



Haley & Aldrich of New York  
237 West 35<sup>th</sup> Street  
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New York, NY 10018  
Tel: 646.518.7735

27 June 2023  
File No. 0202156

Attention: Jolene Lozewski  
New York State Department of Environmental Conservation  
Remedial Section A  
625 Broadway  
Albany, New York 12233

Subject: Effluent Discharge Sampling Results Summary Letter  
Former Carter Spray Finishing Site  
NYSDEC BCP Site C224218  
65 Eckford Street, Brooklyn, New York

Dear Ms. Lozewski:

Haley & Aldrich of New York (Haley & Aldrich) is providing this letter summarizing the results of the effluent discharge sampling event completed by Haley & Aldrich on 12 June 2023 for the Former Carter Spraying Finishing Site (Brownfield Cleanup Program [BCP] Site C224218) located at 65-73 Eckford Street, Brooklyn, New York (the Site). The purpose of this sampling event was to provide effluent discharge data post-treatment prior to the re-commencement of discharge in conjunction with excavation and remediation of the Site.

On 12 June 2023, a groundwater sample was collected from the effluent of the granulated activated carbon (GAC) units at the Site. The groundwater sample was collected in laboratory provided containers and analyzed for the New York City Department of Environmental Protection (NYCDEP) Table A Parameters for discharge. Groundwater sample analytical data is summarized in Table 1.

## RESULTS

The groundwater sample results conformed to the parameters listed in the NYCDEP Table A parameters for discharge as shown in Table 1. The laboratory analytical report is provided in Attachment A. Haley & Aldrich will continue to collect groundwater samples pre (influent) and post treatment (effluent) on a monthly basis from the dewatering system for the duration of dewatering activities. Future sampling and analytical data will be presented and summarized in the monthly status update reports.

Should you have any questions or need additional information, please do not hesitate to contact us.

Sincerely yours,  
**HALEY & ALDRICH OF NEW YORK**



Mari Cate Conlon, P.G.  
Associate



Zachary Simmel  
Senior Engineer

C: Bob Corcoran, NYSDEC (bob.corcoran@dec.ny.gov)  
Arunesh Ghosh, NYSDOH (Arunesh.Ghosh@health.ny.gov)  
Abraham Posner, 65-73 Eckford Realty LLC (abe6991@gmail.com)  
Isaac Sofer, Prestige Construction (isaac@prestigenyllc.com)

Attachments

Table 1 – Effluent Discharge Summary of Water Quality Data  
Attachment A – Laboratory Analytical Report

