



Thursday, May 22, 2025

Attn: Dan Jahne
Fuss & O'Neill, Inc.
One Financial Plaza, 15th Floor
Hartford, CT 06103

Project ID: RIVERFRONT RECAPTURE
SDG ID: GCT22559
Sample ID#s: CT22559 - CT22562

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.

The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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

Sample Id Cross Reference

May 22, 2025

SDG I.D.: GCT22559

Project ID: RIVERFRONT RECAPTURE

Client Id	Lab Id	Matrix	Col Date
1653250508-01	CT22559	SOIL	05/08/25 8:15
1653250508-02	CT22560	SOIL	05/08/25 8:30
1653250508-03LL	CT22561	SOIL	05/08/25 8:01
1653250508-03HL	CT22562	SOIL	05/08/25 8:01



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
One Financial Plaza, 15th Floor
Hartford, CT 06103

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/08/25
05/08/25

Time

8:15
9:40

Laboratory Data

SDG ID: GCT22559
Phoenix ID: CT22559

Project ID: RIVERFRONT RECAPTURE
Client ID: 1653250508-01

Stockpile H/I

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.44	0.44	mg/Kg	1	05/10/25	CPP	SW6010D
Arsenic	3.69	0.89	mg/Kg	1	05/10/25	CPP	SW6010D
Barium	105	0.44	mg/Kg	1	05/10/25	CPP	SW6010D
Cadmium	1.05	0.44	mg/Kg	1	05/10/25	CPP	SW6010D
Chromium	14.1	0.44	mg/Kg	1	05/10/25	TH	SW6010D
Mercury	0.75	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Lead	173	0.44	mg/Kg	1	05/10/25	CPP	SW6010D
Selenium	< 1.8	1.8	mg/Kg	1	05/10/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/09/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/09/25	CPP	SW846 1311/6010
TCLP Barium	0.38	0.01	mg/L	1	05/09/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/09/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/09/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.002	0.002	mg/L	1	05/09/25	JM	SW846 1311/7470
TCLP Lead	0.106	0.010	mg/L	1	05/09/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.05	0.05	mg/L	1	05/09/25	CPP	SW846 1311/6010D
TCLP Metals Digestion	Completed				05/09/25	AK/GW	SW3005A
Percent Solid	77		%		05/08/25	CV	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	05/08/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/12/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/12/25	G	SW846-Ignit
pH at 21C - Soil	7.86	1.00	pH Units	1	05/08/25 23:41	KG	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/08/25		SW5035A
Mercury Digestion	Completed				05/09/25	AC1/AC1	SW7471B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of ETPH	Completed				05/16/25	S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/12/25	P/MQ/D	SW3546
Soil Extraction for Pesticide	Completed				05/16/25	H/U/Z	SW3546
Soil Extraction for SVOA	Completed				05/15/25	S/Q	SW3546
Paint Filter Test	Passed		PASS/FAIL		05/08/25	O	SW9095B
Extraction for PCB	Completed				05/12/25	A/RB	SW3540C
TCLP Digestion Mercury	Completed				05/09/25	AK/GW	SW7470A
TCLP Herbicides Extraction	Completed				05/12/25	CV/MQ/D	SW8150 MOD
TCLP Extraction for Metals	Completed				05/08/25	AK	SW1311
TCLP Extraction for Organics	Completed				05/08/25	AK	SW1311
TCLP Pesticides Extraction	Completed				05/14/25	J/T/J	SW3510C
Total Metals Digest	Completed				05/09/25	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	160	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	160	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	320	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	3200	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	160	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	160	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	320	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	320	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	49000	ug/Kg	10	05/13/25	JRB	SW8151A
MCPP	ND	49000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	64		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	580	320	mg/Kg	5	05/21/25	JRB	CTETPH
Identification	**		mg/Kg	5	05/21/25	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	120		%	5	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	76		%	5	05/21/25	JRB	50 - 150 %

PCB (Soxhlet SW3540C)

PCB-1016	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1221	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1232	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1242	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1248	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1254	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1260	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1262	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1268	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
Total PCBs	ND	420	ug/Kg	10	05/13/25	SC	SW8082A

QA/QC Surrogates

% DCBP	138		%	10	05/13/25	SC	30 - 150 %
% DCBP (Confirmation)	Interference		%	10	05/13/25	SC	30 - 150 %
% TCMX	95		%	10	05/13/25	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	96		%	10	05/13/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	33	8.5	ug/Kg	2	05/20/25	AW	SW8081B
4,4' -DDE	75	8.5	ug/Kg	2	05/20/25	AW	SW8081B
4,4' -DDT	360	43	ug/Kg	10	05/20/25	AW	SW8081B
a-BHC	ND	1.7	ug/Kg	2	05/20/25	AW	SW8081B
Alachlor	ND	8.5	ug/Kg	2	05/20/25	AW	SW8081B
Aldrin	ND	1.7	ug/Kg	2	05/20/25	AW	SW8081B
b-BHC	ND	1.7	ug/Kg	2	05/20/25	AW	SW8081B
Chlordane	320	43	ug/Kg	2	05/20/25	AW	SW8081B
d-BHC	ND	1.7	ug/Kg	2	05/20/25	AW	SW8081B
Dieldrin	11	4.3	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan I	ND	8.5	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan II	ND	8.5	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan sulfate	ND	8.5	ug/Kg	2	05/20/25	AW	SW8081B
Endrin	ND	8.5	ug/Kg	2	05/20/25	AW	SW8081B
Endrin aldehyde	ND	8.5	ug/Kg	2	05/20/25	AW	SW8081B
Endrin ketone	ND	8.5	ug/Kg	2	05/20/25	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	05/20/25	AW	SW8081B
Heptachlor	ND	8.5	ug/Kg	2	05/20/25	AW	SW8081B
Heptachlor epoxide	ND	8.5	ug/Kg	2	05/20/25	AW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	05/20/25	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	05/20/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	80		%	2	05/20/25	AW	30 - 150 %
% DCBP (Confirmation)	111		%	2	05/20/25	AW	30 - 150 %
% TCMX	45		%	2	05/20/25	AW	30 - 150 %
% TCMX (Confirmation)	58		%	2	05/20/25	AW	30 - 150 %
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/13/25	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	05/13/25	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	66		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	74		%	10	05/13/25	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	0.98	ug/L	10	05/15/25	AW	SW8081B
4,4' -DDE	ND	0.98	ug/L	10	05/15/25	AW	SW8081B
4,4' -DDT	ND	0.98	ug/L	10	05/15/25	AW	SW8081B
a-BHC	ND	0.49	ug/L	10	05/15/25	AW	SW8081B
Alachlor	ND	0.49	ug/L	10	05/15/25	AW	SW8081B
Aldrin	ND	0.49	ug/L	10	05/15/25	AW	SW8081B
b-BHC	ND	0.49	ug/L	10	05/15/25	AW	SW8081B
Chlordane	ND	4.9	ug/L	10	05/15/25	AW	SW8081B
d-BHC	ND	0.49	ug/L	10	05/15/25	AW	SW8081B
Dieldrin	ND	0.98	ug/L	10	05/15/25	AW	SW8081B
Endosulfan I	ND	0.49	ug/L	10	05/15/25	AW	SW8081B
Endosulfan II	ND	0.98	ug/L	10	05/15/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan Sulfate	ND	0.98	ug/L	10	05/15/25	AW	SW8081B
Endrin	ND	0.98	ug/L	10	05/15/25	AW	SW8081B
Endrin Aldehyde	ND	0.98	ug/L	10	05/15/25	AW	SW8081B
g-BHC (Lindane)	ND	0.49	ug/L	10	05/15/25	AW	SW8081B
Heptachlor	ND	0.49	ug/L	10	05/15/25	AW	SW8081B
Heptachlor epoxide	ND	0.49	ug/L	10	05/15/25	AW	SW8081B
Methoxychlor	ND	0.49	ug/L	10	05/15/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/15/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	74		%	10	05/15/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	40		%	10	05/15/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	71		%	10	05/15/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	82		%	10	05/15/25	AW	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
1,1,1-Trichloroethane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.3	ug/Kg	1	05/09/25	JLI	SW8260
1,1,2-Trichloroethane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloroethane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloroethene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloropropene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
1,2,3-Trichloropropane	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dibromoethane	ND	0.89	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dichlorobenzene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
1,2-Dichloroethane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dichloropropane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
1,3-Dichlorobenzene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
1,3-Dichloropropane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
1,4-Dichlorobenzene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
2,2-Dichloropropane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
2-Chlorotoluene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
2-Hexanone	ND	44	ug/Kg	1	05/09/25	JLI	SW8260
2-Isopropyltoluene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
4-Chlorotoluene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
4-Methyl-2-pentanone	ND	44	ug/Kg	1	05/09/25	JLI	SW8260
Acetone	ND	440	ug/Kg	1	05/09/25	JLI	SW8260
Acrylonitrile	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Benzene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Bromobenzene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
Bromochloromethane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Bromodichloromethane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Bromoform	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Bromomethane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Carbon Disulfide	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Carbon tetrachloride	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Chlorobenzene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Chloroethane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Chloroform	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Chloromethane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Dibromochloromethane	ND	5.3	ug/Kg	1	05/09/25	JLI	SW8260
Dibromomethane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Dichlorodifluoromethane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Ethylbenzene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Hexachlorobutadiene	ND	200	ug/Kg	50	05/09/25	JLI	SW8260
Isopropylbenzene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
m&p-Xylene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Methyl Ethyl Ketone	ND	53	ug/Kg	1	05/09/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	18	ug/Kg	1	05/09/25	JLI	SW8260
Methylene chloride	ND	18	ug/Kg	1	05/09/25	JLI	SW8260
Naphthalene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
n-Butylbenzene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
n-Propylbenzene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
o-Xylene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
p-Isopropyltoluene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
sec-Butylbenzene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
Styrene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
tert-Butylbenzene	ND	480	ug/Kg	50	05/09/25	JLI	SW8260
Tetrachloroethene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	18	ug/Kg	1	05/09/25	JLI	SW8260
Toluene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Total Xylenes	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	960	ug/Kg	50	05/09/25	JLI	SW8260
Trichloroethene	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Trichlorofluoromethane	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Trichlorotrifluoroethane	ND	18	ug/Kg	1	05/09/25	JLI	SW8260
Vinyl chloride	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	05/09/25	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	05/09/25	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	05/09/25	JLI	70 - 130 %
% Toluene-d8	97		%	1	05/09/25	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/09/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	98		%	50	05/09/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	95		%	50	05/09/25	JLI	70 - 130 %
% Toluene-d8 (50x)	99		%	50	05/09/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	100	ug/Kg	1	05/09/25	JLI	SW8260
Diethyl ether	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Ethyl tert-butyl ether	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
tert-amyl methyl ether	ND	8.9	ug/Kg	1	05/09/25	JLI	SW8260
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/16/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
1,2-Dichlorobenzene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
1,3-Dichlorobenzene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
1,4-Dichlorobenzene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dichlorophenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dimethylphenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
2-Chloronaphthalene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2-Chlorophenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2-Methylnaphthalene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2-Nitrophenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	430	ug/Kg	1	05/16/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	430	ug/Kg	1	05/16/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4-Nitrophenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Acenaphthene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Acenaphthylene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Acetophenone	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Anthracene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Benz(a)anthracene	1400	600	ug/Kg	1	05/16/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(a)pyrene	1500	600	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(b)fluoranthene	2100	600	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(ghi)perylene	690	600	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(k)fluoranthene	750	600	ug/Kg	1	05/16/25	MR	SW8270E
Benzoic acid	ND	860	ug/Kg	1	05/16/25	MR	SW8270E
Benzyl butyl phthalate	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	430	ug/Kg	1	05/16/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/16/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	1600	600	ug/Kg	1	05/16/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Diethyl phthalate	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Dimethylphthalate	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Di-n-butylphthalate	ND	430	ug/Kg	1	05/16/25	MR	SW8270E
Di-n-octylphthalate	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Fluoranthene	2200	600	ug/Kg	1	05/16/25	MR	SW8270E
Fluorene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Hexachlorobenzene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Hexachloroethane	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	720	600	ug/Kg	1	05/16/25	MR	SW8270E
Isophorone	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Naphthalene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Nitrobenzene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/16/25	MR	SW8270E
Pentachlorophenol	ND	430	ug/Kg	1	05/16/25	MR	SW8270E
Phenanthrene	870	600	ug/Kg	1	05/16/25	MR	SW8270E
Phenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Pyrene	1800	600	ug/Kg	1	05/16/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	92		%	1	05/16/25	MR	30 - 130 %
% 2-Fluorobiphenyl	57		%	1	05/16/25	MR	30 - 130 %
% 2-Fluorophenol	57		%	1	05/16/25	MR	30 - 130 %
% Nitrobenzene-d5	67		%	1	05/16/25	MR	30 - 130 %
% Phenol-d5	64		%	1	05/16/25	MR	30 - 130 %
% Terphenyl-d14	36		%	1	05/16/25	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Paint Filter Test:

