CU54194, CU54195)														
ICP Metals - Soil														
Lead	BRL	0.33	567	526	7.50	85.8	87.3	1.7	NC			75 - 125	30	
Comment: Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.														

m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

QA/QC Data

SDG I.D.: GCU54188

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD	-	Relative Percent Difference
LCS	-	Laboratory Control Sample
LCSD	-	Laboratory Control Sample Duplicate
MS	-	Matrix Spike
MS Dup	-	Matrix Spike Duplicate
NC	-	No Criteria
Intf	-	Interference
(ISO)	-	Isotope Dilution

Phyllis Shiller, Laboratory Director
November 03, 2025

Monday, November 03, 2025

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCU54188 - AES-INC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CU54188	TCLP-PB	TCLP Lead	EPA / 40 CFR 261.24 / Toxicity Characteristics	14.6	0.10	5	5	mg/L
CU54191	TCLP-PB	TCLP Lead	EPA / 40 CFR 261.24 / Toxicity Characteristics	8.81	0.10	5	5	mg/L
CU54196	TCLP-PB	TCLP Lead	EPA / 40 CFR 261.24 / Toxicity Characteristics	30.4	0.10	5	5	mg/L

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

November 03, 2025 SDG I.D.: GCU54188

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

November 03, 2025

SDG I.D.: GCU54188

The samples in this delivery group were received at 1.5°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Temp 1.5 Coolant: Cooler: Yes ☑ No ☐ IPK ☑ ICE ☐ No ☐

NY/NJ/PA CHAIN OF CUSTODY RECORD

Pg 1 of 2

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: Makrina Nolan, makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Contact Options:
☐ Phone:
☐ Fax:
☑ Email: empenderoust@aol.com

Customer: AES
Address: 42 West Ave. Patchogue, NY 11772

Project: SAND1048 - Sunset Park Project P.O: 0987
Report to: AES
Invoice to: AES
QUOTE # :

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 10.16.25

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	TCLP Lead	Total Lead	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml	PL NaOH 250ml	PL HNO_3 250ml	Bacteria Bottle w/hypo	Bacteria Bottle as is
54188	SB8 - D1	S	10.16.25			X	X			2									
54189	SB8 - D2																		
54190	SB8 - D4																		
54191	SB8 - D6																		
54192	SB11 - D10																		
54193	SB11 - D13																		
54194	SB11 - D14																		
54195	SB11 - D15																		

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	10/20/25	1030
[signature]	[signature]	10/20/25	17:57

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 4 Days*
☑ 5 Days*
☐ Standard
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ Impact to GW soil screen Criteria
☐ GW Criteria

NY
☐ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential Restricted Soil
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? NY

Comments, Special Requirements or Regulations:

***MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.**

Data Format:
☐ Phoenix Std Report ☐ EQuIS
☑ Excel ☐ NJ Hazsite EDD
☑ PDF ☐ NY EZ EDD (ASP)
☐ GIS/Key ☐ Other

Data Package:
☐ NJ Reduced Deliv. * ☐ Other
☐ NY Enhanced (ASP B) *

PEL-111 Rev 1/2025

Temp 1.5c Coolant: IPK ☒ ICE ☐ Cooler: Yes ☒ No ☐ No ☐

Pg 2 of 2

PHOENIX
Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: Makrina Nolan, makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Contact Options:
☐ Phone:
☐ Fax:
☑ Email: empendergast@aol.com

Customer: AES
Address: 42 west Avenue
Patchogue, NY 11772

Project: SANDI 048- Sunset Park Project P.O: 0987
Report to: AES
Invoice to: AES
QUOTE # :

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 10.16.25

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	TCLP Lead	Total Lead	GL Amber 8 oz [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml	PL NaOH 250ml	PL HNO_3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
54196	SB8-D8S*	S	10.16.25			X	X			1									
54197	SB8-D3*	↓	↓			↓	↓			↓									
54198	SB8-D7*																		
54199	SB8-D8*																		
54200	SB11-D9*																		
54201	SB11-D11*																		
54202	SB11-D12*																		
54203	SB11-D16*	↓	↓			↓	↓			↓									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	10/20/25	1030
[signature]	[signature]	10/20/25	17:57