**TABLE I**  
**Effluent Discharge Summary of Water Quality Data**

TABLE I  
SUMMARY OF EFFLUENT DISCHARGE DATA  
65-73 ECKFORD STREET  
BROOKLYN, NY  
FILE NO. 0202156

Sample Name			65 ECKFORD-EFFLUENT-20230612	
Sampling Date			6/12/2023	
Lab Sample ID			L2332960-01	
Sample Type			GROUNDWATER	
	NYCDEP SEWER DISCHARGE	Units	Results	Qual
<b>General Chemistry</b>				
CBOD, 5 day	NA	mg/l	2	U
Chloride	NA	mg/l	190	
Chromium, Hexavalent	5	mg/l	0.05	U
Flash Point	NA	deg F	>150	
Nitrogen, Nitrate/Nitrite	NA	mg/l	0.87	
Nitrogen, Total Kjeldahl	NA	mg/l	11.5	
Non-Polar Material By EPA 1664	NA	mg/l	1.89	J
pH (H)	NA	SU	7.13	
Solids, Total	NA	mg/l	1100	
Solids, Total Suspended	350	mg/l	11	
Total Nitrogen	NA	mg/l	12	
<b>Polychlorinated Biphenyls by GC</b>				
Aroclor 1016	0.001	mg/l	0.00005	U
Aroclor 1221	0.001	mg/l	0.00005	U
Aroclor 1232	0.001	mg/l	0.00005	U
Aroclor 1242	0.001	mg/l	0.00005	U
Aroclor 1248	0.001	mg/l	0.00005	U
Aroclor 1254	0.001	mg/l	0.00005	U
Aroclor 1260	0.001	mg/l	0.00005	U
PCBs, Total	1	mg/l	0.00005	U
<b>Semivolatile Organics by GC/MS</b>				
1,2,4-Trichlorobenzene	NA	mg/l	0.005	U
Naphthalene	0.047	mg/l	0.002	U
Phenol	NA	mg/l	0.005	U
<b>Total Metals</b>				
Cadmium, Total	2	mg/l	0.005	U
Copper, Total	5	mg/l	0.011	
Lead, Total	2	mg/l	0.0035	J
Mercury, Total	0.05	mg/l	0.0002	U
Nickel, Total	3	mg/l	0.0104	J
Zinc, Total	5	mg/l	0.0295	
<b>Volatile Organics by GC/MS</b>				
1,1,1-Trichloroethane	NA	mg/l	0.002	U
1,4-Dichlorobenzene	NA	mg/l	0.005	U
Benzene	0.134	mg/l	0.001	U
Carbon tetrachloride	NA	mg/l	0.001	U
Chloroform	NA	mg/l	0.001	U
Ethylbenzene	0.38	mg/l	0.001	U
Methyl tert butyl Ether	0.05	mg/l	0.01	U
o-Xylene	NA	mg/l	0.001	U
p/m-Xylene	NA	mg/l	0.002	U
Tetrachloroethene	0.02	mg/l	0.001	U
Toluene	0.074	mg/l	0.001	U
Xylenes, Total	0.074	mg/l	0.001	U
<b>ABBREVIATIONS AND NOTES:</b>				
mg/L: milligrams per liter				
U: Not detected at the reported detection limit for the sample				
J: Estimated concentration				
NA: No applicable standard				
CBOD: Carbonaceous Biochemical Oxygen Demand				
Water analytical results are compared to the NYCDEP Table A Parameters for Discharge				

**ATTACHMENT A**  
**Analytical Laboratory Report**



## ANALYTICAL REPORT

Lab Number:	L2332960
Client:	Haley & Aldrich 237 West 35th Street 16th Floor New York, NY 10123
ATTN:	Mari Cate Conlon
Phone:	(347) 271-1521
Project Name:	65 ECKFORD ST
Project Number:	0202156
Report Date:	06/27/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2332960-01	65 ECKFORD-EFFLUENT- 20230612	WATER	65 ECKFORD ST, BROOKLYN, NY	06/12/23 09:30	06/12/23
L2332960-02	TRIP BLANK	WATER	65 ECKFORD ST, BROOKLYN, NY	06/12/23 00:00	06/12/23

**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

**HOLD POLICY** - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

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**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

### Case Narrative (continued)

#### Report Revision

June 27, 2023: The Client ID was amended on L2332960-01.

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

L2332960-02: Headspace was noted in the sample containers submitted for Volatile Organics - EPA 624.1 NY DEP List. The analysis was performed at the client's request.

#### Hexavalent Chromium

L2332960-01: The sample has an elevated detection limit due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 06/27/23

# ORGANICS

# VOLATILES

**Project Name:** 65 ECKFORD ST**Lab Number:** L2332960**Project Number:** 0202156**Report Date:** 06/27/23**SAMPLE RESULTS**

Lab ID: L2332960-01  
 Client ID: 65 ECKFORD-EFFLUENT-20230612  
 Sample Location: 65 ECKFORD ST, BROOKLYN, NY

