APPENDIX E

HISTORIC LAB REPORTS

SURFACE SOIL & FILL

1989 CRA
SITE INVESTIGATION REPORT

ADVANCED
ENVIRONMENTAL SERVICES INC.

PHASE II SITE INVESTIGATION

Report Prepared For

FEDCO AUTOMOTIVE

Donovan L. Klaaren
Project Manager

Paul T. McMahon
Technical Evaluation

August 30, 1989
AES Report EGT

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TCL VOLATILES

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID - / Sample Date-	10970 GRAB MW-1 SOIL 08/16/89	10971 GRAB MW-2 SOIL 08/16/89	10972 GRAB SS-1 SOIL 08/16/89
Chloromethane	8240	0.50		BQL *	BQL	BQL
Vinyl Chloride	"	"		BQL	BQL	BQL
Chloroethane	"	"		BQL	BQL	BQL
Bromomethane	"	"		BQL	BQL	BQL
2-Chloroethyl Vinyl Ether	"	"		BQL	BQL	BQL
Ethylbenzene	"	0.25		BQL	BQL	BQL
Methylene Chloride	"	"		BQL	0.61	BQL
Chlorobenzene	"	"		BQL	BQL	BQL
1,1-Dichloroethylene	"	"		BQL	BQL	BQL
1,1-Dichloroethane	"	"		BQL	BQL	BQL
trans-1,2-Dichloroethylene	"	"		BQL	BQL	BQL
Chloroform	"	"		BQL	BQL	BQL
1,2-Dichloroethane	"	"		BQL	BQL	BQL
1,1,1-Trichloroethane	"	"		BQL	BQL	BQL
Carbon Tetrachloride	"	"		BQL	BQL	BQL
Bromodichloromethane	"	"		BQL	BQL	BQL
1,2-Dichloropropane	"	"		BQL	BQL	BQL
trans-1,3-Dichloropropene	"	"		BQL	BQL	BQL
Trichloroethylene	"	"		BQL	15	BQL
Benzene	"	"		BQL	BQL	BQL
cis-1,3-Dichloropropene	"	"		BQL	BQL	BQL
1,1,2-Trichloroethane	"	"		BQL	BQL	BQL
Dibromochloromethane	"	"		BQL	BQL	BQL
Bromoform	"	"		BQL	BQL	BQL

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01 '89 12:02 AES

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TCL VOLATILES

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.-	10970	10971	10972
			Sample ID -	GRAB MW-1 SOIL	GRAB MW-2 SOIL	GRAB SS-1 SOIL
			Sample Date-	08/16/89	08/16/89	08/16/89
1,1,2,2-Tetrachloroethylen	8240	0.25		BQL *	BQL	BQL
1,1,2,2-Tetrachloroethane	"	"		BQL	BQL	BQL
Toluene	"	"		BQL	BQL	BQL
Acetone	"	2.5		BQL	BQL	BQL
Carbon Disulfide	"	0.25		BQL	BQL	BQL
2-Butanone	"	2.5		BQL	BQL	BQL
Vinyl Acetate	"	0.50		BQL	BQL	BQL
2-Hexanone	"	2.5		BQL	BQL	BQL
4-Methyl-2-Pentanone	"	"		BQL	BQL	BQL
Styrene	"	0.25		BQL	BQL	BQL
o-Xylene	"	"		BQL	BQL	BQL
m/p-Xylene	"	"		BQL	BQL	BQL

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01 '89 12:03 FES

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TCL VOLATILES

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.-	10973	10974
			Sample ID -	GRAB SS-2 SOIL	GRAB SS-3 SOIL
			Sample Date-	08/16/89	08/16/89
Chloromethane	8240	0.50		BQL *	BQL
Vinyl Chloride	"	"		BQL	BQL
Chloroethane	"	"		BQL	BQL
Bromomethane	"	"		BQL	BQL
2-Chloroethyl Vinyl Ether	"	"		BQL	BQL
Ethylbenzene	"	0.25		BQL	BQL
Methylene Chloride	"	"		BQL	BQL
Chlorobenzene	"	"		BQL	BQL
1,1-Dichloroethylene	"	"		BQL	BQL
1,1-Dichloroethane	"	"		BQL	BQL
trans-1,2-Dichloroethylene	"	"		BQL	BQL
Chloroform	"	"		BQL	BQL
1,2-Dichloroethane	"	"		BQL	BQL
1,1,1-Trichloroethane	"	"		BQL	BQL
Carbon Tetrachloride	"	"		BQL	BQL
Bromodichloromethane	"	"		BQL	BQL
1,2-Dichloropropane	"	"		BQL	BQL
trans-1,3-Dichloropropene	"	"		BQL	BQL
Trichloroethylene	"	"		BQL	0.32
Benzene	"	"		BQL	BQL
cis-1,3-Dichloropropene	"	"		BQL	BQL
1,1,2-Trichloroethane	"	"		BQL	BQL
Dibromochloromethane	"	"		BQL	BQL
Bromoform	"	"		BQL	BQL

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01 '89 12:03 AES P.25

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TCL VOLATILES

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID - / Sample Date-	10973 GRAB SS-2 SOIL 08/16/89	10974 GRAB SS-3 SOIL 08/16/89
1,1,2,2-Tetrachloroethylen	8240	0.25		BQL *	BQL
1,1,2,2-Tetrachloroethane	"	"		BQL	BQL
Toluene	"	"		BQL	BQL
Acetone	"	2.5		BQL	BQL
Carbon Disulfide	"	0.25		BQL	BQL
2-Butanone	"	2.5		BQL	BQL
Vinyl Acetate	"	0.50		BQL	BQL
2-Hexanone	"	2.5		BQL	BQL
4-Methyl-2-Pentanone	"	"		BQL	BQL
Styrene	"	0.25		BQL	BQL
o-Xylene	"	"		BQL	BQL
m/p-Xylene	"	"		BQL	BQL

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01 '89 12:04 AES

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TCL VOLATILES

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID - / Sample Date-	10975 GRAB SS-4 SOIL 08/16/89	10976 GRAB SS-5 SOIL 08/16/89
Chloromethane	8240	0.50		BQL *	BQL
Vinyl Chloride	"	"		BQL	BQL
Chloroethane	"	"		BQL	BQL
Bromomethane	"	"		BQL	BQL
2-Chloroethyl Vinyl Ether	"	"		BQL	BQL
Ethylbenzene	"	0.25		0.47	BQL
Methylene Chloride	"	"		BQL	BQL
Chlorobenzene	"	"		BQL	BQL
1,1-Dichloroethylene	"	"		BQL	BQL
1,1-Dichloroethane	"	"		BQL	BQL
trans-1,2-Dichloroethylene	"	"		BQL	BQL
Chloroform	"	"		BQL	BQL
1,2-Dichloroethane	"	"		BQL	BQL
1,1,1-Trichloroethane	"	"		BQL	BQL
Carbon Tetrachloride	"	"		BQL	BQL
Bromodichloromethane	"	"		BQL	BQL
1,2-Dichloropropane	"	"		BQL	BQL
trans-1,3-Dichloropropene	"	"		BQL	BQL
Trichloroethylene	"	"		0.35	BQL
Benzene	"	"		BQL	BQL
cis-1,3-Dichloropropene	"	"		BQL	BQL
1,1,2-Trichloroethane	"	"		BQL	BQL
Dibromochloromethane	"	"		BQL	BQL
Bromoform	"	"		BQL	BQL