Comments, Special Requirements or Regulations:
* Please hold samples til further notice

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

Data Format:
☐ Phoenix Std Report ☐ EQuIS
☐ Excel ☐ NJ Hazsite EDD
☐ PDF ☐ NY EZ EDD (ASP)
☐ GIS/Key ☐ Other

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*
☐ Standard
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ Impact to GW soil screen Criteria
☐ GW Criteria

Data Package:
☐ NJ Reduced Deliv. * ☐ Other
☐ NY Enhanced (ASP B) *

NY
☐ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential Restricted Soil
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? NY

PEL-111 Rev 1/2025

Sarah Bell

From: Eileen Pendergast <empendergast@aol.com>
Sent: Monday, October 27, 2025 9:11 AM
To: Sarah Bell
Subject: Fw: Phoenix Labs - GCU54188, SAND1048-SUNSET PARK - Report Ready

Good morning Sarah

Can you please analyze sample ID 54196 (SB8-D5) for total lead & TCLP lead?
This was put on hold when we submitted the samples.

Thanks,

Eileen
AES
42 West Avenue
Patchogue, NY 11772
(631) 475-0020

---- Forwarded Message ----
From: Reports@phoenixlabs.com <reports@phoenixlabs.com>
To: "empendergast@aol.com" <empendergast@aol.com>
Sent: Sunday, October 26, 2025 at 10:50:58 PM EDT
Subject: Phoenix Labs - GCU54188, SAND1048-SUNSET PARK - Report Ready

Delivery group GCU54188 (SAND1048-SUNSET PARK) for the following samples:

CU54188 - SB8-D1
CU54189 - SB8-D2
CU54190 - SB8-D4
CU54191 - SB8-D6
CU54192 - SB11-D10
CU54193 - SB11-D13
CU54194 - SB11-D14
CU54195 - SB11-D15

is available for review. Please click the following link to view report data.

www.PhoenixLabs.com

Note: The default password is your email address. You may change it after logging in.

Please take a moment to give us some feedback on your experience with Phoenix Environmental Laboratories, Inc. Your input is valuable to us!
www.phoenixlabs.com/CustomerSurvey

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.
cc'd:empendergast@aol.com;pendyenveng@optonline.net

Appendix E

Published Cleanup Criteria (Soil)

Department of Environmental Conservation

Division of Environmental Remediation

6 NYCRR PART 375

Environmental Remediation Programs

Subparts 375-1 to 375- 4 & 375-6

Effective December 14, 2006

New York State Department of Environmental Conservation

NYSDEC
Division of Environmental Remediation
- Statewide Contacts -

DEC Headquarters
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7011
(518) 402-9706

DEC Region 1
(Counties: Nassau, Suffolk)
SUNY Campus Building 40
Stony Brook, NY 11790
(631) 444-0240

DEC Region 2
(Counties: Bronx, Kings, New York, Queens, Richmond)
1 Hunter's Point Plaza
47-40 21st Street
Long Island City, NY 11101
(718) 482-4599

DEC Region 3
(Counties: Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester)
21 South Putt Corners Road
New Paltz, NY 12561
(845) 256-3146

DEC Region 4
(Counties: Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady, Schoharie)
1150 North Westcott Road
Schenectady, NY 12306
(518) 357-2045

DEC Region 5
(Counties: Clinton, Essex, Franklin, Hamilton)
Route 86, PO Box 296
Ray Brook, NY 12977
(518) 897-1242

DEC Region 6
(Counties: Herkimer, Jefferson, Lewis, Oneida, St. Lawrence)
317 Washington Street
Watertown, NY 13601
(315) 785-2513

DEC Region 7
(Counties: Broome, Cayuga, Chenango, Cortland, Madison, Onondaga, Oswego, Tioga, Tompkins)
615 Erie Boulevard West
Syracuse, NY 13204-2400
(315) 426-7550

DEC Region 8
(Counties: Chemung, Genesee, Livingston, Monroe, Ontario, Orleans, Schuyler, Seneca, Steuben, Wayne, Yates)
6274 East Avon-Lima Road
Avon, NY 14414-9519
(585) 226-5349

DEC Region 9
(Counties: Allegany, Cattaraugus, Chautauqua, Erie, Niagara, Wyoming)
270 Michigan Avenue
Buffalo, NY 14203-2999
(716) 851-7220

375-6.8 Soil cleanup objective tables.