Date Collected: 06/12/23 09:30  
 Date Received: 06/12/23  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 128,624.1  
 Analytical Date: 06/13/23 16:02  
 Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Chloroform	ND		ug/l	1.0	0.38	1
Carbon tetrachloride	ND		ug/l	1.0	0.24	1
Tetrachloroethene	ND		ug/l	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29	1
Benzene	ND		ug/l	1.0	0.38	1
Toluene	ND		ug/l	1.0	0.31	1
Ethylbenzene	ND		ug/l	1.0	0.28	1
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29	1
p/m-Xylene	ND		ug/l	2.0	0.30	1
o-Xylene	ND		ug/l	1.0	0.34	1
Xylenes, Total	ND		ug/l	1.0	0.30	1
Methyl tert butyl Ether	ND		ug/l	10	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	98		60-140
Fluorobenzene	103		60-140
4-Bromofluorobenzene	89		60-140

**Project Name:** 65 ECKFORD ST**Lab Number:** L2332960**Project Number:** 0202156**Report Date:** 06/27/23**SAMPLE RESULTS**

Lab ID: L2332960-02  
 Client ID: TRIP BLANK  
 Sample Location: 65 ECKFORD ST, BROOKLYN, NY

Date Collected: 06/12/23 00:00  
 Date Received: 06/12/23  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 128,624.1  
 Analytical Date: 06/13/23 13:08  
 Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Chloroform	ND		ug/l	1.0	0.38	1
Carbon tetrachloride	ND		ug/l	1.0	0.24	1
Tetrachloroethene	ND		ug/l	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29	1
Benzene	ND		ug/l	1.0	0.38	1
Toluene	ND		ug/l	1.0	0.31	1
Ethylbenzene	ND		ug/l	1.0	0.28	1
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29	1
p/m-Xylene	ND		ug/l	2.0	0.30	1
o-Xylene	ND		ug/l	1.0	0.34	1
Xylenes, Total	ND		ug/l	1.0	0.30	1
Methyl tert butyl Ether	ND		ug/l	10	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	100		60-140
Fluorobenzene	103		60-140
4-Bromofluorobenzene	92		60-140

**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 128,624.1  
Analytical Date: 06/13/23 12:31  
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1791331-4					
Chloroform	ND		ug/l	1.0	0.38
Carbon tetrachloride	ND		ug/l	1.0	0.24
Tetrachloroethene	ND		ug/l	1.0	0.26
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29
Benzene	ND		ug/l	1.0	0.38
Toluene	ND		ug/l	1.0	0.31
Ethylbenzene	ND		ug/l	1.0	0.28
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29
p/m-Xylene	ND		ug/l	2.0	0.30
o-Xylene	ND		ug/l	1.0	0.34
Xylenes, Total	ND		ug/l	1.0	0.30
Methyl tert butyl Ether	ND		ug/l	10	0.19

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	98		60-140
Fluorobenzene	101		60-140
4-Bromofluorobenzene	89		60-140

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1791331-3								
Chloroform	100		-		70-135	-		54
Carbon tetrachloride	120		-		70-130	-		41
Tetrachloroethene	105		-		70-130	-		39
1,1,1-Trichloroethane	110		-		70-130	-		36
Benzene	105		-		65-135	-		61
Toluene	95		-		70-130	-		41
Ethylbenzene	95		-		60-140	-		63
1,4-Dichlorobenzene	80		-		65-135	-		57
p/m-Xylene	88		-		60-140	-		30
o-Xylene	80		-		60-140	-		30
Methyl tert butyl Ether	75		-		60-140	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	102				60-140
Fluorobenzene	106				60-140
4-Bromofluorobenzene	89				60-140

# SEMIVOLATILES

**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

**SAMPLE RESULTS**

Lab ID: L2332960-01  
 Client ID: 65 ECKFORD-EFFLUENT-20230612  
 Sample Location: 65 ECKFORD ST, BROOKLYN, NY

Date Collected: 06/12/23 09:30  
 Date Received: 06/12/23  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 129,625.1  
 Analytical Date: 06/20/23 10:42  
 Analyst: SZ