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01 '89 12:05 AES

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TCL VOLATILES

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.-	10975	10976
			Sample ID -	GRAB SS-4 SOIL	GRAB SS-5 SOIL
			Sample Date-	08/16/89	08/16/89
1,1,2,2-Tetrachloroethylen	8240	0.25		BQL *	BQL
1,1,2,2-Tetrachloroethane	"	"		BQL	BQL
Toluene	"	"		0.46	0.29
Acetone	"	2.5		BQL	BQL
Carbon Disulfide	"	0.25		BQL	BQL
2-Butanone	"	2.5		BQL	BQL
Vinyl Acetate	"	0.50		BQL	BQL
2-Hexanone	"	2.5		BQL	BQL
4-Methyl-2-Pentanone	"	"		BQL	BQL
Styrene	"	0.25		5.6	BQL
o-Xylene	"	"		0.84	BQL
m/p-Xylene	"	"		0.50	BQL

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01, 89 12:55 AES

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TCL VOLATILES

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	ABS Lab No.-	10977	10978
			Sample ID -	GRAB SS-6 SOIL	GRAB SS-41 SOIL
			Sample Date-	08/16/89	08/16/89
Chloromethane	8240	0.50		BQL *	BQL
Vinyl Chloride	"	"		BQL	BQL
Chloroethane	"	"		BQL	BQL
Bromomethane	"	"		BQL	BQL
2-Chloroethyl Vinyl Ether	"	"		BQL	BQL
Ethylbenzene	"	0.25		BQL	BQL
Methylene Chloride	"	"		BQL	BQL
Chlorobenzene	"	"		BQL	BQL
1,1-Dichloroethylene	"	"		BQL	BQL
1,1-Dichloroethane	"	"		BQL	BQL
trans-1,2-Dichloroethylene	"	"		BQL	BQL
Chloroform	"	"		BQL	BQL
1,2-Dichloroethane	"	"		BQL	BQL
1,1,1-Trichloroethane	"	"		BQL	BQL
Carbon Tetrachloride	"	"		BQL	BQL
Bromodichloromethane	"	"		BQL	BQL
1,2-Dichloropropane	"	"		BQL	BQL
trans-1,3-Dichloropropene	"	"		BQL	BQL
Trichloroethylene	"	"		BQL	BQL
Benzene	"	"		BQL	BQL
cis-1,3-Dichloropropene	"	"		BQL	BQL
1,1,2-Trichloroethane	"	"		BQL	BQL
Dibromochloromethane	"	"		BQL	BQL
Bromoform	"	"		BQL	BQL

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01 '89 12:06 P.03

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TCL VOLATILES

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.-	10977	10978
			Sample ID -	GRAB SS-6 SOIL	GRAB SS-41 SOIL
			Sample Date-	08/16/89	08/16/89
1,1,2,2-Tetrachloroethylen	8240	0.25		BQL *	BQL
1,1,2,2-Tetrachloroethane	"	"		BQL	BQL
Toluene	"	"		0.47	BQL
Acetone	"	2.5		BQL	BQL
Carbon Disulfide	"	0.25		BQL	BQL
2-Butanone	"	2.5		BQL	BQL
Vinyl Acetate	"	0.50		BQL	BQL
2-Hexanone	"	2.5		BQL	BQL
4-Methyl-2-Pentanone	"	"		BQL	BQL
Styrene	"	0.25		BQL	BQL
o-Xylene	"	"		BQL	1.13
m/p-Xylene	"	"		BQL	0.47

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01 '89 12:07 AES

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TOTAL POLYCHLORINATED BIPHENYLS

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTOMOTIVE A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits		AES Lab No.-	10972	10973
				Sample ID -	SOIL SS-1	SOIL SS-2
			Sample Date-		08/16/89	08/16/89
PCBs 1254	8080	0.01			34.2	4.4

Wayne J. Juda
Organic Supervisor

SEP 01 '89 11:59 AES

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TOTAL POLYCHLORINATED BIPHENYLS

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTOMOTIVE A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits		AES Lab No.-	10974	10975
				Sample ID -	SOIL SS-3	SOIL SS-4
			Sample Date-		08/16/89	08/16/89
PCBs 1254	8080	0.01			BQL *	BQL

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01 '89 12:00 AES

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TOTAL POLYCHLORINATED BIPHENYLS

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTOMOTIVES A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits		AES Lab No.-	10976	10977
				Sample ID -	SS-5 SOIL	SS-6 SOIL
			Sample Date-		08/16/89	08/16/89
PCBs 1254	8080	0.01			BQL *	BQL

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 21 '89 12:00 AES

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TOTAL POLYCHLORINATED BIPHENYLS

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTOMOTIVE A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits		AES Lab No.-	10978	10979
				Sample ID -	SOIL SS-41	WATER TRIP BLANK
				Sample Date-	08/16/89	08/16/89
PCBs 1254	8080	0.01			BQL *	BQL

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01 '89 12:01 AES

ADVANCED ENVIRONMENTAL SERVICES, INC.
PARAMETER TRACEABILITY REPORT
GAS CHROMATOGRAPHY DEPARTMENT

AES JOB CODE 8GT

ANALYST	ANALYTICAL METHOD	SAMPLE CODE	DATE OF ANALYSIS	TIME OF ANALYSIS
Wayne Johnson	8080	10930 - 10979	August 21-24, 1989	15:00

ADVANCED ENVIRONMENTAL SERVICES, INC.
PARAMETER TRACEABILITY REPORT
GAS CHROMATOGRAPHY DEPARTMENT

AES JOB CODE EGT

ANALYST	ANALYTICAL METHOD	SAMPLE CODE	DATE OF ANALYSIS	TIME OF ANALYSIS
[signature]	8240	10971, 10979	8/21/89	1300 - 1500
[signature]	8240	10970, 10972-10975	8/22/89	800 - 1500
Patrick A. Farra	8240	10976 - 10978	8/22/89	1600 - 1830

SEP 01 '89 12:11 AES

CRA Consulting Engineers
CONESTOGA-ROVERS & ASSOCIATES
651 Colby Drive, Waterloo, Ontario Canada N2V 1C2

SHIPPED TO (Laboratory name): AES

CHAIN OF CUSTODY RECORD

PROJECT Nº: 3042

PROJECT NAME: Fedco

SAMPLER'S SIGNATURE: _____ (SIGN)