Pass = no free liquids were detected. Fail = free liquids were detected.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

May 22, 2025

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
One Financial Plaza, 15th Floor
Hartford, CT 06103

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/08/25
05/08/25

Time

8:30
9:40

Laboratory Data

SDG ID: GCT22559
Phoenix ID: CT22560

Project ID: RIVERFRONT RECAPTURE
Client ID: 1653250508-02

Stockpile K

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	05/10/25	CPP	SW6010D
Arsenic	3.71	0.80	mg/Kg	1	05/10/25	CPP	SW6010D
Barium	113	0.40	mg/Kg	1	05/10/25	CPP	SW6010D
Cadmium	0.84	0.40	mg/Kg	1	05/10/25	CPP	SW6010D
Chromium	21.9	0.40	mg/Kg	1	05/10/25	TH	SW6010D
Mercury	0.03	0.03	mg/Kg	2	05/09/25	JM	SW7471B
Lead	127	0.40	mg/Kg	1	05/10/25	CPP	SW6010D
Selenium	< 2.0	2.0	mg/Kg	1	05/10/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/09/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/09/25	CPP	SW846 1311/6010
TCLP Barium	0.30	0.01	mg/L	1	05/09/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/09/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/09/25	CPP	SW846 1311/6010
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/09/25	JM	SW846 1311/7470
TCLP Lead	0.016	0.010	mg/L	1	05/09/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.05	0.05	mg/L	1	05/09/25	CPP	SW846 1311/6010D
TCLP Metals Digestion	Completed				05/09/25	AK/GW	SW3005A
Percent Solid	78		%		05/08/25	CV	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	05/08/25	MW	SW846-Corr
Flash Point	>200	200	Degree F	1	05/12/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/12/25	G	SW846-Ignit
pH at 21C - Soil	7.31	1.00	pH Units	1	05/08/25 23:41	MW	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	05/16/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/19/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/19/25	NP/GD	SW846-React
Field Extraction	Completed				05/08/25		SW5035A
Mercury Digestion	Completed				05/09/25	AC1/AC1	SW7471B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of ETPH	Completed				05/16/25	S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/12/25	P/MQ/D	SW3546
Soil Extraction for Pesticide	Completed				05/16/25	H/U/Z	SW3546
Soil Extraction for SVOA	Completed				05/15/25	S/Q	SW3546
Paint Filter Test	Passed		PASS/FAIL		05/08/25	O	SW9095B
Extraction for PCB	Completed				05/12/25	A/RB	SW3540C
TCLP Digestion Mercury	Completed				05/09/25	AK/GW	SW7470A
TCLP Herbicides Extraction	Completed				05/12/25	CV/MQ/D	SW8150 MOD
TCLP Extraction for Metals	Completed				05/08/25	AK	SW1311
TCLP Extraction for Organics	Completed				05/08/25	AK	SW1311
TCLP Pesticides Extraction	Completed				05/14/25	J/T/J	SW3510C
Total Metals Digest	Completed				05/09/25	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	160	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	160	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	310	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	3100	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	160	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	160	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	310	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	310	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	47000	ug/Kg	10	05/13/25	JRB	SW8151A
MCPP	ND	47000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	53		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	67		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	740	640	mg/Kg	10	05/20/25	JRB	CTETPH
Identification	**		mg/Kg	10	05/20/25	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	Diluted Out		%	10	05/20/25	JRB	50 - 150 %
% Terphenyl (surr)	Diluted Out		%	10	05/20/25	JRB	50 - 150 %

PCB (Soxhlet SW3540C)

PCB-1016	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1221	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1232	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1242	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1248	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1254	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1260	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1262	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
PCB-1268	ND	420	ug/Kg	10	05/13/25	SC	SW8082A
Total PCBs	ND	420	ug/Kg	10	05/13/25	SC	SW8082A