Extraction Method: EPA 625.1  
 Extraction Date: 06/19/23 18:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
1,2,4-Trichlorobenzene	ND		ug/l	5.00	1.49	1
Naphthalene	ND		ug/l	2.00	0.896	1
Phenol	ND		ug/l	5.00	0.262	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		25-87
Phenol-d6	24		16-65
Nitrobenzene-d5	61		42-122
2-Fluorobiphenyl	66		46-121
2,4,6-Tribromophenol	74		45-128
4-Terphenyl-d14	77		47-138

**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 129,625.1  
Analytical Date: 06/20/23 10:16  
Analyst: SZ

Extraction Method: EPA 625.1  
Extraction Date: 06/19/23 18:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1793378-1					
1,2,4-Trichlorobenzene	ND		ug/l	5.00	1.49
Naphthalene	ND		ug/l	2.00	0.896
Phenol	ND		ug/l	5.00	0.262

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		25-87
Phenol-d6	29		16-65
Nitrobenzene-d5	68		42-122
2-Fluorobiphenyl	72		46-121
2,4,6-Tribromophenol	75		45-128
4-Terphenyl-d14	80		47-138

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 65 ECKFORD ST

Project Number: 0202156

Lab Number: L2332960

Report Date: 06/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1793378-3								
1,2,4-Trichlorobenzene	57		-		57-130	-		50
Naphthalene	62		-		36-120	-		65
Phenol	30		-		17-120	-		64

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	45				25-87
Phenol-d6	29				16-65
Nitrobenzene-d5	64				42-122
2-Fluorobiphenyl	67				46-121
2,4,6-Tribromophenol	73				45-128
4-Terphenyl-d14	72				47-138

# PCBS

**Project Name:** 65 ECKFORD ST**Lab Number:** L2332960**Project Number:** 0202156**Report Date:** 06/27/23**SAMPLE RESULTS**

Lab ID: L2332960-01  
 Client ID: 65 ECKFORD-EFFLUENT-20230612  
 Sample Location: 65 ECKFORD ST, BROOKLYN, NY

Date Collected: 06/12/23 09:30  
 Date Received: 06/12/23  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 127,608.3  
 Analytical Date: 06/16/23 08:26  
 Analyst: ER

Extraction Method: EPA 608.3  
 Extraction Date: 06/15/23 12:05  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 06/16/23  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/16/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/l	0.050	0.008	1	A
Aroclor 1221	ND		ug/l	0.050	0.011	1	A
Aroclor 1232	ND		ug/l	0.050	0.023	1	A
Aroclor 1242	ND		ug/l	0.050	0.018	1	A
Aroclor 1248	ND		ug/l	0.050	0.023	1	A
Aroclor 1254	ND		ug/l	0.050	0.008	1	A
Aroclor 1260	ND		ug/l	0.050	0.017	1	A
PCBs, Total	ND		ug/l	0.050	0.008	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		37-123	A
Decachlorobiphenyl	62		38-114	A
2,4,5,6-Tetrachloro-m-xylene	66		37-123	B
Decachlorobiphenyl	62		38-114	B

**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 127,608.3  
Analytical Date: 06/14/23 21:11  
Analyst: ER

Extraction Method: EPA 608.3  
Extraction Date: 06/14/23 13:29  
Cleanup Method: EPA 3665A  
Cleanup Date: 06/14/23  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1791296-1						
Aroclor 1016	ND		ug/l	0.050	0.008	A
Aroclor 1221	ND		ug/l	0.050	0.011	A
Aroclor 1232	ND		ug/l	0.050	0.023	A
Aroclor 1242	ND		ug/l	0.050	0.018	A
Aroclor 1248	ND		ug/l	0.050	0.023	A
Aroclor 1254	ND		ug/l	0.050	0.008	A
Aroclor 1260	ND		ug/l	0.050	0.017	A
PCBs, Total	ND		ug/l	0.050	0.008	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		37-123	A
Decachlorobiphenyl	63		38-114	A
2,4,5,6-Tetrachloro-m-xylene	63		37-123	B
Decachlorobiphenyl	63		38-114	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1791296-2									
Aroclor 1016	69		-		50-140	-		36	A
Aroclor 1260	64		-		8-140	-		38	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70				37-123	A
Decachlorobiphenyl	66				38-114	A
2,4,5,6-Tetrachloro-m-xylene	63				37-123	B
Decachlorobiphenyl	67				38-114	B