SEQ. Nº.	SAMPLE NR	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	Nº OF CONTAINERS	REMARKS
	MW-1	8/16/89	1130		Soil	2	PCB + Vol
	MW-2	8/16/89	1355		Soil	2	PCB + Vol
	SS-1	8/16/89	0845		Soil	2	PCB + Vol
	SS-2	8/16/89	0910		Soil	2	PCB + Vol
	SS-3	8/16/89	0920		Soil	2	PCB + Vol
	SS-4	8/16/89	0930		Soil	2	PCB + Vol
	SS-5	8/16/89	1330		Soil	2	PCB + Vol
	SS-6	8/16/89	1340		Soil	2	PCB + Vol
	SS-4	8/16/89	0930		Soil	2	PCB + Vol
	Trip Blank				Water	2	PCB + Vol

NOTE: Please homogenize all samples as they are composite samples

TOTAL NUMBER OF CONTAINERS: 20

ANTICIPATED CHEMICAL HAZARDS:

RELINQUISHED BY: [1] (SIGN)	DATE/TIME 8/16/89 1535	RECEIVED BY: ② (SIGN)
RELINQUISHED BY: [2] (SIGN)	DATE/TIME	RECEIVED BY: ③ (SIGN)
RELINQUISHED BY: [3] (SIGN)	DATE/TIME	RECEIVED BY: ④ (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

METHOD OF SHIPMENT:	SHIPPED BY:	RECEIVED FOR LABORATORY BY: (SIGN)	DATE/TIME
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN)	DATE/TIME

WHITE – CRA OFFICE COPY
YELLOW – RECEIVING LABORATORY COPY
PINK – CRA LABORATORY COPY
GOLDEN ROD – SHIPPERS

Nº 4465

2020 BE3
REMEDIAL INVESTIGATION/ ALTERNATIVES ANALYSIS REPORT

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-01
Lab Sample ID: 196293-07 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**10.0**	mg/Kg		12/27/2019 14:45
Barium	**140**	mg/Kg		12/27/2019 14:45
Beryllium	**0.647**	mg/Kg		12/27/2019 14:45
Cadmium	**1.99**	mg/Kg		12/27/2019 14:45
Chromium	**22.5**	mg/Kg		12/27/2019 14:45
Copper	**73.3**	mg/Kg		12/27/2019 14:45
Lead	**353**	mg/Kg		12/27/2019 14:45
Manganese	**337**	mg/Kg		12/27/2019 14:45
Nickel	**22.7**	mg/Kg		12/27/2019 14:45
Selenium	**0.727**	mg/Kg	J	12/27/2019 14:45
Silver	**0.472**	mg/Kg	J	12/27/2019 14:45
Zinc	**322**	mg/Kg		12/30/2020 17:53

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/26/2019
Data File: 191227C

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-01		
Lab Sample ID:	196293-07	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.206**	mg/Kg		12/26/2019 12:02

Method Reference(s): EPA 7471B
Preparation Date: 12/24/2019
Data File: Hg191226B

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-01		
Lab Sample ID:	196293-07	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0323	mg/Kg		12/27/2019 12:53
PCB-1221	< 0.0323	mg/Kg		12/27/2019 12:53
PCB-1232	< 0.0323	mg/Kg		12/27/2019 12:53
PCB-1242	< 0.0323	mg/Kg		12/27/2019 12:53
PCB-1248	< 0.0323	mg/Kg		12/27/2019 12:53
PCB-1254	< 0.0323	mg/Kg		12/27/2019 12:53
PCB-1260	< 0.0323	mg/Kg		12/27/2019 12:53
PCB-1262	< 0.0323	mg/Kg		12/27/2019 12:53
PCB-1268	< 0.0323	mg/Kg		12/27/2019 12:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**42.2**	18.3 - 89.6		12/27/2019 12:53

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/23/2019

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-01
Lab Sample ID: 196293-07 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**2.01**	ug/Kg	J	12/26/2019 17:07
4,4-DDE	**5.25**	ug/Kg		12/26/2019 17:07
4,4-DDT	**7.22**	ug/Kg		12/26/2019 17:07
Aldrin	< 3.23	ug/Kg		12/26/2019 17:07
alpha-BHC	< 3.23	ug/Kg		12/26/2019 17:07
beta-BHC	< 3.23	ug/Kg		12/26/2019 17:07
cis-Chlordane	**2.99**	ug/Kg	JP	12/26/2019 17:07
delta-BHC	< 3.23	ug/Kg		12/26/2019 17:07
Dieldrin	**2.07**	ug/Kg	J	12/26/2019 17:07
Endosulfan I	< 3.23	ug/Kg		12/26/2019 17:07
Endosulfan II	< 3.23	ug/Kg		12/26/2019 17:07
Endosulfan Sulfate	< 3.23	ug/Kg		12/26/2019 17:07
Endrin	< 3.23	ug/Kg		12/26/2019 17:07
Endrin Aldehyde	< 3.23	ug/Kg		12/26/2019 17:07
Endrin Ketone	< 3.23	ug/Kg		12/26/2019 17:07
gamma-BHC (Lindane)	**1.71**	ug/Kg	J	12/26/2019 17:07
Heptachlor	< 3.23	ug/Kg		12/26/2019 17:07
Heptachlor Epoxide	< 3.23	ug/Kg		12/26/2019 17:07
Methoxychlor	< 3.23	ug/Kg		12/26/2019 17:07
Toxaphene	< 32.3	ug/Kg		12/26/2019 17:07
trans-Chlordane	**1.80**	ug/Kg	J	12/26/2019 17:07

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-01
Lab Sample ID: 196293-07 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**27.7**	30.7 - 111	*	12/26/2019 17:07
Tetrachloro-m-xylene (1)	**57.2**	34.7 - 87.3		12/26/2019 17:07

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/23/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-01
Lab Sample ID: 196293-07 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 309	ug/Kg		12/25/2019 02:56
1,2,4,5-Tetrachlorobenzene	< 309	ug/Kg		12/25/2019 02:56
1,2,4-Trichlorobenzene	< 309	ug/Kg		12/25/2019 02:56
1,2-Dichlorobenzene	< 309	ug/Kg		12/25/2019 02:56
1,3-Dichlorobenzene	< 309	ug/Kg		12/25/2019 02:56
1,4-Dichlorobenzene	< 309	ug/Kg		12/25/2019 02:56
2,2-Oxybis (1-chloropropane)	< 309	ug/Kg		12/25/2019 02:56
2,3,4,6-Tetrachlorophenol	< 309	ug/Kg		12/25/2019 02:56
2,4,5-Trichlorophenol	< 309	ug/Kg		12/25/2019 02:56
2,4,6-Trichlorophenol	< 309	ug/Kg		12/25/2019 02:56
2,4-Dichlorophenol	< 309	ug/Kg		12/25/2019 02:56
2,4-Dimethylphenol	< 309	ug/Kg		12/25/2019 02:56
2,4-Dinitrophenol	< 1240	ug/Kg		12/25/2019 02:56
2,4-Dinitrotoluene	< 309	ug/Kg		12/25/2019 02:56
2,6-Dinitrotoluene	< 309	ug/Kg		12/25/2019 02:56
2-Chloronaphthalene	< 309	ug/Kg		12/25/2019 02:56
2-Chlorophenol	< 309	ug/Kg		12/25/2019 02:56
2-Methylnapthalene	< 309	ug/Kg		12/25/2019 02:56
2-Methylphenol	< 309	ug/Kg		12/25/2019 02:56
2-Nitroaniline	< 309	ug/Kg		12/25/2019 02:56
2-Nitrophenol	< 309	ug/Kg		12/25/2019 02:56
3&4-Methylphenol	< 309	ug/Kg		12/25/2019 02:56
3,3'-Dichlorobenzidine	< 309	ug/Kg		12/25/2019 02:56