(a) Unrestricted use soil cleanup objectives.

Table 375-6.8(a):Unrestricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Unrestricted Use
Metals		
Arsenic	7440-38-2	13 [c]
Barium	7440-39-3	350 [c]
Beryllium	7440-41-7	7.2
Cadmium	7440-43-9	2.5 [c]
Chromium, hexavalent [e]	18540-29-9	1[b]
Chromium, trivalent [e]	16065-83-1	30 [c]
Copper	7440-50-8	50
Total Cyanide [e, f]		27
Lead	7439-92-1	63 [c]
Manganese	7439-96-5	1600 [c]
Total Mercury		0.18 [c]
Nickel	7440-02-0	30
Selenium	7782-49-2	3.9[c]
Silver	7440-22-4	2
Zinc	7440-66-6	109 [c]
PCBs/Pesticides		
2,4,5-TP Acid (Silvex) [f]	93-72-1	3.8
4,4’-DDE	72-55-9	0.0033 [b]
4,4’-DDT	50-29-3	0.0033 [b]
4,4’-DDD	72-54-8	0.0033 [b]
Aldrin	309-00-2	0.005 [c]
alpha-BHC	319-84-6	0.02
beta-BHC	319-85-7	0.036
Chlordane (alpha)	5103-71-9	0.094

Table 375-6.8(a):Unrestricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Unrestricted Use
delta-BHC [g]	319-86-8	0.04
Dibenzofuran [f]	132-64-9	7
Dieldrin	60-57-1	0.005 [c]
Endosulfan I [d, f]	959-98-8	2.4
Endosulfan II [d, f]	33213-65-9	2.4
Endosulfan sulfate [d, f]	1031-07-8	2.4
Endrin	72-20-8	0.014
Heptachlor	76-44-8	0.042
Lindane	58-89-9	0.1
Polychlorinated biphenyls	1336-36-3	0.1
Semivolatile organic compounds		
Acenaphthene	83-32-9	20
Acenapthylene [f]	208-96-8	100 [a]
Anthracene [f]	120-12-7	100 [a]
Benz(a)anthracene [f]	56-55-3	1[c]
Benzo(a)pyrene	50-32-8	1[c]
Benzo(b)fluoranthene [f]	205-99-2	1[c]
Benzo(g,h,i)perylene [f]	191-24-2	100
Benzo(k)fluoranthene [f]	207-08-9	0.8 [c]
Chrysene [f]	218-01-9	1[c]
Dibenz(a,h)anthracene [f]	53-70-3	0.33 [b]
Fluoranthene [f]	206-44-0	100 [a]
Fluorene	86-73-7	30
Indeno(1,2,3-cd)pyrene [f]	193-39-5	0.5 [c]
m-Cresol [f]	108-39-4	0.33 [b]
Naphthalene [f]	91-20-3	12
o-Cresol [f]	95-48-7	0.33 [b]