## METALS

Project Name: 65 ECKFORD ST

Lab Number: L2332960

Project Number: 0202156

Report Date: 06/27/23

## SAMPLE RESULTS

Lab ID: L2332960-01

Date Collected: 06/12/23 09:30

Client ID: 65 ECKFORD-EFFLUENT-20230612

Date Received: 06/12/23

Sample Location: 65 ECKFORD ST, BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	06/15/23 02:00	06/19/23 17:28	EPA 3005A	19,200.7	AMW
Copper, Total	0.0110		mg/l	0.0100	0.0022	1	06/15/23 02:00	06/19/23 17:28	EPA 3005A	19,200.7	AMW
Lead, Total	0.0035	J	mg/l	0.0100	0.0027	1	06/15/23 02:00	06/19/23 17:28	EPA 3005A	19,200.7	AMW
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/15/23 03:30	06/16/23 13:04	EPA 245.1	3,245.1	DMB
Nickel, Total	0.0104	J	mg/l	0.0250	0.0024	1	06/15/23 02:00	06/19/23 17:28	EPA 3005A	19,200.7	AMW
Zinc, Total	0.0295		mg/l	0.0050	0.0021	1	06/15/23 02:00	06/19/23 17:28	EPA 3005A	19,200.7	AMW



**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1790839-1										
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	06/15/23 02:00	06/18/23 11:31	19,200.7	DHL
Copper, Total	ND		mg/l	0.0100	0.0022	1	06/15/23 02:00	06/18/23 11:31	19,200.7	DHL
Lead, Total	ND		mg/l	0.0100	0.0027	1	06/15/23 02:00	06/18/23 11:31	19,200.7	DHL
Nickel, Total	0.0041	J	mg/l	0.0250	0.0024	1	06/15/23 02:00	06/18/23 11:31	19,200.7	DHL
Zinc, Total	ND		mg/l	0.0050	0.0021	1	06/15/23 02:00	06/18/23 11:31	19,200.7	DHL

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1790844-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/15/23 03:30	06/15/23 14:33	3,245.1	DMB

### Prep Information

Digestion Method: EPA 245.1

## Lab Control Sample Analysis

Batch Quality Control

Project Name: 65 ECKFORD ST

Lab Number: L2332960

Project Number: 0202156

Report Date: 06/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1790839-2								
Cadmium, Total	100		-		85-115	-		
Copper, Total	100		-		85-115	-		
Lead, Total	105		-		85-115	-		
Nickel, Total	97		-		85-115	-		
Zinc, Total	92		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1790844-2								
Mercury, Total	100		-		85-115	-		