QA/QC Surrogates

% DCBP	93		%	10	05/13/25	SC	30 - 150 %
% DCBP (Confirmation)	101		%	10	05/13/25	SC	30 - 150 %
% TCMX	84		%	10	05/13/25	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	85		%	10	05/13/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	27	8.4	ug/Kg	2	05/20/25	AW	SW8081B
4,4' -DDE	7.9	1.7	ug/Kg	2	05/20/25	AW	SW8081B
4,4' -DDT	52	8.4	ug/Kg	2	05/20/25	AW	SW8081B
a-BHC	ND	1.7	ug/Kg	2	05/20/25	AW	SW8081B
Alachlor	ND	8.4	ug/Kg	2	05/20/25	AW	SW8081B
Aldrin	ND	1.7	ug/Kg	2	05/20/25	AW	SW8081B
b-BHC	ND	1.7	ug/Kg	2	05/20/25	AW	SW8081B
Chlordane	280	42	ug/Kg	2	05/20/25	AW	SW8081B
d-BHC	ND	1.7	ug/Kg	2	05/20/25	AW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan I	ND	8.4	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan II	ND	8.4	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan sulfate	ND	8.4	ug/Kg	2	05/20/25	AW	SW8081B
Endrin	ND	8.4	ug/Kg	2	05/20/25	AW	SW8081B
Endrin aldehyde	ND	8.4	ug/Kg	2	05/20/25	AW	SW8081B
Endrin ketone	ND	8.4	ug/Kg	2	05/20/25	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	05/20/25	AW	SW8081B
Heptachlor	ND	8.4	ug/Kg	2	05/20/25	AW	SW8081B
Heptachlor epoxide	12	8.4	ug/Kg	2	05/20/25	AW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	05/20/25	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	05/20/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	44		%	2	05/20/25	AW	30 - 150 %
% DCBP (Confirmation)	76		%	2	05/20/25	AW	30 - 150 %
% TCMX	35		%	2	05/20/25	AW	30 - 150 %
% TCMX (Confirmation)	56		%	2	05/20/25	AW	30 - 150 %
<u>TCLP Herbicides</u>							
2,4,5-TP (Silvex)	ND	50	ug/L	10	05/13/25	JRB	SW846 1311/8151
2,4-D	ND	100	ug/L	10	05/13/25	JRB	SW846 1311/8151
<u>QA/QC Surrogates</u>							
% DCAA	63		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	69		%	10	05/13/25	JRB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	05/15/25	AW	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	05/15/25	AW	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	05/15/25	AW	SW8081B
a-BHC	ND	0.50	ug/L	10	05/15/25	AW	SW8081B
Alachlor	ND	0.50	ug/L	10	05/15/25	AW	SW8081B
Aldrin	ND	0.50	ug/L	10	05/15/25	AW	SW8081B
b-BHC	ND	0.50	ug/L	10	05/15/25	AW	SW8081B
Chlordane	ND	5.0	ug/L	10	05/15/25	AW	SW8081B
d-BHC	ND	0.50	ug/L	10	05/15/25	AW	SW8081B
Dieldrin	ND	1.0	ug/L	10	05/15/25	AW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	05/15/25	AW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	05/15/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan Sulfate	ND	1.0	ug/L	10	05/15/25	AW	SW8081B
Endrin	ND	1.0	ug/L	10	05/15/25	AW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	05/15/25	AW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	05/15/25	AW	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/15/25	AW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/15/25	AW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/15/25	AW	SW8081B
Toxaphene	ND	20	ug/L	10	05/15/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	71		%	10	05/15/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	38		%	10	05/15/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	72		%	10	05/15/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	85		%	10	05/15/25	AW	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
1,1,1-Trichloroethane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.5	ug/Kg	1	05/09/25	JLI	SW8260
1,1,2-Trichloroethane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloroethane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloroethene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloropropene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
1,2,3-Trichloropropane	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dibromoethane	ND	0.91	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dichlorobenzene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
1,2-Dichloroethane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dichloropropane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
1,3-Dichlorobenzene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
1,3-Dichloropropane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
1,4-Dichlorobenzene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
2,2-Dichloropropane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
2-Chlorotoluene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
2-Hexanone	ND	46	ug/Kg	1	05/09/25	JLI	SW8260
2-Isopropyltoluene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
4-Chlorotoluene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
4-Methyl-2-pentanone	ND	46	ug/Kg	1	05/09/25	JLI	SW8260
Acetone	ND	460	ug/Kg	1	05/09/25	JLI	SW8260
Acrylonitrile	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Benzene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Bromobenzene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
Bromochloromethane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Bromodichloromethane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Bromoform	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Bromomethane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Carbon Disulfide	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Carbon tetrachloride	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Chlorobenzene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Chloroethane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Chloroform	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Chloromethane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Dibromochloromethane	ND	5.5	ug/Kg	1	05/09/25	JLI	SW8260
Dibromomethane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Dichlorodifluoromethane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Ethylbenzene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Hexachlorobutadiene	ND	200	ug/Kg	50	05/09/25	JLI	SW8260
Isopropylbenzene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
m&p-Xylene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Methyl Ethyl Ketone	ND	55	ug/Kg	1	05/09/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	18	ug/Kg	1	05/09/25	JLI	SW8260
Methylene chloride	ND	18	ug/Kg	1	05/09/25	JLI	SW8260
Naphthalene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
n-Butylbenzene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
n-Propylbenzene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
o-Xylene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
p-Isopropyltoluene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
sec-Butylbenzene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
Styrene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
tert-Butylbenzene	ND	470	ug/Kg	50	05/09/25	JLI	SW8260
Tetrachloroethene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	18	ug/Kg	1	05/09/25	JLI	SW8260
Toluene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Total Xylenes	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	940	ug/Kg	50	05/09/25	JLI	SW8260
Trichloroethene	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Trichlorofluoromethane	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Trichlorotrifluoroethane	ND	18	ug/Kg	1	05/09/25	JLI	SW8260
Vinyl chloride	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	93		%	1	05/09/25	JLI	70 - 130 %
% Bromofluorobenzene	77		%	1	05/09/25	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	05/09/25	JLI	70 - 130 %
% Toluene-d8	90		%	1	05/09/25	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/09/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	98		%	50	05/09/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	91		%	50	05/09/25	JLI	70 - 130 %
% Toluene-d8 (50x)	98		%	50	05/09/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	100	ug/Kg	1	05/09/25	JLI	SW8260
Diethyl ether	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Ethyl tert-butyl ether	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
tert-amyl methyl ether	ND	9.1	ug/Kg	1	05/09/25	JLI	SW8260
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/16/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
1,2-Dichlorobenzene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
1,3-Dichlorobenzene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
1,4-Dichlorobenzene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dichlorophenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dimethylphenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
2-Chloronaphthalene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2-Chlorophenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2-Methylnaphthalene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2-Nitrophenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	430	ug/Kg	1	05/16/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	430	ug/Kg	1	05/16/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4-Nitrophenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Acenaphthene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Acenaphthylene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Acetophenone	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Anthracene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Benz(a)anthracene	610	600	ug/Kg	1	05/16/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(a)pyrene	970	600	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(b)fluoranthene	1000	600	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(ghi)perylene	1800	600	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(k)fluoranthene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Benzoic acid	ND	850	ug/Kg	1	05/16/25	MR	SW8270E
Benzyl butyl phthalate	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	430	ug/Kg	1	05/16/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/16/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	890	600	ug/Kg	1	05/16/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Diethyl phthalate	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Dimethylphthalate	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Di-n-butylphthalate	ND	430	ug/Kg	1	05/16/25	MR	SW8270E
Di-n-octylphthalate	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Fluoranthene	990	600	ug/Kg	1	05/16/25	MR	SW8270E
Fluorene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Hexachlorobenzene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Hexachloroethane	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Isophorone	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Naphthalene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Nitrobenzene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/16/25	MR	SW8270E
Pentachlorophenol	ND	430	ug/Kg	1	05/16/25	MR	SW8270E
Phenanthrene	ND	600	ug/Kg	1	05/16/25	MR	SW8270E
Phenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
Pyrene	980	600	ug/Kg	1	05/16/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	63		%	1	05/16/25	MR	30 - 130 %
% 2-Fluorobiphenyl	53		%	1	05/16/25	MR	30 - 130 %
% 2-Fluorophenol	56		%	1	05/16/25	MR	30 - 130 %
% Nitrobenzene-d5	57		%	1	05/16/25	MR	30 - 130 %
% Phenol-d5	55		%	1	05/16/25	MR	30 - 130 %
% Terphenyl-d14	41		%	1	05/16/25	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Paint Filter Test:

Pass = no free liquids were detected. Fail = free liquids were detected.

Corrosivity is based solely on the pH analysis performed above.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Volatile Comment:

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

May 22, 2025

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
One Financial Plaza, 15th Floor
Hartford, CT 06103

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/08/25
05/08/25

Time

8:01
9:40

Laboratory Data

SDG ID: GCT22559
Phoenix ID: CT22561

Project ID: RIVERFRONT RECAPTURE
Client ID: 1653250508-03LL

Trip Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				05/08/25		SW5035A
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/09/25	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dibromoethane	ND	0.50	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	05/09/25	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/09/25	JLI	SW8260
Acetone	ND	250	ug/Kg	1	05/09/25	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	05/09/25	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/09/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/09/25	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	05/09/25	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/09/25	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/09/25	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/09/25	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/09/25	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	98		%	1	05/09/25	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	05/09/25	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/09/25	JLI	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	100	ug/Kg	1	05/09/25	JLI	SW8260
Diethyl ether	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
Ethyl tert-butyl ether	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
tert-amyl methyl ether	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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.
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Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
One Financial Plaza, 15th Floor
Hartford, CT 06103

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/08/25
05/08/25

Time

8:01
9:40

Laboratory Data

SDG ID: GCT22559
Phoenix ID: CT22562

Project ID: RIVERFRONT RECAPTURE
Client ID: 1653250508-03HL

Trip Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				05/08/25		SW5035A
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	50	ug/Kg	50	05/09/25	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	50	ug/Kg	50	05/09/25	JLI	SW8260
1,1,2-Trichloroethane	ND	100	ug/Kg	50	05/09/25	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
1,1-Dichloroethene	ND	140	ug/Kg	50	05/09/25	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/09/25	JLI	SW8260
1,2-Dibromoethane	ND	25	ug/Kg	50	05/09/25	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
1,2-Dichloroethane	ND	25	ug/Kg	50	05/09/25	JLI	SW8260
1,2-Dichloropropane	ND	100	ug/Kg	50	05/09/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
2-Hexanone	ND	700	ug/Kg	50	05/09/25	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/09/25	JLI	SW8260
Acetone	ND	5000	ug/Kg	50	05/09/25	JLI	SW8260
Acrylonitrile	ND	25	ug/Kg	50	05/09/25	JLI	SW8260
Benzene	ND	25	ug/Kg	50	05/09/25	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Bromodichloromethane	ND	50	ug/Kg	50	05/09/25	JLI	SW8260
Bromoform	ND	80	ug/Kg	50	05/09/25	JLI	SW8260
Bromomethane	ND	100	ug/Kg	50	05/09/25	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Carbon tetrachloride	ND	100	ug/Kg	50	05/09/25	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Chloroethane	ND	150	ug/Kg	50	05/09/25	JLI	SW8260
Chloroform	ND	120	ug/Kg	50	05/09/25	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	25	ug/Kg	50	05/09/25	JLI	SW8260
Dibromochloromethane	ND	50	ug/Kg	50	05/09/25	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Hexachlorobutadiene	ND	200	ug/Kg	50	05/09/25	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/09/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Methylene chloride	ND	100	ug/Kg	50	05/09/25	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Styrene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Tetrachloroethene	ND	100	ug/Kg	50	05/09/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	130	ug/Kg	50	05/09/25	JLI	SW8260
Toluene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	25	ug/Kg	50	05/09/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/09/25	JLI	SW8260
Trichloroethene	ND	100	ug/Kg	50	05/09/25	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Vinyl chloride	ND	40	ug/Kg	50	05/09/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	05/09/25	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	98		%	50	05/09/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	95		%	50	05/09/25	JLI	70 - 130 %
% Toluene-d8 (50x)	99		%	50	05/09/25	JLI	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	800	ug/Kg	50	05/09/25	JLI	SW8260
Diethyl ether	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
Ethyl tert-butyl ether	ND	250	ug/Kg	50	05/09/25	JLI	SW8260
tert-amyl methyl ether	ND	250	ug/Kg	50	05/09/25	JLI	SW8260

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

QA/QC Report

May 22, 2025

QA/QC Data

SDG I.D.: GCT22559

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 783515 (mg/L), QC Sample No: CT22565 (CT22559, CT22560)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	103			102			80 - 120	20
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Comment:

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

QA/QC Batch 783531 (mg/kg), QC Sample No: CT22601 (CT22560)

Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	112	112	0.0	115	89.1	25.4	70 - 130	30
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Comment:

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

QA/QC Batch 783530 (mg/kg), QC Sample No: CT22902 (CT22559)

Mercury - Soil	BRL	0.03	0.04	0.04	NC	112	114	1.8	105	129	20.5	70 - 130	30	m
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Comment:

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

QA/QC Batch 783640 (mg/kg), QC Sample No: CT22483 (CT22559, CT22560)

ICP Metals - Soil

Arsenic	BRL	0.67	1.93	2.05	NC	101	97.5	3.5	90.3			75 - 125	30
Barium	BRL	0.33	54.4	56.1	3.10	104	94.2	9.9	97.3			75 - 125	30
Cadmium	BRL	0.33	<0.39	<0.41	NC	107	98.8	8.0	94.1			75 - 125	30
Chromium	BRL	3.0	26.8	25.5	5.00	112	104	7.4	96.4			75 - 125	30
Lead	BRL	0.33	6.02	8.58	35.1	107	105	1.9	94.0			75 - 125	30
Selenium	BRL	1.3	<1.6	1.4	NC	94.3	88.6	6.2	77.8			75 - 125	30
Silver	BRL	0.33	<0.39	<0.41	NC	108	103	4.7	94.9			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 783521 (mg/L), QC Sample No: CT22559 (CT22559)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.01	<0.01	<0.01	NC	104	105	1.0	104			80 - 120	20
Barium	BRL	0.01	0.38	0.37	2.70	102	104	1.9	100			80 - 120	20
Cadmium	BRL	0.005	<0.005	<0.005	NC	96.0	97.6	1.7	92.8			80 - 120	20
Chromium	BRL	0.010	<0.010	<0.010	NC	98.0	99.9	1.9	96.4			80 - 120	20
Lead	BRL	0.010	0.106	0.103	2.90	95.3	97.0	1.8	93.8			80 - 120	20
Selenium	BRL	0.01	<0.05	<0.05	NC	101	103	2.0	99.8			80 - 120	20
Silver	BRL	0.010	<0.010	<0.010	NC	102	104	1.9	102			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 783520 (mg/L), QC Sample No: CT22902 (CT22560)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.01	<0.01	<0.01	NC	105	105	0.0	107			80 - 120	20
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QA/QC Data

SDG I.D.: GCT22559

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Barium	BRL	0.01	0.21	0.21	0	102	102	0.0	103			80 - 120	20
Cadmium	BRL	0.005	<0.005	<0.005	NC	95.8	96.4	0.6	98.4			80 - 120	20
Chromium	BRL	0.010	<0.010	<0.010	NC	96.5	97.0	0.5	99.3			80 - 120	20
Lead	BRL	0.010	0.033	0.033	NC	95.4	96.0	0.6	97.8			80 - 120	20
Selenium	BRL	0.01	<0.05	<0.01	NC	101	101	0.0	104			80 - 120	20
Silver	BRL	0.010	<0.010	<0.010	NC	101	102	1.0	103			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%.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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QA/QC Report

May 22, 2025

QA/QC Data

SDG I.D.: GCT22559

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 784318 (mg/Kg), QC Sample No: CT21512 (CT22559)													
Reactivity Cyanide	BRL	5	<7	<6.8	NC	98.6						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	100						80 - 120	30
QA/QC Batch 784715 (mg/Kg), QC Sample No: CT22604 (CT22560)													
Reactivity Cyanide	BRL	5	<5	<5.4	NC	98.8						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	100						80 - 120	30
QA/QC Batch 783958 (Degree F), QC Sample No: CT21605 (CT22559, CT22560)													
Flash Point			>200	>200	NC	101						75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 783488 (PH), QC Sample No: CT22559 (CT22559, CT22560)													
pH			7.86	7.89	0.40	100						85 - 115	20



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QA/QC Report

May 22, 2025

QA/QC Data

SDG I.D.: GCT22559

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 784798 (mg/Kg), QC Sample No: CT21577 (CT22559, CT22560)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	97	82	16.8	88	87	1.1	60 - 120	30
% COD (surr)	66	%	93	78	17.5	81	78	3.8	50 - 150	30
% Terphenyl (surr)	70	%	84	72	15.4	63	73	14.7	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 783987 (ug/Kg), QC Sample No: CT21520 (CT22559, CT22560)

Chlorinated Herbicides - Soil

2,4,5-T	ND	130	61	58	5.0	45	49	8.5	40 - 140	30
2,4,5-TP (Silvex)	ND	130	70	69	1.4	55	58	5.3	40 - 140	30
2,4-D	ND	250	69	65	6.0	53	53	0.0	40 - 140	30
2,4-DB	ND	2500	48	67	33.0	36	32	11.8	40 - 140	30
Dalapon	ND	130	65	62	4.7	49	52	5.9	40 - 140	30
Dicamba	ND	130	72	68	5.7	55	60	8.7	40 - 140	30
Dichloroprop	ND	130	74	76	2.7	63	63	0.0	40 - 140	30
Dinoseb	ND	130	70	74	5.6	59	66	11.2	40 - 140	30
MCPA	ND	38000	69	88	24.2	36	32	11.8	40 - 140	30
MCPP	ND	38000	71	81	13.2	39	40	2.5	40 - 140	30
% DCAA (Surrogate Rec)	87	%	78	83	6.2	64	63	1.6	30 - 150	30
% DCAA (Surrogate Rec) (Confirm	76	%	66	97	38.0	74	71	4.1	30 - 150	30

Comment:

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 783884 (ug/L), QC Sample No: CT21526 (CT22559, CT22560)

Chlorinated Herbicides

2,4,5-TP (Silvex)	ND	2.5	90	92	2.2				40 - 140	20
2,4-D	ND	5.0	85	87	2.3				40 - 140	20
% DCAA (Surrogate Rec)	65	%	69	69	0.0				30 - 150	20
% DCAA (Surrogate Rec) (Confirm	74	%	76	85	11.2				30 - 150	20

Comment:

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 783953 (ug/Kg), QC Sample No: CT22559 (CT22559, CT22560)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	130	82			83	86	3.6	40 - 140	30
PCB-1221	ND	130							40 - 140	30
PCB-1232	ND	130							40 - 140	30
PCB-1242	ND	130							40 - 140	30
PCB-1248	ND	130							40 - 140	30
PCB-1254	ND	130							40 - 140	30

QA/QC Data

SDG I.D.: GCT22559

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
PCB-1260	ND	130	84			75	76	1.3	40 - 140	30
PCB-1262	ND	130							40 - 140	30
PCB-1268	ND	130							40 - 140	30
% DCBP (Surrogate Rec)	81	%	95			124	105	16.6	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	88	%	102			131	110	17.4	30 - 150	30
% TCMX (Surrogate Rec)	78	%	69			81	82	1.2	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	80	%	76			87	88	1.1	30 - 150	30

Comment:

This batch consists of a Blank, LCS, MS and MSD.

QA/QC Batch 784378 (ug/L), QC Sample No: CT23775 (CT22559, CT22560)

Pesticides

4,4' -DDD	ND	0.25	112	114	1.8	78			40 - 140	20
4,4' -DDE	ND	0.25	112	113	0.9	79			40 - 140	20
4,4' -DDT	ND	0.25	107	108	0.9	76			40 - 140	20
a-BHC	ND	0.15	110	111	0.9	79			40 - 140	20
Alachlor	ND	0.50	NA	NA	NC	NA			40 - 140	20
Aldrin	ND	0.15	105	105	0.0	77			40 - 140	20
b-BHC	ND	0.15	107	109	1.9	78			40 - 140	20
Chlordane	ND	5.0	109	111	1.8	78			40 - 140	20
d-BHC	ND	0.50	117	118	0.9	82			40 - 140	20
Dieldrin	ND	0.15	112	114	1.8	79			40 - 140	20
Endosulfan I	ND	0.50	108	110	1.8	79			40 - 140	20
Endosulfan II	ND	0.50	120	121	0.8	86			40 - 140	20
Endosulfan sulfate	ND	0.50	120	120	0.0	85			40 - 140	20
Endrin	ND	0.50	110	115	4.4	80			40 - 140	20
Endrin aldehyde	ND	0.50	111	111	0.0	80			40 - 140	20
g-BHC	ND	0.15	121	122	0.8	87			40 - 140	20
Heptachlor	ND	0.50	107	107	0.0	77			40 - 140	20
Heptachlor epoxide	ND	0.50	102	103	1.0	73			40 - 140	20
Methoxychlor	ND	0.50	111	115	3.5	80			40 - 140	20
Toxaphene	ND	20	NA	NA	NC	NA			40 - 140	20
% DCBP	95	%	94	92	2.2	67			30 - 150	20
% DCBP (Confirmation)	114	%	118	116	1.7	83			30 - 150	20
% TCMX	78	%	79	76	3.9	58			30 - 150	20
% TCMX (Confirmation)	73	%	80	75	6.5	57			30 - 150	20

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 784797 (ug/Kg), QC Sample No: CT29605 (CT22559, CT22560)

Pesticides - Soil

4,4' -DDD	ND	1.7	83	83	0.0	75	75	0.0	40 - 140	30
4,4' -DDE	ND	1.7	86	84	2.4	78	80	2.5	40 - 140	30
4,4' -DDT	ND	1.7	82	84	2.4	79	80	1.3	40 - 140	30
a-BHC	ND	1.0	77	78	1.3	73	73	0.0	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	76	76	0.0	70	69	1.4	40 - 140	30
b-BHC	ND	1.0	76	74	2.7	68	68	0.0	40 - 140	30
Chlordane	ND	33	80	81	1.2	80	71	11.9	40 - 140	30
d-BHC	ND	3.3	75	74	1.3	71	71	0.0	40 - 140	30
Dieldrin	ND	1.0	82	81	1.2	75	77	2.6	40 - 140	30
Endosulfan I	ND	3.3	65	66	1.5	64	60	6.5	40 - 140	30
Endosulfan II	ND	3.3	84	84	0.0	76	77	1.3	40 - 140	30