Table 375-6.8(a):Unrestricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Unrestricted Use
p-Cresol [f]	106-44-5	0.33 [b]
Pentachlorophenol	87-86-5	0.8 [b]
Phenanthrene [f]	85-01-8	100
Phenol	108-95-2	0.33 [b]
Pyrene [f]	129-00-0	100
Volatile organic compounds		
1,1,1-Trichloroethane [f]	71-55-6	0.68
1,1-Dichloroethane [f]	75-34-3	0.27
1,1-Dichloroethene [f]	75-35-4	0.33
1,2-Dichlorobenzene [f]	95-50-1	1.1
1,2-Dichloroethane	107-06-2	0.02 [c]
cis -1,2-Dichloroethene [f]	156-59-2	0.25
trans-1,2-Dichloroethene [f]	156-60-5	0.19
1,3-Dichlorobenzene [f]	541-73-1	2.4
1,4-Dichlorobenzene	106-46-7	1.8
1,4-Dioxane	123-91-1	0.1 [b]
Acetone	67-64-1	0.05
Benzene	71-43-2	0.06
n-Butylbenzene [f]	104-51-8	12
Carbon tetrachloride [f]	56-23-5	0.76
Chlorobenzene	108-90-7	1.1
Chloroform	67-66-3	0.37
Ethylbenzene [f]	100-41-4	1
Hexachlorobenzene [f]	118-74-1	0.33[b]
Methyl ethyl ketone	78-93-3	0.12
Methyl tert-butyl ether [f]	1634-04-4	0.93
Methylene chloride	75-09-2	0.05

Table 375-6.8(a):Unrestricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Unrestricted Use
n - Propylbenzene [f]	103-65-1	3.9
sec-Butylbenzene [f]	135-98-8	11
tert-Butylbenzene [f]	98-06-6	5.9
Tetrachloroethene	127-18-4	1.3
Toluene	108-88-3	0.7
Trichloroethene	79-01-6	0.47
1,2,4-Trimethylbenzene [f]	95-63-6	3.6
1,3,5-Trimethylbenzene[f]	108-67-8	8.4
Vinyl chloride[f]	75-01-4	0.02
Xylene (mixed)	1330-20-7	0.26

All soil cleanup objectives (SCOs) are in parts per million (ppm).

Footnotes

[a] The SCOs for unrestricted use were capped at a maximum value of 100 ppm. See Technical Support Document (TSD), section 9.3.

[b] For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the Track 1 SCO value.

[c] For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 1 SCO value for this use of the site.

[d] SCO is the sum of endosulfan I, endosulfan II and endosulfan sulfate.

[e] The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

[f] Protection of ecological resources SCOs were not developed for contaminants identified in Table 375-6.8(b) with “NS”. Where such contaminants appear in Table 375-6.8(a), the applicant may be required by the Department to calculate a protection of ecological resources SCO according to the TSD.

(b) Restricted use soil cleanup objectives.

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
Metals							
Arsenic	7440-38-2	16[f]	16[f]	16[f]	16[f]	13[f]	16[f]
Barium	7440-39-3	350[f]	400	400	10,000 [d]	433	820
Beryllium	7440-41-7	14	72	590	2,700	10	47
Cadmium	7440-43-9	2.5[f]	4.3	9.3	60	4	7.5
Chromium, hexavalent [h]	18540-29-9	22	110	400	800	1[e]	19
Chromium, trivalent [h]	16065-83-1	36	180	1,500	6,800	41	NS
Copper	7440-50-8	270	270	270	10,000 [d]	50	1,720
Total Cyanide [h]		27	27	27	10,000 [d]	NS	40
Lead	7439-92-1	400	400	1,000	3,900	63[f]	450
Manganese	7439-96-5	2,000[f]	2,000[f]	10,000 [d]	10,000 [d]	1600[f]	2,000[f]
Total Mercury		0.81[j]	0.81[j]	2.8[j]	5.7[j]	0.18[f]	0.73
Nickel	7440-02-0	140	310	310	10,000 [d]	30	130
Selenium	7782-49-2	36	180	1,500	6,800	3.9[f]	4[f]
Silver	7440-22-4	36	180	1,500	6,800	2	8.3
Zinc	7440-66-6	2200	10,000 [d]	10,000 [d]	10,000 [d]	109[f]	2,480
PCBs/Pesticides							
2,4,5-TP Acid (Silvex)	93-72-1	58	100[a]	500[b]	1,000[c]	NS	3.8
4,4'-DDE	72-55-9	1.8	8.9	62	120	0.0033 [e]	17
4,4'-DDT	50-29-3	1.7	7.9	47	94	0.0033 [e]	136
4,4'- DDD	72-54-8	2.6	13	92	180	0.0033 [e]	14
Aldrin	309-00-2	0.019	0.097	0.68	1.4	0.14	0.19
alpha-BHC	319-84-6	0.097	0.48	3.4	6.8	0.04[g]	0.02
beta-BHC	319-85-7	0.072	0.36	3	14	0.6	0.09
Chlordane (alpha)	5103-71-9	0.91	4.2	24	47	1.3	2.9