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-01
Lab Sample ID: 196293-07 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

3-Nitroaniline	< 309	ug/Kg		12/25/2019 02:56
4,6-Dinitro-2-methylphenol	< 619	ug/Kg		12/25/2019 02:56
4-Bromophenyl phenyl ether	< 309	ug/Kg		12/25/2019 02:56
4-Chloro-3-methylphenol	< 309	ug/Kg		12/25/2019 02:56
4-Chloroaniline	< 309	ug/Kg		12/25/2019 02:56
4-Chlorophenyl phenyl ether	< 309	ug/Kg		12/25/2019 02:56
4-Nitroaniline	< 309	ug/Kg		12/25/2019 02:56
4-Nitrophenol	< 309	ug/Kg		12/25/2019 02:56
Acenaphthene	< 309	ug/Kg		12/25/2019 02:56
Acenaphthylene	< 309	ug/Kg		12/25/2019 02:56
Acetophenone	< 309	ug/Kg		12/25/2019 02:56
Anthracene	< 309	ug/Kg		12/25/2019 02:56
Atrazine	< 309	ug/Kg		12/25/2019 02:56
Benzaldehyde	< 309	ug/Kg		12/25/2019 02:56
Benzo (a) anthracene	**328**	ug/Kg		12/25/2019 02:56
Benzo (a) pyrene	**308**	ug/Kg	J	12/25/2019 02:56
Benzo (b) fluoranthene	**367**	ug/Kg		12/25/2019 02:56
Benzo (g,h,i) perylene	< 309	ug/Kg		12/25/2019 02:56
Benzo (k) fluoranthene	< 309	ug/Kg		12/25/2019 02:56
Bis (2-chloroethoxy) methane	< 309	ug/Kg		12/25/2019 02:56
Bis (2-chloroethyl) ether	< 309	ug/Kg		12/25/2019 02:56
Bis (2-ethylhexyl) phthalate	< 309	ug/Kg		12/25/2019 02:56
Butylbenzylphthalate	< 309	ug/Kg		12/25/2019 02:56
Caprolactam	< 309	ug/Kg		12/25/2019 02:56
Carbazole	< 309	ug/Kg		12/25/2019 02:56

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-01
Lab Sample ID: 196293-07 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chrysene	**319**	ug/Kg	12/25/2019	02:56
Dibenz (a,h) anthracene	< 309	ug/Kg	12/25/2019	02:56
Dibenzofuran	< 309	ug/Kg	12/25/2019	02:56
Diethyl phthalate	< 309	ug/Kg	12/25/2019	02:56
Dimethyl phthalate	< 309	ug/Kg	12/25/2019	02:56
Di-n-butyl phthalate	< 309	ug/Kg	12/25/2019	02:56
Di-n-octylphthalate	< 309	ug/Kg	12/25/2019	02:56
Fluoranthene	**627**	ug/Kg	12/25/2019	02:56
Fluorene	< 309	ug/Kg	12/25/2019	02:56
Hexachlorobenzene	< 309	ug/Kg	12/25/2019	02:56
Hexachlorobutadiene	< 309	ug/Kg	12/25/2019	02:56
Hexachlorocyclopentadiene	< 1240	ug/Kg	12/25/2019	02:56
Hexachloroethane	< 309	ug/Kg	12/25/2019	02:56
Indeno (1,2,3-cd) pyrene	< 309	ug/Kg	12/25/2019	02:56
Isophorone	< 309	ug/Kg	12/25/2019	02:56
Naphthalene	< 309	ug/Kg	12/25/2019	02:56
Nitrobenzene	< 309	ug/Kg	12/25/2019	02:56
N-Nitroso-di-n-propylamine	< 309	ug/Kg	12/25/2019	02:56
N-Nitrosodiphenylamine	< 309	ug/Kg	12/25/2019	02:56
Pentachlorophenol	< 619	ug/Kg	12/25/2019	02:56
Phenanthrene	**321**	ug/Kg	12/25/2019	02:56
Phenol	< 309	ug/Kg	12/25/2019	02:56
Pyrene	**392**	ug/Kg	12/25/2019	02:56

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-01
Lab Sample ID: 196293-07 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**70.6**	35.1 - 89.5		12/25/2019 02:56
2-Fluorobiphenyl	**69.5**	37.7 - 81.4		12/25/2019 02:56
2-Fluorophenol	**67.8**	40.2 - 77		12/25/2019 02:56
Nitrobenzene-d5	**63.0**	36.2 - 78.4		12/25/2019 02:56
Phenol-d5	**65.8**	41.2 - 77.1		12/25/2019 02:56
Terphenyl-d14	**66.3**	39.8 - 97.5		12/25/2019 02:56

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/23/2019
Data File: B43331.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-01		
Lab Sample ID:	196293-07	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.555	mg/Kg		12/30/2019

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 12/27/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-01		
Lab Sample ID:	196293-07	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**84.2**	%		12/24/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-01		
Lab Sample ID:	196293-07	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 30.9	ug/Kg		1/2/2020 13:48

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/23/2019
Data File: B43488.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-02		
Lab Sample ID:	196293-08	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**2.61**	mg/Kg		12/30/2020 17:57
Barium	**33.5**	mg/Kg		12/27/2019 14:49
Beryllium	< 0.319	mg/Kg		12/27/2019 14:49
Cadmium	**0.830**	mg/Kg		12/27/2019 14:49
Chromium	**16.1**	mg/Kg		12/27/2019 14:49
Copper	**41.4**	mg/Kg		12/27/2019 14:49
Lead	**50.5**	mg/Kg		12/27/2019 14:49
Manganese	**551**	mg/Kg		12/27/2019 14:49
Nickel	**15.5**	mg/Kg		12/27/2019 14:49
Selenium	< 1.28	mg/Kg		12/27/2019 14:49
Silver	**0.387**	mg/Kg	J	12/27/2019 14:49
Zinc	**469**	mg/Kg		12/30/2020 17:57