QA/QC Data

SDG I.D.: GCT22559

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Endosulfan sulfate	ND	3.3	86	85	1.2	79	80	1.3	40 - 140	30
Endrin	ND	3.3	93	92	1.1	87	87	0.0	40 - 140	30
Endrin aldehyde	ND	3.3	72	73	1.4	68	67	1.5	40 - 140	30
Endrin ketone	ND	3.3	87	92	5.6	84	86	2.4	40 - 140	30
g-BHC	ND	1.0	77	78	1.3	70	72	2.8	40 - 140	30
Heptachlor	ND	3.3	72	71	1.4	67	67	0.0	40 - 140	30
Heptachlor epoxide	ND	3.3	78	76	2.6	71	74	4.1	40 - 140	30
Methoxychlor	ND	3.3	77	81	5.1	75	76	1.3	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	68	%	74	74	0.0	69	70	1.4	30 - 150	30
% DCBP (Confirmation)	46	%	50	50	0.0	45	43	4.5	30 - 150	30
% TCMX	65	%	72	71	1.4	65	67	3.0	30 - 150	30
% TCMX (Confirmation)	64	%	71	69	2.9	62	60	3.3	30 - 150	30

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 784639 (ug/kg), QC Sample No: CT22560 (CT22559, CT22560)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	58	57	1.7	61	58	5.0	40 - 140	30	
1,2,4-Trichlorobenzene	ND	230	58	57	1.7	61	62	1.6	40 - 140	30	
1,2-Dichlorobenzene	ND	180	57	58	1.7	59	64	8.1	40 - 140	30	
1,2-Diphenylhydrazine	ND	230	71	70	1.4	63	67	6.2	40 - 140	30	
1,3-Dichlorobenzene	ND	230	53	54	1.9	56	60	6.9	40 - 140	30	
1,4-Dichlorobenzene	ND	230	54	55	1.8	56	61	8.5	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	59	59	0.0	60	69	14.0	40 - 140	30	
2,4,5-Trichlorophenol	ND	230	82	81	1.2	69	76	9.7	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	82	81	1.2	67	75	11.3	30 - 130	30	
2,4-Dichlorophenol	ND	130	76	74	2.7	70	75	6.9	30 - 130	30	
2,4-Dimethylphenol	ND	230	77	76	1.3	70	76	8.2	30 - 130	30	
2,4-Dinitrophenol	ND	230	117	125	6.6	43	49	13.0	30 - 130	30	
2,4-Dinitrotoluene	ND	130	89	91	2.2	85	90	5.7	30 - 130	30	
2,6-Dinitrotoluene	ND	130	92	93	1.1	76	85	11.2	40 - 140	30	
2-Chloronaphthalene	ND	230	69	67	2.9	61	65	6.3	40 - 140	30	
2-Chlorophenol	ND	230	78	77	1.3	68	76	11.1	30 - 130	30	
2-Methylnaphthalene	ND	230	72	71	1.4	72	74	2.7	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	80	80	0.0	72	81	11.8	40 - 140	30	
2-Nitroaniline	ND	330	108	115	6.3	43	55	24.5	40 - 140	30	
2-Nitrophenol	ND	230	81	80	1.2	76	85	11.2	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	86	86	0.0	75	82	8.9	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	101	98	3.0	<10	<10	NC	40 - 140	30	m
3-Nitroaniline	ND	330	118	124	5.0	42	52	21.3	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	99	103	4.0	47	51	8.2	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	70	67	4.4	57	58	1.7	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	82	83	1.2	78	83	6.2	30 - 130	30	
4-Chloroaniline	ND	230	81	80	1.2	43	47	8.9	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	72	70	2.8	61	63	3.2	40 - 140	30	
4-Nitroaniline	ND	230	98	101	3.0	83	94	12.4	40 - 140	30	
4-Nitrophenol	ND	230	120	124	3.3	116	95	19.9	30 - 130	30	
Acenaphthene	ND	230	68	67	1.5	58	60	3.4	30 - 130	30	
Acenaphthylene	ND	130	60	58	3.4	55	58	5.3	40 - 140	30	
Acetophenone	ND	230	68	68	0.0	65	72	10.2	40 - 140	30	
Aniline	ND	330	58	54	7.1	25	35	33.3	40 - 140	30	m,r

QA/QC Data

SDG I.D.: GCT22559

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Anthracene	ND	230	68	67	1.5	64	66	3.1	40 - 140	30	
Benz(a)anthracene	ND	230	66	64	3.1	55	58	5.3	40 - 140	30	
Benztidine	ND	330	73	69	5.6	<10	<10	NC	40 - 140	30	m
Benzo(a)pyrene	ND	130	67	66	1.5	53	52	1.9	40 - 140	30	
Benzo(b)fluoranthene	ND	160	65	63	3.1	52	51	1.9	40 - 140	30	
Benzo(ghi)perylene	ND	230	58	58	0.0	52	41	23.7	40 - 140	30	
Benzo(k)fluoranthene	ND	230	64	63	1.6	52	55	5.6	40 - 140	30	
Benzoic Acid	ND	670	117	125	6.6	75	89	17.1	30 - 130	30	
Benzyl butyl phthalate	ND	230	80	78	2.5	75	82	8.9	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	69	68	1.5	63	71	11.9	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	68	68	0.0	65	75	14.3	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	79	76	3.9	79	83	4.9	40 - 140	30	
Carbazole	ND	230	76	76	0.0	68	74	8.5	40 - 140	30	
Chrysene	ND	230	71	68	4.3	61	64	4.8	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	63	63	0.0	43	42	2.4	40 - 140	30	
Dibenzofuran	ND	230	73	71	2.8	64	67	4.6	40 - 140	30	
Diethyl phthalate	ND	230	78	79	1.3	64	72	11.8	40 - 140	30	
Dimethylphthalate	ND	230	79	79	0.0	62	70	12.1	40 - 140	30	
Di-n-butylphthalate	ND	670	72	71	1.4	62	67	7.8	40 - 140	30	
Di-n-octylphthalate	ND	230	80	78	2.5	69	73	5.6	40 - 140	30	
Fluoranthene	ND	230	64	64	0.0	57	59	3.4	40 - 140	30	
Fluorene	ND	230	70	69	1.4	62	64	3.2	40 - 140	30	
Hexachlorobenzene	ND	130	68	66	3.0	66	52	23.7	40 - 140	30	
Hexachlorobutadiene	ND	230	51	50	2.0	57	57	0.0	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	40	31	25.4	<10	<10	NC	40 - 140	30	l,m
Hexachloroethane	ND	130	55	55	0.0	53	51	3.8	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	61	61	0.0	40	38	5.1	40 - 140	30	m
Isophorone	ND	130	67	67	0.0	61	68	10.9	40 - 140	30	
Naphthalene	ND	230	59	59	0.0	59	65	9.7	40 - 140	30	
Nitrobenzene	ND	130	72	72	0.0	71	79	10.7	40 - 140	30	
N-Nitrosodimethylamine	ND	230	90	90	0.0	70	85	19.4	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	71	71	0.0	68	76	11.1	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	71	70	1.4	60	65	8.0	40 - 140	30	
Pentachloronitrobenzene	ND	230	70	69	1.4	64	59	8.1	40 - 140	30	
Pentachlorophenol	ND	230	82	82	0.0	75	78	3.9	30 - 130	30	
Phenanthrene	ND	130	68	66	3.0	62	67	7.8	40 - 140	30	
Phenol	ND	230	93	94	1.1	75	83	10.1	30 - 130	30	
Pyrene	ND	230	62	62	0.0	57	57	0.0	30 - 130	30	
Pyridine	ND	230	73	70	4.2	61	73	17.9	40 - 140	30	
% 2,4,6-Tribromophenol	91	%	83	83	0.0	80	85	6.1	30 - 130	30	
% 2-Fluorobiphenyl	73	%	67	66	1.5	57	63	10.0	30 - 130	30	
% 2-Fluorophenol	72	%	86	87	1.2	71	81	13.2	30 - 130	30	
% Nitrobenzene-d5	70	%	72	73	1.4	68	81	17.4	30 - 130	30	
% Phenol-d5	71	%	85	87	2.3	73	81	10.4	30 - 130	30	
% Terphenyl-d14	70	%	59	60	1.7	47	47	0.0	30 - 130	30	

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 783656 (ug/kg), QC Sample No: CT22604 (CT22559, CT22560, CT22561)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	98	98	0.0	90	92	2.2	70 - 130	20
1,1,1-Trichloroethane	ND	5.0	106	107	0.9	99	102	3.0	70 - 130	20