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
delta-BHC	319-86-8	100[a]	100[a]	500[b]	1,000[c]	0.04[g]	0.25
Dibenzofuran	132-64-9	14	59	350	1,000[c]	NS	210
Dieldrin	60-57-1	0.039	0.2	1.4	2.8	0.006	0.1
Endosulfan I	959-98-8	4.8[i]	24[i]	200[i]	920[i]	NS	102
Endosulfan II	33213-65-9	4.8[i]	24[i]	200[i]	920[i]	NS	102
Endosulfan sulfate	1031-07-8	4.8[i]	24[i]	200[i]	920[i]	NS	1,000[c]
Endrin	72-20-8	2.2	11	89	410	0.014	0.06
Heptachlor	76-44-8	0.42	2.1	15	29	0.14	0.38
Lindane	58-89-9	0.28	1.3	9.2	23	6	0.1
Polychlorinated biphenyls	1336-36-3	1	1	1	25	1	3.2
Semivolatiles							
Acenaphthene	83-32-9	100[a]	100[a]	500[b]	1,000[c]	20	98
Acenapthylene	208-96-8	100[a]	100[a]	500[b]	1,000[c]	NS	107
Anthracene	120-12-7	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Benz(a)anthracene	56-55-3	1[f]	1[f]	5.6	11	NS	1[f]
Benzo(a)pyrene	50-32-8	1[f]	1[f]	1[f]	1.1	2.6	22
Benzo(b)fluoranthene	205-99-2	1[f]	1[f]	5.6	11	NS	1.7
Benzo(g,h,i)perylene	191-24-2	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Benzo(k)fluoranthene	207-08-9	1	3.9	56	110	NS	1.7
Chrysene	218-01-9	1[f]	3.9	56	110	NS	1[f]
Dibenz(a,h)anthracene	53-70-3	0.33[e]	0.33[e]	0.56	1.1	NS	1,000[c]
Fluoranthene	206-44-0	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Fluorene	86-73-7	100[a]	100[a]	500[b]	1,000[c]	30	386
Indeno(1,2,3-cd)pyrene	193-39-5	0.5[f]	0.5[f]	5.6	11	NS	8.2
m-Cresol	108-39-4	100[a]	100[a]	500[b]	1,000[c]	NS	0.33[e]
Naphthalene	91-20-3	100[a]	100[a]	500[b]	1,000[c]	NS	12