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/26/2019
Data File: 191230C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-02		
Lab Sample ID:	196293-08	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0222**	mg/Kg		12/26/2019 12:04

Method Reference(s): EPA 7471B
Preparation Date: 12/24/2019
Data File: Hg191226B

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-02		
Lab Sample ID:	196293-08	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0365	mg/Kg		12/27/2019 14:03
PCB-1221	< 0.0365	mg/Kg		12/27/2019 14:03
PCB-1232	< 0.0365	mg/Kg		12/27/2019 14:03
PCB-1242	< 0.0365	mg/Kg		12/27/2019 14:03
PCB-1248	< 0.0365	mg/Kg		12/27/2019 14:03
PCB-1254	< 0.0365	mg/Kg		12/27/2019 14:03
PCB-1260	< 0.0365	mg/Kg		12/27/2019 14:03
PCB-1262	< 0.0365	mg/Kg		12/27/2019 14:03
PCB-1268	< 0.0365	mg/Kg		12/27/2019 14:03

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**36.9**	18.3 - 89.6		12/27/2019 14:03

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-02
Lab Sample ID: 196293-08 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**1.99**	ug/Kg	JP	12/26/2019 17:26
4,4-DDE	< 3.65	ug/Kg		12/26/2019 17:26
4,4-DDT	**2.89**	ug/Kg	J	12/26/2019 17:26
Aldrin	< 3.65	ug/Kg		12/26/2019 17:26
alpha-BHC	< 3.65	ug/Kg		12/26/2019 17:26
beta-BHC	< 3.65	ug/Kg		12/26/2019 17:26
cis-Chlordane	< 3.65	ug/Kg		12/26/2019 17:26
delta-BHC	**2.10**	ug/Kg	J	12/26/2019 17:26
Dieldrin	< 3.65	ug/Kg		12/26/2019 17:26
Endosulfan I	< 3.65	ug/Kg		12/26/2019 17:26
Endosulfan II	< 3.65	ug/Kg		12/26/2019 17:26
Endosulfan Sulfate	**4.52**	ug/Kg		12/26/2019 17:26
Endrin	< 3.65	ug/Kg		12/26/2019 17:26
Endrin Aldehyde	**5.08**	ug/Kg		12/26/2019 17:26
Endrin Ketone	**2.46**	ug/Kg	JP	12/26/2019 17:26
gamma-BHC (Lindane)	**1.83**	ug/Kg	JP	12/26/2019 17:26
Heptachlor	< 3.65	ug/Kg		12/26/2019 17:26
Heptachlor Epoxide	< 3.65	ug/Kg		12/26/2019 17:26
Methoxychlor	**7.73**	ug/Kg		12/26/2019 17:26
Toxaphene	< 36.5	ug/Kg		12/26/2019 17:26
trans-Chlordane	**2.50**	ug/Kg	J	12/26/2019 17:26

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ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-02
Lab Sample ID: 196293-08 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**73.0**	30.7 - 111		12/26/2019 17:26
Tetrachloro-m-xylene (1)	**33.2**	34.7 - 87.3	*	12/26/2019 17:26

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/23/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-02
Lab Sample ID: 196293-08 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 718	ug/Kg		12/30/2019 18:14
1,2,4,5-Tetrachlorobenzene	< 718	ug/Kg		12/30/2019 18:14
1,2,4-Trichlorobenzene	< 718	ug/Kg		12/30/2019 18:14
1,2-Dichlorobenzene	< 718	ug/Kg		12/30/2019 18:14
1,3-Dichlorobenzene	< 718	ug/Kg		12/30/2019 18:14
1,4-Dichlorobenzene	< 718	ug/Kg		12/30/2019 18:14
2,2-Oxybis (1-chloropropane)	< 718	ug/Kg		12/30/2019 18:14
2,3,4,6-Tetrachlorophenol	< 718	ug/Kg		12/30/2019 18:14
2,4,5-Trichlorophenol	< 718	ug/Kg		12/30/2019 18:14
2,4,6-Trichlorophenol	< 718	ug/Kg		12/30/2019 18:14
2,4-Dichlorophenol	< 718	ug/Kg		12/30/2019 18:14
2,4-Dimethylphenol	< 718	ug/Kg		12/30/2019 18:14
2,4-Dinitrophenol	< 2870	ug/Kg		12/30/2019 18:14
2,4-Dinitrotoluene	< 718	ug/Kg		12/30/2019 18:14
2,6-Dinitrotoluene	< 718	ug/Kg		12/30/2019 18:14
2-Chloronaphthalene	< 718	ug/Kg		12/30/2019 18:14
2-Chlorophenol	< 718	ug/Kg		12/30/2019 18:14
2-Methylnapthalene	< 718	ug/Kg		12/30/2019 18:14
2-Methylphenol	< 718	ug/Kg		12/30/2019 18:14
2-Nitroaniline	< 718	ug/Kg		12/30/2019 18:14
2-Nitrophenol	< 718	ug/Kg		12/30/2019 18:14
3&4-Methylphenol	< 718	ug/Kg		12/30/2019 18:14
3,3'-Dichlorobenzidine	< 718	ug/Kg		12/30/2019 18:14

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-02
Lab Sample ID: 196293-08 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

3-Nitroaniline	< 718	ug/Kg	12/30/2019	18:14
4,6-Dinitro-2-methylphenol	< 1440	ug/Kg	12/30/2019	18:14
4-Bromophenyl phenyl ether	< 718	ug/Kg	12/30/2019	18:14
4-Chloro-3-methylphenol	< 718	ug/Kg	12/30/2019	18:14
4-Chloroaniline	< 718	ug/Kg	12/30/2019	18:14
4-Chlorophenyl phenyl ether	< 718	ug/Kg	12/30/2019	18:14
4-Nitroaniline	< 718	ug/Kg	12/30/2019	18:14
4-Nitrophenol	< 718	ug/Kg	12/30/2019	18:14
Acenaphthene	< 718	ug/Kg	12/30/2019	18:14
Acenaphthylene	< 718	ug/Kg	12/30/2019	18:14
Acetophenone	< 718	ug/Kg	12/30/2019	18:14
Anthracene	**1270**	ug/Kg	12/30/2019	18:14
Atrazine	< 718	ug/Kg	12/30/2019	18:14
Benzaldehyde	< 718	ug/Kg	12/30/2019	18:14
Benzo (a) anthracene	**6710**	ug/Kg	12/30/2019	18:14
Benzo (a) pyrene	**8350**	ug/Kg	12/30/2019	18:14
Benzo (b) fluoranthene	**9970**	ug/Kg	12/30/2019	18:14
Benzo (g,h,i) perylene	**6520**	ug/Kg	12/30/2019	18:14
Benzo (k) fluoranthene	**4240**	ug/Kg	12/30/2019	18:14
Bis (2-chloroethoxy) methane	< 718	ug/Kg	12/30/2019	18:14
Bis (2-chloroethyl) ether	< 718	ug/Kg	12/30/2019	18:14
Bis (2-ethylhexyl) phthalate	< 718	ug/Kg	12/30/2019	18:14
Butylbenzylphthalate	< 718	ug/Kg	12/30/2019	18:14
Caprolactam	< 718	ug/Kg	12/30/2019	18:14
Carbazole	**1950**	ug/Kg	12/30/2019	18:14