QA/QC Data

SDG I.D.: GCT22559

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,2,2-Tetrachloroethane	ND	3.0	110	107	2.8	122	125	2.4	70 - 130	20	
1,1,2-Trichloroethane	ND	5.0	112	111	0.9	104	105	1.0	70 - 130	20	
1,1-Dichloroethane	ND	5.0	106	105	0.9	101	104	2.9	70 - 130	20	
1,1-Dichloroethene	ND	5.0	105	107	1.9	100	104	3.9	70 - 130	20	
1,1-Dichloropropene	ND	5.0	109	108	0.9	103	104	1.0	70 - 130	20	
1,2,3-Trichlorobenzene	ND	5.0	105	104	1.0	55	56	1.8	70 - 130	20	m
1,2,3-Trichloropropane	ND	5.0	106	114	7.3	119	122	2.5	70 - 130	20	
1,2,4-Trichlorobenzene	ND	5.0	100	99	1.0	61	61	0.0	70 - 130	20	m
1,2,4-Trimethylbenzene	ND	1.0	107	107	0.0	74	73	1.4	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	5.0	103	103	0.0	92	97	5.3	70 - 130	20	
1,2-Dibromoethane	ND	5.0	110	107	2.8	102	105	2.9	70 - 130	20	
1,2-Dichlorobenzene	ND	5.0	105	104	1.0	89	89	0.0	70 - 130	20	
1,2-Dichloroethane	ND	5.0	106	106	0.0	100	102	2.0	70 - 130	20	
1,2-Dichloropropane	ND	5.0	105	103	1.9	101	103	2.0	70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0	106	106	0.0	91	89	2.2	70 - 130	20	
1,3-Dichlorobenzene	ND	5.0	105	104	1.0	100	100	0.0	70 - 130	20	
1,3-Dichloropropane	ND	5.0	108	109	0.9	106	109	2.8	70 - 130	20	
1,4-Dichlorobenzene	ND	5.0	101	100	1.0	95	97	2.1	70 - 130	20	
1,4-dioxane	ND	100	103	107	3.8	93	100	7.3	70 - 130	20	
2,2-Dichloropropane	ND	5.0	99	99	0.0	87	91	4.5	70 - 130	20	
2-Chlorotoluene	ND	5.0	109	109	0.0	109	110	0.9	70 - 130	20	
2-Hexanone	ND	25	90	89	1.1	36	40	10.5	70 - 130	20	m
2-Isopropyltoluene	ND	5.0	109	109	0.0	100	97	3.0	70 - 130	20	
4-Chlorotoluene	ND	5.0	108	106	1.9	108	109	0.9	70 - 130	20	
4-Methyl-2-pentanone	ND	25	97	98	1.0	62	63	1.6	70 - 130	20	m
Acetone	ND	10	100	97	3.0	82	83	1.2	70 - 130	20	
Acrylonitrile	ND	5.0	101	100	1.0	79	83	4.9	70 - 130	20	
Benzene	ND	1.0	106	106	0.0	101	103	2.0	70 - 130	20	
Bromobenzene	ND	5.0	107	105	1.9	111	114	2.7	70 - 130	20	
Bromochloromethane	ND	5.0	112	112	0.0	104	109	4.7	70 - 130	20	
Bromodichloromethane	ND	5.0	106	106	0.0	97	100	3.0	70 - 130	20	
Bromoform	ND	5.0	87	88	1.1	70	78	10.8	70 - 130	20	
Bromomethane	ND	5.0	106	106	0.0	99	102	3.0	70 - 130	20	
Carbon Disulfide	ND	5.0	107	107	0.0	93	95	2.1	70 - 130	20	
Carbon tetrachloride	ND	5.0	93	93	0.0	82	88	7.1	70 - 130	20	
Chlorobenzene	ND	5.0	103	102	1.0	97	98	1.0	70 - 130	20	
Chloroethane	ND	5.0	114	118	3.4	112	115	2.6	70 - 130	20	
Chloroform	ND	5.0	113	111	1.8	108	109	0.9	70 - 130	20	
Chloromethane	ND	5.0	98	99	1.0	95	96	1.0	70 - 130	20	
cis-1,2-Dichloroethene	ND	5.0	112	105	6.5	107	113	5.5	70 - 130	20	
cis-1,3-Dichloropropene	ND	5.0	105	105	0.0	94	96	2.1	70 - 130	20	
Dibromochloromethane	ND	3.0	98	99	1.0	91	95	4.3	70 - 130	20	
Dibromomethane	ND	5.0	110	109	0.9	100	103	3.0	70 - 130	20	
Dichlorodifluoromethane	ND	5.0	106	106	0.0	101	105	3.9	70 - 130	20	
Diethyl ether	ND	5.0	101	101	0.0	98	102	4.0	70 - 130	20	
Ethyl tert-butyl ether	ND	5.0	102	102	0.0	96	99	3.1	70 - 130	20	
Ethylbenzene	ND	1.0	104	103	1.0	95	97	2.1	70 - 130	20	
Hexachlorobutadiene	ND	5.0	103	102	1.0	75	61	20.6	70 - 130	20	m,r
Isopropylbenzene	ND	1.0	110	108	1.8	113	112	0.9	70 - 130	20	
m&p-Xylene	ND	2.0	101	100	1.0	84	86	2.4	70 - 130	20	
Methyl ethyl ketone	ND	5.0	98	101	3.0	74	73	1.4	70 - 130	20	
Methyl t-butyl ether (MTBE)	ND	1.0	103	103	0.0	97	100	3.0	70 - 130	20	
Methylene chloride	ND	5.0	96	94	2.1	91	94	3.2	70 - 130	20	

QA/QC Data

SDG I.D.: GCT22559

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Naphthalene	ND	5.0	113	111	1.8	14	12	15.4	70 - 130	20	m
n-Butylbenzene	ND	1.0	110	109	0.9	71	68	4.3	70 - 130	20	m
n-Propylbenzene	ND	1.0	109	105	3.7	109	108	0.9	70 - 130	20	
o-Xylene	ND	2.0	105	104	1.0	91	93	2.2	70 - 130	20	
p-Isopropyltoluene	ND	1.0	108	107	0.9	85	83	2.4	70 - 130	20	
sec-Butylbenzene	ND	1.0	109	109	0.0	102	96	6.1	70 - 130	20	
Styrene	ND	5.0	103	103	0.0	84	85	1.2	70 - 130	20	
tert-amyl methyl ether	ND	5.0	101	101	0.0	95	97	2.1	70 - 130	20	
tert-Butylbenzene	ND	1.0	109	108	0.9	111	106	4.6	70 - 130	20	
Tetrachloroethene	ND	5.0	100	102	2.0	93	93	0.0	70 - 130	20	
Tetrahydrofuran (THF)	ND	5.0	97	98	1.0	84	88	4.7	70 - 130	20	
Toluene	ND	1.0	106	106	0.0	98	100	2.0	70 - 130	20	
trans-1,2-Dichloroethene	ND	5.0	105	104	1.0	100	102	2.0	70 - 130	20	
trans-1,3-Dichloropropene	ND	5.0	101	101	0.0	86	89	3.4	70 - 130	20	
trans-1,4-dichloro-2-butene	ND	5.0	98	93	5.2	86	90	4.5	70 - 130	20	
Trichloroethene	ND	5.0	104	106	1.9	95	98	3.1	70 - 130	20	
Trichlorofluoromethane	ND	5.0	110	112	1.8	108	110	1.8	70 - 130	20	
Trichlorotrifluoroethane	ND	5.0	104	106	1.9	101	102	1.0	70 - 130	20	
Vinyl chloride	ND	5.0	103	102	1.0	98	101	3.0	70 - 130	20	
% 1,2-dichlorobenzene-d4	100	%	101	101	0.0	100	100	0.0	70 - 130	20	
% Bromofluorobenzene	98	%	103	102	1.0	96	95	1.0	70 - 130	20	
% Dibromofluoromethane	98	%	96	97	1.0	99	96	3.1	70 - 130	20	
% Toluene-d8	99	%	104	104	0.0	101	102	1.0	70 - 130	20	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 783656H (ug/kg), QC Sample No: CT22604 50X (CT22562 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	96	93	3.2	83	87	4.7	70 - 130	20	
1,1,1-Trichloroethane	ND	250	101	97	4.0	95	99	4.1	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	250	108	106	1.9	105	107	1.9	70 - 130	20	
1,1,2-Trichloroethane	ND	250	108	104	3.8	107	105	1.9	70 - 130	20	
1,1-Dichloroethane	ND	250	103	98	5.0	102	102	0.0	70 - 130	20	
1,1-Dichloroethene	ND	250	63	63	0.0	69	71	2.9	70 - 130	20	l,m
1,1-Dichloropropene	ND	250	109	105	3.7	110	108	1.8	70 - 130	20	
1,2,3-Trichlorobenzene	ND	250	110	108	1.8	106	106	0.0	70 - 130	20	
1,2,3-Trichloropropane	ND	250	105	104	1.0	105	104	1.0	70 - 130	20	
1,2,4-Trichlorobenzene	ND	250	109	109	0.0	106	104	1.9	70 - 130	20	
1,2,4-Trimethylbenzene	ND	250	109	107	1.9	110	109	0.9	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	250	101	96	5.1	80	88	9.5	70 - 130	20	
1,2-Dibromoethane	ND	250	105	102	2.9	102	100	2.0	70 - 130	20	
1,2-Dichlorobenzene	ND	250	104	104	0.0	105	105	0.0	70 - 130	20	
1,2-Dichloroethane	ND	250	102	100	2.0	101	101	0.0	70 - 130	20	
1,2-Dichloropropane	ND	250	106	101	4.8	105	103	1.9	70 - 130	20	
1,3,5-Trimethylbenzene	ND	250	109	106	2.8	109	109	0.0	70 - 130	20	
1,3-Dichlorobenzene	ND	250	108	107	0.9	108	107	0.9	70 - 130	20	
1,3-Dichloropropane	ND	250	107	103	3.8	105	105	0.0	70 - 130	20	
1,4-Dichlorobenzene	ND	250	105	104	1.0	103	102	1.0	70 - 130	20	
1,4-dioxane	ND	5000	93	97	4.2	97	93	4.2	70 - 130	20	
2,2-Dichloropropane	ND	250	96	93	3.2	77	85	9.9	70 - 130	20	
2-Chlorotoluene	ND	250	110	108	1.8	110	111	0.9	70 - 130	20	
2-Hexanone	ND	1300	82	78	5.0	79	78	1.3	70 - 130	20	
2-Isopropyltoluene	ND	250	111	109	1.8	111	112	0.9	70 - 130	20	