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
o-Cresol	95-48-7	100[a]	100[a]	500[b]	1,000[c]	NS	0.33[e]
p-Cresol	106-44-5	34	100[a]	500[b]	1,000[c]	NS	0.33[e]
Pentachlorophenol	87-86-5	2.4	6.7	6.7	55	0.8[e]	0.8[e]
Phenanthrene	85-01-8	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Phenol	108-95-2	100[a]	100[a]	500[b]	1,000[c]	30	0.33[e]
Pyrene	129-00-0	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Volatiles							
1,1,1-Trichloroethane	71-55-6	100[a]	100[a]	500[b]	1,000[c]	NS	0.68
1,1-Dichloroethane	75-34-3	19	26	240	480	NS	0.27
1,1-Dichloroethene	75-35-4	100[a]	100[a]	500[b]	1,000[c]	NS	0.33
1,2-Dichlorobenzene	95-50-1	100[a]	100[a]	500[b]	1,000[c]	NS	1.1
1,2-Dichloroethane	107-06-2	2.3	3.1	30	60	10	0.02[f]
cis-1,2-Dichloroethene	156-59-2	59	100[a]	500[b]	1,000[c]	NS	0.25
trans-1,2-Dichloroethene	156-60-5	100[a]	100[a]	500[b]	1,000[c]	NS	0.19
1,3-Dichlorobenzene	541-73-1	17	49	280	560	NS	2.4
1,4-Dichlorobenzene	106-46-7	9.8	13	130	250	20	1.8
1,4-Dioxane	123-91-1	9.8	13	130	250	0.1[e]	0.1[e]
Acetone	67-64-1	100[a]	100[b]	500[b]	1,000[c]	2.2	0.05
Benzene	71-43-2	2.9	4.8	44	89	70	0.06
Butylbenzene	104-51-8	100[a]	100[a]	500[b]	1,000[c]	NS	12
Carbon tetrachloride	56-23-5	1.4	2.4	22	44	NS	0.76
Chlorobenzene	108-90-7	100[a]	100[a]	500[b]	1,000[c]	40	1.1
Chloroform	67-66-3	10	49	350	700	12	0.37
Ethylbenzene	100-41-4	30	41	390	780	NS	1
Hexachlorobenzene	118-74-1	0.33[e]	1.2	6	12	NS	3.2
Methyl ethyl ketone	78-93-3	100[a]	100[a]	500[b]	1,000[c]	100[a]	0.12

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
Methyl tert-butyl ether	1634-04-4	62	100[a]	500[b]	1,000[c]	NS	0.93
Methylene chloride	75-09-2	51	100[a]	500[b]	1,000[c]	12	0.05
n-Propylbenzene	103-65-1	100[a]	100[a]	500[b]	1,000[c]	NS	3.9
sec-Butylbenzene	135-98-8	100[a]	100[a]	500[b]	1,000[c]	NS	11
tert-Butylbenzene	98-06-6	100[a]	100[a]	500[b]	1,000[c]	NS	5.9
Tetrachloroethene	127-18-4	5.5	19	150	300	2	1.3
Toluene	108-88-3	100[a]	100[a]	500[b]	1,000[c]	36	0.7
Trichloroethene	79-01-6	10	21	200	400	2	0.47
1,2,4-Trimethylbenzene	95-63-6	47	52	190	380	NS	3.6
1,3,5- Trimethylbenzene	108-67-8	47	52	190	380	NS	8.4
Vinyl chloride	75-01-4	0.21	0.9	13	27	NS	0.02
Xylene (mixed)	1330-20-7	100[a]	100[a]	500[b]	1,000[c]	0.26	1.6

All soil cleanup objectives (SCOs) are in parts per million (ppm).
NS=Not specified. See Technical Support Document (TSD).

Footnotes

[a] The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

[b] The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.

[c] The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm. See TSD section 9.3.

[d] The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.

[e] For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

[f] For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.

[g] This SCO is derived from data on mixed isomers of BHC.

[h] The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

[i] This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

[j] This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts). See TSD Table 5.6-1.

375-6.9 Development or modification of soil cleanup objectives.

(a) Applicability. This section identifies when and the procedures under which a contaminant-specific soil cleanup objective may be developed or modified.

(1) Soil cleanup objectives for contaminants not included in Tables 375-6.8(a) and (b) may be developed by the remedial party or required by the Department.

(2) Soil cleanup objectives for contaminants included in Tables 375-6.8(a) and (b), may be modified based on site-specific data if desired by the remedial party; as set forth in:

(i) subpart 375-3 for Tracks 3 or 4, as set forth in paragraphs 375-3.8(e)(3) or (4), respectively; or

(ii) subparts 375-2 and 375-4, as set forth in subparagraph 375-2.8(b)(1)(iii) and subparagraph 375-4.8(c)(1)(iii).