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-02
Lab Sample ID: 196293-08 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chrysene	**7310**	ug/Kg	12/30/2019	18:14
Dibenz (a,h) anthracene	**1990**	ug/Kg	12/30/2019	18:14
Dibenzofuran	< 718	ug/Kg	12/30/2019	18:14
Diethyl phthalate	< 718	ug/Kg	12/30/2019	18:14
Dimethyl phthalate	< 718	ug/Kg	12/30/2019	18:14
Di-n-butyl phthalate	< 718	ug/Kg	12/30/2019	18:14
Di-n-octylphthalate	< 718	ug/Kg	12/30/2019	18:14
Fluoranthene	**15600**	ug/Kg	12/30/2019	18:14
Fluorene	< 718	ug/Kg	12/30/2019	18:14
Hexachlorobenzene	< 718	ug/Kg	12/30/2019	18:14
Hexachlorobutadiene	< 718	ug/Kg	12/30/2019	18:14
Hexachlorocyclopentadiene	< 2870	ug/Kg	12/30/2019	18:14
Hexachloroethane	< 718	ug/Kg	12/30/2019	18:14
Indeno (1,2,3-cd) pyrene	**7980**	ug/Kg	12/30/2019	18:14
Isophorone	< 718	ug/Kg	12/30/2019	18:14
Naphthalene	< 718	ug/Kg	12/30/2019	18:14
Nitrobenzene	< 718	ug/Kg	12/30/2019	18:14
N-Nitroso-di-n-propylamine	< 718	ug/Kg	12/30/2019	18:14
N-Nitrosodiphenylamine	< 718	ug/Kg	12/30/2019	18:14
Pentachlorophenol	< 1440	ug/Kg	12/30/2019	18:14
Phenanthrene	**6350**	ug/Kg	12/30/2019	18:14
Phenol	< 718	ug/Kg	12/30/2019	18:14
Pyrene	**10700**	ug/Kg	12/30/2019	18:14

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-02
Lab Sample ID: 196293-08 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**32.9**	35.1 - 89.5	*	12/30/2019 18:14
2-Fluorobiphenyl	**34.3**	37.7 - 81.4	*	12/30/2019 18:14
2-Fluorophenol	**34.2**	40.2 - 77	*	12/30/2019 18:14
Nitrobenzene-d5	**33.0**	36.2 - 78.4	*	12/30/2019 18:14
Phenol-d5	**34.0**	41.2 - 77.1	*	12/30/2019 18:14
Terphenyl-d14	**33.6**	39.8 - 97.5	*	12/30/2019 18:14

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/23/2019
Data File: B43414.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-02		
Lab Sample ID:	196293-08	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.582	mg/Kg		12/30/2019

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-02		
Lab Sample ID:	196293-08	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**75.3**	%		12/24/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-02		
Lab Sample ID:	196293-08	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 179	ug/Kg		1/2/2020 13:59

Reporting limit elevated due to sample matrix

Method Reference(s): EPA 8270D SIM
EPA 3546

Preparation Date: 12/23/2019

Data File: B43489.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-03
Lab Sample ID: 196293-09 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**5.02**	mg/Kg		1/2/2020 09:36
Barium	**157**	mg/Kg		12/27/2019 14:53
Beryllium	< 0.585	mg/Kg		12/27/2019 14:53
Cadmium	**5.26**	mg/Kg		12/27/2019 14:53
Chromium	**68.3**	mg/Kg		12/27/2019 14:53
Copper	**243**	mg/Kg		12/27/2019 14:53
Lead	**442**	mg/Kg		12/27/2019 14:53
Manganese	**808**	mg/Kg		12/27/2019 14:53
Nickel	**61.9**	mg/Kg		12/27/2019 14:53
Selenium	**6.10**	mg/Kg		1/2/2020 09:36
Silver	**2.27**	mg/Kg		12/27/2019 14:53
Zinc	**1100**	mg/Kg		1/2/2020 09:36

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/26/2019
Data File: 200102A

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-03		
Lab Sample ID:	196293-09	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.104**	mg/Kg		12/26/2019 12:06

Method Reference(s): EPA 7471B
Preparation Date: 12/24/2019
Data File: Hg191226B

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-03		
Lab Sample ID:	196293-09	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0674	mg/Kg		12/26/2019 18:15
PCB-1221	< 0.0674	mg/Kg		12/26/2019 18:15
PCB-1232	< 0.0674	mg/Kg		12/26/2019 18:15
PCB-1242	< 0.0674	mg/Kg		12/26/2019 18:15
PCB-1248	< 0.0674	mg/Kg		12/26/2019 18:15
PCB-1254	< 0.0674	mg/Kg		12/26/2019 18:15
PCB-1260	< 0.0674	mg/Kg		12/26/2019 18:15
PCB-1262	< 0.0674	mg/Kg		12/26/2019 18:15
PCB-1268	< 0.0674	mg/Kg		12/26/2019 18:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**17.4**	18.3 - 89.6	*	12/26/2019 18:15

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-03
Lab Sample ID: 196293-09 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 6.74	ug/Kg		12/26/2019 17:44
4,4-DDE	< 6.74	ug/Kg		12/26/2019 17:44
4,4-DDT	< 6.74	ug/Kg		12/26/2019 17:44
Aldrin	< 6.74	ug/Kg		12/26/2019 17:44
alpha-BHC	< 6.74	ug/Kg		12/26/2019 17:44
beta-BHC	**3.66**	ug/Kg	JP	12/26/2019 17:44
cis-Chlordane	**3.74**	ug/Kg	JP	12/26/2019 17:44
delta-BHC	< 6.74	ug/Kg		12/26/2019 17:44
Dieldrin	< 6.74	ug/Kg		12/26/2019 17:44
Endosulfan I	< 6.74	ug/Kg		12/26/2019 17:44
Endosulfan II	< 6.74	ug/Kg		12/26/2019 17:44
Endosulfan Sulfate	**6.47**	ug/Kg	J	12/26/2019 17:44
Endrin	< 6.74	ug/Kg		12/26/2019 17:44
Endrin Aldehyde	**8.42**	ug/Kg		12/26/2019 17:44
Endrin Ketone	**8.12**	ug/Kg	P	12/26/2019 17:44
gamma-BHC (Lindane)	**8.99**	ug/Kg		12/26/2019 17:44
Heptachlor	< 6.74	ug/Kg		12/26/2019 17:44
Heptachlor Epoxide	< 6.74	ug/Kg		12/26/2019 17:44
Methoxychlor	**10.6**	ug/Kg		12/26/2019 17:44
Toxaphene	< 67.4	ug/Kg		12/26/2019 17:44
trans-Chlordane	< 6.74	ug/Kg		12/26/2019 17:44