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01    QC Batch ID: WG1790839-3    QC Sample: L2330985-01    Client ID: MS Sample												
Cadmium, Total	ND	0.053	0.0539	102	-	-	-	-	75-125	-	-	20
Copper, Total	ND	0.25	0.263	105	-	-	-	-	75-125	-	-	20
Lead, Total	ND	0.53	0.558	105	-	-	-	-	75-125	-	-	20
Nickel, Total	0.003J	0.5	0.494	99	-	-	-	-	75-125	-	-	20
Zinc, Total	ND	0.5	0.466	93	-	-	-	-	75-125	-	-	20
Total Metals - Mansfield Lab Associated sample(s): 01    QC Batch ID: WG1790839-7    QC Sample: L2330985-02    Client ID: MS Sample												
Cadmium, Total	ND	0.053	0.0573	108	-	-	-	-	75-125	-	-	20
Copper, Total	0.004J	0.25	0.282	113	-	-	-	-	75-125	-	-	20
Lead, Total	0.003J	0.53	0.580	109	-	-	-	-	75-125	-	-	20
Nickel, Total	0.003J	0.5	0.524	105	-	-	-	-	75-125	-	-	20
Zinc, Total	0.011	0.5	0.531	104	-	-	-	-	75-125	-	-	20
Total Metals - Mansfield Lab Associated sample(s): 01    QC Batch ID: WG1790844-3    QC Sample: L2332391-01    Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00516	103	-	-	-	-	70-130	-	-	20
Total Metals - Mansfield Lab Associated sample(s): 01    QC Batch ID: WG1790844-5    QC Sample: L2332391-01    Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00490	98	-	-	-	-	70-130	-	-	20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 65 ECKFORD ST

Project Number: 0202156

Lab Number: L2332960

Report Date: 06/27/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1790844-4 QC Sample: L2332391-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1790844-6 QC Sample: L2333239-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

**SAMPLE RESULTS**

**Lab ID:** L2332960-01  
**Client ID:** 65 ECKFORD-EFFLUENT-20230612  
**Sample Location:** 65 ECKFORD ST, BROOKLYN, NY

**Date Collected:** 06/12/23 09:30  
**Date Received:** 06/12/23  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	1100		mg/l	13	NA	1.3	-	06/14/23 04:04	121,2540B	DEW
Solids, Total Suspended	11.		mg/l	6.5	NA	1.3	-	06/13/23 10:14	121,2540D	NGS
Chloride	190		mg/l	10	8.9	10	-	06/15/23 21:41	121,4500CL-E	TLH
pH (H)	7.13		SU	-	NA	1	-	06/15/23 21:58	121,4500H+-B	AAS
Nitrogen, Nitrate/Nitrite	0.87		mg/l	0.10	0.046	1	-	06/15/23 05:51	44,353.2	KAF
Total Nitrogen	12.		mg/l	0.30	0.30	1	-	06/19/23 18:30	107,-	MRM
Nitrogen, Total Kjeldahl	11.5		mg/l	0.300	0.066	1	06/18/23 21:10	06/19/23 09:34	121,4500NH3-H	KEP
CBOD, 5 day	ND		mg/l	2.0	NA	1	06/13/23 11:45	06/18/23 13:08	121,5210B	MKT
Non-Polar Material By EPA 1664	1.89	J	mg/l	4.00	1.24	1	06/15/23 14:28	06/15/23 18:00	140,1664B	JGM
Flash Point	>150		deg F	70	NA	1	-	06/15/23 23:10	1,1010A	MRM
Chromium, Hexavalent	ND		mg/l	0.050	0.015	5	06/13/23 05:30	06/13/23 06:48	121,3500CR-B	OCF



**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1790411-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	06/13/23 05:30	06/13/23 05:59	121,3500CR-B	OCF
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1790618-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	06/13/23 10:14	121,2540D	NGS
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1790661-1										
CBOD, 5 day	ND		mg/l	2.0	NA	1	06/13/23 11:45	06/18/23 13:08	121,5210B	MKT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1790946-1										
Solids, Total	ND		mg/l	10	NA	1	-	06/14/23 04:04	121,2540B	DEW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1791391-1										
Chloride	ND		mg/l	1.0	0.89	1	-	06/15/23 20:55	121,4500CL-E	TLH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1791475-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	06/15/23 03:03	44,353.2	KAF
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1791761-1										
Non-Polar Material By EPA 1664	1.80	J	mg/l	4.00	1.24	1	06/15/23 14:28	06/15/23 17:51	140,1664B	JGM
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1792754-1										
Nitrogen, Total Kjeldahl	0.093	J	mg/l	0.300	0.022	1	06/18/23 21:10	06/19/23 09:01	121,4500NH3-H	KEP