QA/QC Data

SDG I.D.: GCT22559

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chlorotoluene	ND	250	108	107	0.9	110	111	0.9	70 - 130	20	
4-Methyl-2-pentanone	ND	1300	92	88	4.4	87	87	0.0	70 - 130	20	
Acetone	ND	500	62	61	1.6	65	63	3.1	70 - 130	20	I,m
Acrylonitrile	ND	250	96	90	6.5	91	90	1.1	70 - 130	20	
Benzene	ND	250	106	103	2.9	107	106	0.9	70 - 130	20	
Bromobenzene	ND	250	107	105	1.9	106	107	0.9	70 - 130	20	
Bromochloromethane	ND	250	107	101	5.8	107	107	0.0	70 - 130	20	
Bromodichloromethane	ND	250	102	97	5.0	92	94	2.2	70 - 130	20	
Bromoform	ND	250	82	78	5.0	64	69	7.5	70 - 130	20	m
Bromomethane	ND	250	59	56	5.2	59	59	0.0	70 - 130	20	I,m
Carbon Disulfide	ND	250	65	65	0.0	66	72	8.7	70 - 130	20	I,m
Carbon tetrachloride	ND	250	87	85	2.3	69	76	9.7	70 - 130	20	m
Chlorobenzene	ND	250	103	101	2.0	103	102	1.0	70 - 130	20	
Chloroethane	ND	250	42	39	7.4	43	43	0.0	70 - 130	20	I,m
Chloroform	ND	250	109	104	4.7	108	108	0.0	70 - 130	20	
Chloromethane	ND	250	97	92	5.3	96	96	0.0	70 - 130	20	
cis-1,2-Dichloroethene	ND	250	110	100	9.5	116	107	8.1	70 - 130	20	
cis-1,3-Dichloropropene	ND	250	102	99	3.0	93	96	3.2	70 - 130	20	
Dibromochloromethane	ND	150	93	91	2.2	80	83	3.7	70 - 130	20	
Dibromomethane	ND	250	103	101	2.0	102	101	1.0	70 - 130	20	
Dichlorodifluoromethane	ND	250	106	100	5.8	104	103	1.0	70 - 130	20	
Diethyl ether	ND	250	45	45	0.0	48	52	8.0	70 - 130	20	I,m
Ethyl tert-butyl ether	ND	250	100	96	4.1	92	95	3.2	70 - 130	20	
Ethylbenzene	ND	250	106	103	2.9	106	105	0.9	70 - 130	20	
Hexachlorobutadiene	ND	250	109	107	1.9	107	109	1.9	70 - 130	20	
Isopropylbenzene	ND	250	111	108	2.7	111	111	0.0	70 - 130	20	
m&p-Xylene	ND	250	102	100	2.0	104	101	2.9	70 - 130	20	
Methyl ethyl ketone	ND	250	91	86	5.6	85	84	1.2	70 - 130	20	
Methyl t-butyl ether (MTBE)	ND	250	98	94	4.2	94	93	1.1	70 - 130	20	
Methylene chloride	ND	250	85	82	3.6	85	86	1.2	70 - 130	20	
Naphthalene	ND	250	109	108	0.9	107	108	0.9	70 - 130	20	
n-Butylbenzene	ND	250	117	114	2.6	118	115	2.6	70 - 130	20	
n-Propylbenzene	ND	250	111	109	1.8	111	112	0.9	70 - 130	20	
o-Xylene	ND	250	107	103	3.8	106	105	0.9	70 - 130	20	
p-Isopropyltoluene	ND	250	112	109	2.7	112	111	0.9	70 - 130	20	
sec-Butylbenzene	ND	250	111	109	1.8	112	112	0.0	70 - 130	20	
Styrene	ND	250	104	103	1.0	105	104	1.0	70 - 130	20	
tert-amyl methyl ether	ND	250	100	98	2.0	94	94	0.0	70 - 130	20	
tert-Butylbenzene	ND	250	108	106	1.9	109	110	0.9	70 - 130	20	
Tetrachloroethene	ND	250	103	101	2.0	106	102	3.8	70 - 130	20	
Tetrahydrofuran (THF)	ND	250	97	91	6.4	93	92	1.1	70 - 130	20	
Toluene	ND	250	107	104	2.8	108	104	3.8	70 - 130	20	
trans-1,2-Dichloroethene	ND	250	100	96	4.1	101	101	0.0	70 - 130	20	
trans-1,3-Dichloropropene	ND	250	97	94	3.1	85	89	4.6	70 - 130	20	
trans-1,4-dichloro-2-butene	ND	250	90	85	5.7	69	76	9.7	70 - 130	20	m
Trichloroethene	ND	250	100	98	2.0	102	99	3.0	70 - 130	20	
Trichlorofluoromethane	ND	250	50	49	2.0	52	53	1.9	70 - 130	20	I,m
Trichlorotrifluoroethane	ND	250	73	73	0.0	78	85	8.6	70 - 130	20	
Vinyl chloride	ND	250	97	92	5.3	96	96	0.0	70 - 130	20	
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0	100	100	0.0	70 - 130	20	
% Bromofluorobenzene	98	%	102	101	1.0	102	101	1.0	70 - 130	20	
% Dibromofluoromethane	93	%	95	93	2.1	94	94	0.0	70 - 130	20	
% Toluene-d8	99	%	104	103	1.0	103	103	0.0	70 - 130	20	

QA/QC Data

SDG I.D.: GCT22559

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 783913H (ug/kg), QC Sample No: CT23003 50X (CT22559 (50X) , CT22560 (50X))

Volatiles - Soil (High Level)

1,2,3-Trichlorobenzene	ND	250	108	104	3.8	104	105	1.0	70 - 130	20
1,2,3-Trichloropropane	ND	250	101	101	0.0	99	100	1.0	70 - 130	20
1,2,4-Trichlorobenzene	ND	250	108	103	4.7	106	102	3.8	70 - 130	20
1,2,4-Trimethylbenzene	ND	250	109	105	3.7	108	107	0.9	70 - 130	20
1,2-Dichlorobenzene	ND	250	105	103	1.9	102	102	0.0	70 - 130	20
1,3,5-Trimethylbenzene	ND	250	107	105	1.9	106	106	0.0	70 - 130	20
1,3-Dichlorobenzene	ND	250	108	105	2.8	105	104	1.0	70 - 130	20
1,4-Dichlorobenzene	ND	250	103	101	2.0	101	101	0.0	70 - 130	20
2-Chlorotoluene	ND	250	109	108	0.9	108	108	0.0	70 - 130	20
2-Isopropyltoluene	ND	250	109	108	0.9	107	109	1.9	70 - 130	20
4-Chlorotoluene	ND	250	110	107	2.8	107	108	0.9	70 - 130	20
Bromobenzene	ND	250	105	103	1.9	104	103	1.0	70 - 130	20
Hexachlorobutadiene	ND	250	106	102	3.8	105	106	0.9	70 - 130	20
Isopropylbenzene	ND	250	107	105	1.9	108	109	0.9	70 - 130	20
Naphthalene	ND	250	106	105	0.9	107	109	1.9	70 - 130	20
n-Butylbenzene	ND	250	115	112	2.6	115	113	1.8	70 - 130	20
n-Propylbenzene	ND	250	108	106	1.9	109	108	0.9	70 - 130	20
p-Isopropyltoluene	ND	250	110	107	2.8	110	108	1.8	70 - 130	20
sec-Butylbenzene	ND	250	110	108	1.8	109	110	0.9	70 - 130	20
tert-Butylbenzene	ND	250	107	105	1.9	105	107	1.9	70 - 130	20
trans-1,4-dichloro-2-butene	ND	250	83	83	0.0	74	79	6.5	70 - 130	20
% 1,2-dichlorobenzene-d4	100	%	100	99	1.0	99	99	0.0	70 - 130	20
% Bromofluorobenzene	99	%	102	102	0.0	103	103	0.0	70 - 130	20
% Dibromofluoromethane	95	%	93	94	1.1	93	93	0.0	70 - 130	20
% Toluene-d8	100	%	105	103	1.9	104	105	1.0	70 - 130	20

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

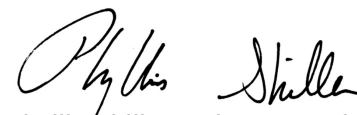
l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery 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
May 22, 2025

Thursday, May 22, 2025

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCT22559 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CT22559	\$8270-CTSMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1500	600	1000	1000	ug/Kg
CT22559	\$8270-CTSMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2100	600	1000	1000	ug/Kg
CT22559	\$8270-CTSMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1400	600	1000	1000	ug/Kg
CT22559	\$8270-CTSMR	Benz(a)anthracene	CT / RSR GA (mg/kg) / Semivolatiles	1400	600	1000	1000	ug/Kg
CT22559	\$8270-CTSMR	Benzo(a)pyrene	CT / RSR GA (mg/kg) / Semivolatiles	1500	600	1000	1000	ug/Kg
CT22559	\$8270-CTSMR	Benzo(b)fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	2100	600	1000	1000	ug/Kg
CT22559	\$8270-CTSMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1600	600	1000	1000	ug/Kg
CT22559	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	580	320	500	500	mg/Kg
CT22559	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GA (mg/kg) / Pesticides/TPH	580	320	500	500	mg/Kg
CT22559	\$PEST_SMR	Chlordane	CT / RSR GA (mg/kg) / Pesticides/TPH	320	43	66	66	ug/Kg
CT22559	\$PEST_SMR	Dieldrin	CT / RSR GA (mg/kg) / Pesticides/TPH	11	4.3	7	7	ug/Kg
CT22559	\$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	33	8.5	3	3	ug/Kg
CT22559	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	75	8.5	3	3	ug/Kg
CT22559	\$PEST_SMR	Chlordane	CT / RSR GA,GAA (mg/kg) / APS Organics	320	43	66	66	ug/Kg
CT22559	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	360	43	3	3	ug/Kg
CT22559	TCLP-PB	TCLP Lead	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.106	0.010	0.015	0.015	mg/L
CT22560	\$8270-CTSMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	1800	600	1000	1000	ug/Kg
CT22560	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	740	640	500	500	mg/Kg
CT22560	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GA (mg/kg) / Pesticides/TPH	740	640	500	500	mg/Kg
CT22560	\$PEST_SMR	Chlordane	CT / RSR GA (mg/kg) / Pesticides/TPH	280	42	66	66	ug/Kg
CT22560	\$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	27	8.4	3	3	ug/Kg
CT22560	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	7.9	1.7	3	3	ug/Kg
CT22560	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	52	8.4	3	3	ug/Kg
CT22560	\$PEST_SMR	Chlordane	CT / RSR GA,GAA (mg/kg) / APS Organics	280	42	66	66	ug/Kg
CT22560	TCLP-PB	TCLP Lead	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.016	0.010	0.015	0.015	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.