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-03
Lab Sample ID: 196293-09 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**22.3**	30.7 - 111	*	12/26/2019 17:44
Tetrachloro-m-xylene (1)	**112**	34.7 - 87.3	*	12/26/2019 17:44

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-03
Lab Sample ID: 196293-09 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 1290	ug/Kg		12/30/2019 18:43
1,2,4,5-Tetrachlorobenzene	< 1290	ug/Kg		12/30/2019 18:43
1,2,4-Trichlorobenzene	< 1290	ug/Kg		12/30/2019 18:43
1,2-Dichlorobenzene	< 1290	ug/Kg		12/30/2019 18:43
1,3-Dichlorobenzene	< 1290	ug/Kg		12/30/2019 18:43
1,4-Dichlorobenzene	< 1290	ug/Kg		12/30/2019 18:43
2,2-Oxybis (1-chloropropane)	< 1290	ug/Kg		12/30/2019 18:43
2,3,4,6-Tetrachlorophenol	< 1290	ug/Kg		12/30/2019 18:43
2,4,5-Trichlorophenol	< 1290	ug/Kg		12/30/2019 18:43
2,4,6-Trichlorophenol	< 1290	ug/Kg		12/30/2019 18:43
2,4-Dichlorophenol	< 1290	ug/Kg		12/30/2019 18:43
2,4-Dimethylphenol	< 1290	ug/Kg		12/30/2019 18:43
2,4-Dinitrophenol	< 5160	ug/Kg		12/30/2019 18:43
2,4-Dinitrotoluene	< 1290	ug/Kg		12/30/2019 18:43
2,6-Dinitrotoluene	< 1290	ug/Kg		12/30/2019 18:43
2-Chloronaphthalene	< 1290	ug/Kg		12/30/2019 18:43
2-Chlorophenol	< 1290	ug/Kg		12/30/2019 18:43
2-Methylnapthalene	< 1290	ug/Kg		12/30/2019 18:43
2-Methylphenol	< 1290	ug/Kg		12/30/2019 18:43
2-Nitroaniline	< 1290	ug/Kg		12/30/2019 18:43
2-Nitrophenol	< 1290	ug/Kg		12/30/2019 18:43
3&4-Methylphenol	< 1290	ug/Kg		12/30/2019 18:43
3,3'-Dichlorobenzidine	< 1290	ug/Kg		12/30/2019 18:43

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-03
Lab Sample ID: 196293-09 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

3-Nitroaniline	< 1290	ug/Kg	12/30/2019	18:43
4,6-Dinitro-2-methylphenol	< 2580	ug/Kg	12/30/2019	18:43
4-Bromophenyl phenyl ether	< 1290	ug/Kg	12/30/2019	18:43
4-Chloro-3-methylphenol	< 1290	ug/Kg	12/30/2019	18:43
4-Chloroaniline	< 1290	ug/Kg	12/30/2019	18:43
4-Chlorophenyl phenyl ether	< 1290	ug/Kg	12/30/2019	18:43
4-Nitroaniline	< 1290	ug/Kg	12/30/2019	18:43
4-Nitrophenol	< 1290	ug/Kg	12/30/2019	18:43
Acenaphthene	< 1290	ug/Kg	12/30/2019	18:43
Acenaphthylene	< 1290	ug/Kg	12/30/2019	18:43
Acetophenone	**4920**	ug/Kg	12/30/2019	18:43
Anthracene	**2070**	ug/Kg	12/30/2019	18:43
Atrazine	< 1290	ug/Kg	12/30/2019	18:43
Benzaldehyde	**2680**	ug/Kg	1/3/2020	12:57
Benzo (a) anthracene	**14800**	ug/Kg	12/30/2019	18:43
Benzo (a) pyrene	**16800**	ug/Kg	12/30/2019	18:43
Benzo (b) fluoranthene	**21300**	ug/Kg	12/30/2019	18:43
Benzo (g,h,i) perylene	**13600**	ug/Kg	12/30/2019	18:43
Benzo (k) fluoranthene	**11300**	ug/Kg	12/30/2019	18:43
Bis (2-chloroethoxy) methane	< 1290	ug/Kg	12/30/2019	18:43
Bis (2-chloroethyl) ether	< 1290	ug/Kg	12/30/2019	18:43
Bis (2-ethylhexyl) phthalate	< 1290	ug/Kg	12/30/2019	18:43
Butylbenzylphthalate	< 1290	ug/Kg	12/30/2019	18:43
Caprolactam	< 1290	ug/Kg	12/30/2019	18:43
Carbazole	**4030**	ug/Kg	12/30/2019	18:43

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-03
Lab Sample ID: 196293-09 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chrysene	**17600**	ug/Kg		12/30/2019	18:43
Dibenz (a,h) anthracene	**4320**	ug/Kg		12/30/2019	18:43
Dibenzofuran	< 1290	ug/Kg		12/30/2019	18:43
Diethyl phthalate	< 1290	ug/Kg		12/30/2019	18:43
Dimethyl phthalate	< 1290	ug/Kg		12/30/2019	18:43
Di-n-butyl phthalate	< 1290	ug/Kg		12/30/2019	18:43
Di-n-octylphthalate	< 1290	ug/Kg		12/30/2019	18:43
Fluoranthene	**36300**	ug/Kg		12/30/2019	18:43
Fluorene	< 1290	ug/Kg		12/30/2019	18:43
Hexachlorobenzene	< 1290	ug/Kg		12/30/2019	18:43
Hexachlorobutadiene	< 1290	ug/Kg		12/30/2019	18:43
Hexachlorocyclopentadiene	< 5160	ug/Kg		12/30/2019	18:43
Hexachloroethane	< 1290	ug/Kg		12/30/2019	18:43
Indeno (1,2,3-cd) pyrene	**14300**	ug/Kg		12/30/2019	18:43
Isophorone	< 1290	ug/Kg		12/30/2019	18:43
Naphthalene	< 1290	ug/Kg		12/30/2019	18:43
Nitrobenzene	< 1290	ug/Kg		12/30/2019	18:43
N-Nitroso-di-n-propylamine	< 1290	ug/Kg		12/30/2019	18:43
N-Nitrosodiphenylamine	< 1290	ug/Kg		12/30/2019	18:43
Pentachlorophenol	< 2580	ug/Kg		12/30/2019	18:43
Phenanthrene	**11900**	ug/Kg		12/30/2019	18:43
Phenol	**776**	ug/Kg	J	12/30/2019	18:43
Pyrene	**24800**	ug/Kg		12/30/2019	18:43