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 65 ECKFORD ST

Project Number: 0202156

Lab Number: L2332960

Report Date: 06/27/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1790411-2								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1790618-2								
Solids, Total Suspended	96		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1790661-2								
CBOD, 5 day	86		-		41-119	-		49
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1790946-2								
Solids, Total	106		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1791391-2								
Chloride	97		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1791475-2								
Nitrogen, Nitrate/Nitrite	94		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1791761-2								
Non-Polar Material By EPA 1664	112		-		64-132	-		34

## Lab Control Sample Analysis

Batch Quality Control

Project Name: 65 ECKFORD ST

Project Number: 0202156

Lab Number: L2332960

Report Date: 06/27/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1791956-1					
pH	100	-	99-101	-	5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1791973-1					
Flash Point	101	-	96-104	-	
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1792754-2					
Nitrogen, Total Kjeldahl	96	-	78-122	-	

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1790411-4 QC Sample: L2332960-01 Client ID: 65 ECKFORD-EFFLUENT-20230612												
Chromium, Hexavalent	ND	0.5	0.470	94	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1790661-4 QC Sample: L2332960-01 Client ID: 65 ECKFORD-EFFLUENT-20230612												
CBOD, 5 day	ND	100	97	97	-	-	-	-	36-125	-	-	49
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1791391-4 QC Sample: L2331499-01 Client ID: MS Sample												
Chloride	37.	20	55	90	-	-	-	-	58-140	-	-	7
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1791475-4 QC Sample: L2332960-01 Client ID: 65 ECKFORD-EFFLUENT-20230612												
Nitrogen, Nitrate/Nitrite	0.87	4	4.7	96	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1791761-4 QC Sample: L2329286-66 Client ID: MS Sample												
Non-Polar Material By EPA 1664	ND	20	18.8	94	-	-	-	-	64-132	-	-	34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1792754-4 QC Sample: L2331303-03 Client ID: MS Sample												
Nitrogen, Total Kjeldahl	0.535	8	8.14	95	-	-	-	-	77-111	-	-	24

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 65 ECKFORD ST

Project Number: 0202156

Lab Number: L2332960

Report Date: 06/27/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1790411-3 QC Sample: L2332960-01 Client ID: 65 ECKFORD-EFFLUENT-20230612						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1790618-3 QC Sample: L2332921-01 Client ID: DUP Sample						
Solids, Total Suspended	460	500	mg/l	8		32
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1790661-3 QC Sample: L2332960-01 Client ID: 65 ECKFORD-EFFLUENT-20230612						
CBOD, 5 day	ND	ND	mg/l	NC		49
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1790946-3 QC Sample: L2332302-01 Client ID: DUP Sample						
Solids, Total	880	930	mg/l	6		16
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1791391-3 QC Sample: L2331499-01 Client ID: DUP Sample						
Chloride	37.	36	mg/l	3		7
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1791475-3 QC Sample: L2332960-01 Client ID: 65 ECKFORD-EFFLUENT-20230612						
Nitrogen, Nitrate/Nitrite	0.87	0.86	mg/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1791761-3 QC Sample: L2329286-66 Client ID: DUP Sample						
Non-Polar Material By EPA 1664	ND	1.99J	mg/l	NC		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1791956-2 QC Sample: L2331342-01 Client ID: DUP Sample						
pH	7.15	7.06	SU	1		5

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 65 ECKFORD ST

Project Number: 0202156

Lab Number: L2332960

Report Date: 06/27/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1791973-2 QC Sample: L2333889-01 Client ID: DUP Sample					
Flash Point	<70	<70	deg F	NC	
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1792754-3 QC Sample: L2331303-03 Client ID: DUP Sample					
Nitrogen, Total Kjeldahl	0.535	0.728	mg/l	31	Q 24