(3) Protection of ecological resources soil cleanup objectives were not developed for certain contaminants, which are identified in Table 375-6.8(b) as "NS". Where such contaminants:

(i) appear in Table 375-6.8(a), the applicant may be required by the Department to calculate a protection of ecological resources soil cleanup objective for the contaminant for use in Track 1 and apply such soil cleanup objective where it is lower than the soil cleanup objective set forth in Table 375-6.8(a); or

(ii) are identified as impacting or threatening an ecological resource for a restricted use remedial program the Department may require a protection of ecological resources soil cleanup objective be developed.

(b) New soil cleanup objectives must:

(1) Be developed utilizing the same methodologies that were used by the Department to develop the respective soil cleanup objective, as provided in the Technical Support Document.

(2) Apply the following caps, as set forth in section 9.3 of the Technical Support Document, on any soil cleanup objective included in Tables 375-6.8(a) and (b), with the exception of metals, as set forth in paragraph (3) below, developed for:

(i) unrestricted use, residential use, restricted-residential use and the protection of ecological resources, a maximum value of 100 ppm;

(ii) commercial use, a maximum value of 500 ppm; and

(iii) industrial use and the protection of groundwater a maximum value of 1000 ppm, and

(3) Apply a cap for metals at a maximum value of 10,000 ppm.

(c) Development of unrestricted use soil cleanup objectives. The unrestricted use soil cleanup objective for a compound will be the lowest of the soil cleanup values, calculated as set forth in appendix E of the Technical Support Document, for the protection of groundwater, protection of ecological resources and protection of public health.

(d) Development of restricted use soil cleanup objectives. The protection of:

(1) Groundwater soil cleanup objective will be the values calculated for the protection of groundwater as set forth in appendix E of the Technical Support Document;

(2) Ecological resources soil cleanup objectives will be the values calculated for the protection of ecological resources as set forth in appendix E of the Technical Support Document; and

(3) Public health cleanup objective will be the values calculated for the protection of public health for the identified use of the site, as set forth in appendix E of the Technical Support Document.

(e) Modification of soil cleanup objectives. The contaminant-specific soil cleanup objectives set forth at Tables 675-6.8(a) and (b)[1] may be modified by site specific data as set forth in this subdivision.

[1] Original should read "Tables 375-6.8(a) and (b)"

(1) Contaminant-specific soil cleanup objectives modified in accordance with this subdivision may be utilized by the remedial party for a site remedial program undertaken pursuant to:

(i) subpart 375-3 in Tracks 3 or 4, as set forth in paragraphs 375-3.8(e)(3) or (4), respectively; or

(ii) subparts 375-2 and 375-4, as set forth in subparagraph 375-2.8(b)(1)(ii) and subparagraph 375-4.8(c)(1)(ii).

(2) For the calculation of a protection of groundwater or ecological resources contaminant -specific soil cleanup objective, the site-specific percentage of total organic carbon in the soil at the site may be substituted in the algorithms provided in appendix E of the Technical Support Document.

(3) For the calculation of a protection of public health contaminant-specific soil cleanup objective, site-specific data may be used to modify two of the five exposure pathways, as follows:

(i) for the particulate inhalation pathway six parameters rely on site-specific data; and

(ii) for the volatile inhalation pathway, four parameters rely on site-specific data.

(4) The algorithms to be used for each protection of public health pathway and details on the parameters which can be substituted are included in appendix E of the Technical Support Document.

(f) Use of soil cleanup objectives developed or modified. Once approved by the Department, contaminant-specific soil cleanup objectives developed or modified as set forth in this section may be utilized by the Department at other sites consistent with paragraphs (1) and (2) below.

(1) Contaminant-specific soil cleanup objectives developed for contaminants not included in Tables 375-6.8(a) and (b), as set forth in subdivision 375-6.9(b) above, will be used as guidance and shall be considered by the Department for inclusion in the Tables in this subpart during any subsequent reevaluation of the soil cleanup objectives, as set forth by ECL 27-1415.

(2) Contaminant-specific soil cleanup objectives modified for site specific parameters, as set forth in subdivision 375-6.9(e) above, may be utilized at sites manifesting similar parameters, if approved by the Department.