Bureau of Water Protection and Land Reuse
Remediation Division

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name Phoenix Environmental Labs, Inc.	Client Name Fuss & O'Neill, Inc.
Project Location RIVERFRONT RECAPTURE	Project No.
Sampling Date(s) 5/8/2025	Laboratory Sample ID(s): CT22559-CT22562

LIST RCP METHODS USED (e.g., 8260,8270, etc.) 1311/1312, 6010, 7470/7471, 8081, 8082, 8151, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method-specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	VPH and EPH methods only: Was the VPH or EPH method conducted without significant modifications (see respective RCPs)	☐ Yes ☐ No ☒ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature ($\leq 6^{\circ}\text{C}$)? <i>If samples were received by the laboratory on the same day of collection and were stored and transported to the laboratory on ice, cooler temperatures above 6°C are acceptable.</i>	☒ Yes ☐ No ☐ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: Herbicide Narration, SVOA Narration, VOA Narration.	☐ Yes ☒ No
5	Were reporting limits / limits of quantitation specified or referenced on the chain-of-custody?	☒ Yes ☐ No
5a	Were these reporting limits / limits of quantitation met?	☒ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set for applicable RCPs?	☒ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered, and all questions must be answered.

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.

Authorized Signature:

Position: Assistant Lab Director

Printed Name:

Greg Lawrence

Date: Thursday, May 22, 2025

Name of Laboratory

Phoenix Environmental Laboratory, Inc.

This certification form is to be used for RCP methods only.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 22, 2025

SDG I.D.: GCT22559

SDG Comments

Metals Analysis:

The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Copper, Nickel, Thallium, Vanadium, Zinc.

Cyanide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

LACHAT 05/14/25-1

Jason White, Greg Danielewski, Chemist 05/14/25

CT22559

The samples were distilled in accordance with the method.

The initial calibration met criteria.

The calibration check standards (ICV,CCV) met criteria.

The initial and continuing calibration blanks (ICB,CCB) met criteria.

The method blank, laboratory control sample (LCS), and matrix spike (MS) were distilled with the samples.

LACHAT 05/16/25-1

Talita Rocha Flausino, Greg Danielewski, Chemist 05/16/25

CT22560

The samples were distilled in accordance with the method.

The initial calibration met criteria.

The calibration check standards (ICV,CCV) met criteria.

The initial and continuing calibration blanks (ICB,CCB) met criteria.

The method blank, laboratory control sample (LCS), and matrix spike (MS) were distilled with the samples.

QC (Batch Specific):

Batch 784318 (CT21512)

CT22559

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional: MS acceptance range is 75-125%.

Batch 784715 (CT22604)

CT22560

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional: MS acceptance range is 75-125%.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID84 05/19/25-1

Jeff Bucko, Chemist 05/19/25

CT22560 (10X)

The initial calibration (ET_519I) RSD for the compound list was less than 30% except for the following compounds: None.



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RCP Certification Report

May 22, 2025

SDG I.D.: GCT22559

ETPH Narration

As per section 7.2.3, a discrimination check standard was run (519A028_2) and contained the following outliers: C36 68.6%L (20%)

The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CT22560

Preceding CC 519A028 - None.

Succeeding CC 519A038 - % COD (surr) -61%L (30%)

AU-FID84 05/21/25-1

Jeff Bucko, Chemist 05/21/25

CT22559 (5X)

The initial calibration (ET_519I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (521A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 784798 (CT21577)

CT22559, CT22560

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Herbicide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 783987 (Samples: CT22559, CT22560): -----

The LCS/LCSD RPD exceeds the method criteria for one analyte and a surrogate, but this analyte was not reported in the sample(s) so no variability is suspected. (2,4-DB, % DCAA (Surrogate Rec) (Confirmation))

Instrument:

AU-ECD12 05/12/25-1

Jeff Bucko, Chemist 05/12/25

CT22559 (10X), CT22560 (10X)

The initial calibration (HRB417AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (HRB417BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD2 05/12/25-1

Jeff Bucko, Chemist 05/12/25

CT22559 (10X), CT22560 (10X)

The initial calibration (HRB306AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (HRB306BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CT22559, CT22560

Preceding CC 512A086 - Dinoseb 50%H (20%)

Succeeding CC 512A099 - Dinoseb 33%H (20%)

QC (Batch Specific):



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RCP Certification Report

May 22, 2025

SDG I.D.: GCT22559

Herbicide Narration

Batch 783884 (CT21526)

CT22559, CT22560

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

Batch 783987 (CT21520)

CT22559, CT22560

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: % DCAA (Surrogate Rec) (Confirmation)(38.0%), 2,4-DB(33.0%)

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

PSA 05/09/25 06:24

John Maslak, Zade-Anne Taylor, Chemist 05/09/25

CT22559, CT22560

The initial calibration met criteria and the linear range is defined daily by the calibration range.

The Low-Level Calibration Verification (LLCV) met criteria.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 783515 (CT22565)

CT22559, CT22560

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

Batch 783530 (CT22902)

CT22559

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

Batch 783531 (CT22601)



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Certification Report

May 22, 2025

SDG I.D.: GCT22559

Mercury Narration

CT22560

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS-4 05/09/25 11:34

Cindy Pearce, Tina Hall, Chemist 05/09/25

CT22559, CT22560

The initial calibration met criteria and the linear range is defined daily by the calibration range.

The Low-Level Calibration Verification (LLCV) met criteria.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.

The following Spectral Interference Check compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 783520 (CT22902)

CT22560

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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%.

Batch 783640 (CT22483)

CT22559, CT22560

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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%.

QC (Site Specific):

Batch 783521 (CT22559)

CT22559

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.



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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



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ICP Metals Narration

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%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD29 05/13/25-1 Saadia Chudary, Chemist 05/13/25

CT22559 (10X), CT22560 (10X)

The initial calibration (PC0404AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0404BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds: None.

QC (Site Specific):

Batch 783953 (CT22559)

CT22559, CT22560

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

This batch consists of a Blank, LCS, MS and MSD.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD33 05/15/25-1 Adam Werner, Chemist 05/15/25

CT22559 (10X), CT22560 (10X)

The initial calibration (PS0411AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0411BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds: None.

AU-ECD4 05/19/25-1

Adam Werner, Chemist 05/19/25

CT22559 (2X, 10X), CT22560 (2X)

The initial calibration (PS0501AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0501BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CT22559

Preceding CC 519B050 - Endrin Ketone 24%H (20%)

Succeeding CC 519B064 - Endrin Ketone 25%H (20%)

Samples: CT22560



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PEST Narration

Preceding CC 519B064 - Endrin Ketone 25%H (20%)
Succeeding CC 519B073 - Endrin Ketone 36%H (20%)

QC (Batch Specific):

Batch 784378 (CT23775)

CT22559, CT22560

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

Batch 784797 (CT29605)

CT22559, CT22560

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 784639 (Samples: CT22559, CT22560): -----

Several QC recoveries are below the method criteria. A low bias for this analyte is likely. (Hexachlorocyclopentadiene)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific MS/MSD is below the method criteria, therefore a low bias for these analytes is likely. (3,3'-Dichlorobenzidine, Benzidine)

The LCS/LCSD recovery is acceptable. One analyte in the site specific MS/MSD is below the lower range, therefore a low bias for this analyte is possible. (Aniline)

The LCS/LCSD and site MS recovery is acceptable. One analyte in the site specific MSD is below the lower range, no significant bias is suspected. (Indeno(1,2,3-cd)pyrene)

The MS/MSD RPD exceeds the method criteria for one analyte, therefore there may be variability in the reported result. (Aniline)

Instrument:

CHEM29 05/15/25-2

Matt Richard, Chemist 05/15/25

CT22559 (1X), CT22560 (1X, 1000X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM29/29_SVFull_0512):



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SVOA Narration

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: % 2,4,6-Tribromophenol 0.045 (0.05), 2-Nitrophenol 0.046 (0.1), Hexachlorobenzene 0.082 (0.1)

Continuing Calibration Verification (CHEM29/0515_29-29_SVFull_0512):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 4-Nitrophenol 24%H (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.054 (0.1), Hexachlorobenzene 0.079 (0.1)

QC (Site Specific):

Batch 784639 (CT22560)

CT22559, CT22560

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: Hexachlorocyclopentadiene(31%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(<10%), Aniline(25%), Benzidine(<10%), Hexachlorocyclopentadiene(<10%)

All MSD recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(<10%), Aniline(35%), Benzidine(<10%), Hexachlorocyclopentadiene(<10%), Indeno(1,2,3-cd)pyrene(38%)

All MS/MSD RPDs were less than 30% with the following exceptions: Aniline(33.3%)

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 783656H: -----

Several QC recoveries are below the lower range. A low bias for this analyte is possible. (1,1-Dichloroethene, Carbon Disulfide)

The QC recoveries for one or more analytes is below the method criteria. A low bias for these analytes is possible. (Acetone, Bromomethane, Chloroethane, Diethyl ether, Trichlorofluoromethane)

Instrument:

CHEM31 05/08/25-2

Jane Li, Chemist 05/08/25

CT22559 (1X), CT22560 (1X), CT22561 (1X), CT22562 (50X)

Initial Calibration Evaluation (CHEM31/VT-050625):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2-Trichloroethane 0.180 (0.2)



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VOA Narration

Continuing Calibration Verification (CHEM31/0508_35-VT-050625):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2-Trichloroethane 0.197 (0.2)

CHEM31 05/09/25-1 Jane Li, Chemist 05/09/25

CT22559 (50X), CT22560 (50X)

Initial Calibration Evaluation (CHEM31/VT-050625):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

Continuing Calibration Verification (CHEM31/0509_02-VT-050625):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 783656 (CT22604) CHEM31 5/8/2025-2

CT22559(1X), CT22560(1X), CT22561(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 783656H (CT22604) CHEM31 5/8/2025-2

CT22562(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(63%), Acetone(62%), Bromomethane(59%), Carbon Disulfide(65%), Chloroethane(42%), Diethyl ether(45%), Trichlorofluoromethane(50%)
All LCSD recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(63%), Acetone(61%), Bromomethane(56%), Carbon Disulfide(65%), Chloroethane(39%), Diethyl ether(45%), Trichlorofluoromethane(49%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 783913H (CT23003) CHEM31 5/9/2025-1

CT22559(50X), CT22560(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration



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The samples were received at 12.1C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