**Project Name:** 65 ECKFORD ST**Lab Number:** L2332960**Project Number:** 0202156**Report Date:** 06/27/23**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

Cooler	Custody Seal
A	Absent

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2332960-01A	Vial Na2S2O3 preserved	A	NA		3.8	Y	Absent		624-NYDEP(7)
L2332960-01B	Vial Na2S2O3 preserved	A	NA		3.8	Y	Absent		624-NYDEP(7)
L2332960-01C	Vial Na2S2O3 preserved	A	NA		3.8	Y	Absent		624-NYDEP(7)
L2332960-01D	Amber 250ml unpreserved	A	7	7	3.8	Y	Absent		FLASH()
L2332960-01E	Plastic 250ml H2SO4 preserved	A	<2	<2	3.8	Y	Absent		TKN-4500(28),NO3/NO2-353(28),TNITROGEN(28)
L2332960-01F	Plastic 250ml HNO3 preserved	A	<2	<2	3.8	Y	Absent		NI-UI(180),ZN-UI(180),HG-U(28),CD-UI(180),CU-UI(180),PB-UI(180)
L2332960-01G	Plastic 950ml unpreserved	A	7	7	3.8	Y	Absent		TSC-2540(7),HEXCR-3500(1),CL-4500(28),PH-4500(.01)
L2332960-01H	Plastic 950ml unpreserved	A	7	7	3.8	Y	Absent		CBOD5(2)
L2332960-01J	Plastic 950ml unpreserved	A	7	7	3.8	Y	Absent		TSS-2540(7)
L2332960-01K	Amber 1000ml Na2S2O3	A	7	7	3.8	Y	Absent		625-NYDEP(7)
L2332960-01L	Amber 1000ml Na2S2O3	A	7	7	3.8	Y	Absent		625-NYDEP(7)
L2332960-01M	Amber 1000ml Na2S2O3	A	7	7	3.8	Y	Absent		NYPGB-608-2L(365)
L2332960-01N	Amber 1000ml Na2S2O3	A	7	7	3.8	Y	Absent		NYPGB-608-2L(365)
L2332960-01O	Amber 1000ml Na2S2O3	A	7	7	3.8	Y	Absent		NYPGB-608-2L(365)
L2332960-01P	Amber 1000ml Na2S2O3	A	7	7	3.8	Y	Absent		NYPGB-608-2L(365)
L2332960-01Q	Amber 1000ml HCl preserved	A	NA		3.8	Y	Absent		NYTPH-1664(28)
L2332960-01R	Amber 1000ml HCl preserved	A	NA		3.8	Y	Absent		NYTPH-1664(28)
L2332960-02A	Vial Na2S2O3 preserved	A	NA		3.8	Y	Absent		624-NYDEP(7)
L2332960-02B	Vial Na2S2O3 preserved	A	NA		3.8	Y	Absent		624-NYDEP(7)

**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Chlordane:** The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Gasoline Range Organics (GRO):** Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



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#### **Data Qualifiers**

Identified Compounds (TICs).

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



**Project Name:** 65 ECKFORD ST  
**Project Number:** 0202156

**Lab Number:** L2332960  
**Report Date:** 06/27/23

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 127 Method 608.3: Organochlorine Pesticides and PCBs by GC/HSD, EPA 821-R-16-009, December 2016.
- 128 Method 624.1: Purgeables by GC/MS, EPA 821-R-16-008, December 2016.
- 129 Method 625.1: Base/Neutrals and Acids by GC/MS, EPA 821-R-16-007, December 2016.
- 140 Method 1664, Revision B: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-10-001, February 2010.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

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The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 625.1:** alpha-Terpineol

**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** EPA 3050B

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The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

**SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).

**Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

**EPA 522, EPA 537.1.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1** Hg.

**SM2340B**

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For a complete listing of analytes and methods, please contact your Alpha Project Manager.