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-03
Lab Sample ID: 196293-09 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**27.1**	35.1 - 89.5	*	12/30/2019 18:43
2-Fluorobiphenyl	**27.1**	37.7 - 81.4	*	12/30/2019 18:43
2-Fluorophenol	**26.9**	40.2 - 77	*	12/30/2019 18:43
Nitrobenzene-d5	**26.3**	36.2 - 78.4	*	12/30/2019 18:43
Phenol-d5	**27.2**	41.2 - 77.1	*	12/30/2019 18:43
Terphenyl-d14	**27.6**	39.8 - 97.5	*	12/30/2019 18:43

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/23/2019
Data File: B43514.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-03		
Lab Sample ID:	196293-09	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**0.952**	mg/Kg	J	12/30/2019

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 12/27/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-03		
Lab Sample ID:	196293-09	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**41.9**	%		12/24/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-03		
Lab Sample ID:	196293-09	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 64.5	ug/Kg		1/2/2020 14:10

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/23/2019
Data File: B43490.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-04
Lab Sample ID: 196293-10 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**6.21**	mg/Kg		12/27/2019 15:07
Barium	**69.0**	mg/Kg		12/27/2019 15:07
Beryllium	**0.463**	mg/Kg		12/27/2019 15:07
Cadmium	**1.76**	mg/Kg		12/27/2019 15:07
Chromium	**32.6**	mg/Kg		12/27/2019 15:07
Copper	**343**	mg/Kg		12/27/2019 15:07
Lead	**244**	mg/Kg		12/27/2019 15:07
Manganese	**464**	mg/Kg		12/27/2019 15:07
Nickel	**17.2**	mg/Kg		12/27/2019 15:07
Selenium	**0.683**	mg/Kg	J	12/30/2020 18:06
Silver	**0.798**	mg/Kg		12/27/2019 15:07
Zinc	**473**	mg/Kg		12/30/2020 18:06

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/26/2019
Data File: 191227C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-04		
Lab Sample ID:	196293-10	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.178**	mg/Kg		12/26/2019 12:08

Method Reference(s): EPA 7471B
Preparation Date: 12/24/2019
Data File: Hg191226B

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-04
Lab Sample ID: 196293-10 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0349	mg/Kg		12/27/2019 14:26
PCB-1221	< 0.0349	mg/Kg		12/27/2019 14:26
PCB-1232	< 0.0349	mg/Kg		12/27/2019 14:26
PCB-1242	< 0.0349	mg/Kg		12/27/2019 14:26
PCB-1248	< 0.0349	mg/Kg		12/27/2019 14:26
PCB-1254	< 0.0349	mg/Kg		12/27/2019 14:26
PCB-1260	< 0.0349	mg/Kg		12/27/2019 14:26
PCB-1262	< 0.0349	mg/Kg		12/27/2019 14:26
PCB-1268	< 0.0349	mg/Kg		12/27/2019 14:26

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**39.1**	18.3 - 89.6		12/27/2019 14:26

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-04
Lab Sample ID: 196293-10 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**6.55**	ug/Kg		12/26/2019 18:03
4,4-DDE	< 3.49	ug/Kg		12/26/2019 18:03
4,4-DDT	**3.93**	ug/Kg	P	12/26/2019 18:03
Aldrin	< 3.49	ug/Kg		12/26/2019 18:03
alpha-BHC	< 3.49	ug/Kg		12/26/2019 18:03
beta-BHC	**3.18**	ug/Kg	JP	12/26/2019 18:03
cis-Chlordane	**5.16**	ug/Kg	P	12/26/2019 18:03
delta-BHC	**4.28**	ug/Kg	P	12/26/2019 18:03
Dieldrin	< 3.49	ug/Kg		12/26/2019 18:03
Endosulfan I	< 3.49	ug/Kg		12/26/2019 18:03
Endosulfan II	< 3.49	ug/Kg		12/26/2019 18:03
Endosulfan Sulfate	**12.4**	ug/Kg		12/26/2019 18:03
Endrin	**3.19**	ug/Kg	JP	12/26/2019 18:03
Endrin Aldehyde	< 3.49	ug/Kg		12/26/2019 18:03
Endrin Ketone	**10.6**	ug/Kg	P	12/26/2019 18:03
gamma-BHC (Lindane)	**2.27**	ug/Kg	JP	12/26/2019 18:03
Heptachlor	**5.36**	ug/Kg		12/26/2019 18:03
Heptachlor Epoxide	< 3.49	ug/Kg		12/26/2019 18:03
Methoxychlor	**24.4**	ug/Kg		12/26/2019 18:03
Toxaphene	< 34.9	ug/Kg		12/26/2019 18:03
trans-Chlordane	**5.16**	ug/Kg	P	12/26/2019 18:03

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-04
Lab Sample ID: 196293-10 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**69.5**	30.7 - 111		12/26/2019 18:03
Tetrachloro-m-xylene (1)	**65.8**	34.7 - 87.3		12/26/2019 18:03

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-04
Lab Sample ID: 196293-10 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 1680	ug/Kg		12/30/2019 19:12
1,2,4,5-Tetrachlorobenzene	< 1680	ug/Kg		12/30/2019 19:12
1,2,4-Trichlorobenzene	< 1680	ug/Kg		12/30/2019 19:12
1,2-Dichlorobenzene	< 1680	ug/Kg		12/30/2019 19:12
1,3-Dichlorobenzene	< 1680	ug/Kg		12/30/2019 19:12
1,4-Dichlorobenzene	< 1680	ug/Kg		12/30/2019 19:12
2,2-Oxybis (1-chloropropane)	< 1680	ug/Kg		12/30/2019 19:12
2,3,4,6-Tetrachlorophenol	< 1680	ug/Kg		12/30/2019 19:12
2,4,5-Trichlorophenol	< 1680	ug/Kg		12/30/2019 19:12
2,4,6-Trichlorophenol	< 1680	ug/Kg		12/30/2019 19:12
2,4-Dichlorophenol	< 1680	ug/Kg		12/30/2019 19:12
2,4-Dimethylphenol	< 1680	ug/Kg		12/30/2019 19:12
2,4-Dinitrophenol	< 6710	ug/Kg		12/30/2019 19:12
2,4-Dinitrotoluene	< 1680	ug/Kg		12/30/2019 19:12
2,6-Dinitrotoluene	< 1680	ug/Kg		12/30/2019 19:12
2-Chloronaphthalene	< 1680	ug/Kg		12/30/2019 19:12
2-Chlorophenol	< 1680	ug/Kg		12/30/2019 19:12
2-Methylnapthalene	< 1680	ug/Kg		12/30/2019 19:12
2-Methylphenol	< 1680	ug/Kg		12/30/2019 19:12
2-Nitroaniline	< 1680	ug/Kg		12/30/2019 19:12
2-Nitrophenol	< 1680	ug/Kg		12/30/2019 19:12
3&4-Methylphenol	< 1680	ug/Kg		12/30/2019 19:12
3,3'-Dichlorobenzidine	< 1680	ug/Kg		12/30/2019 19:12

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-04
Lab Sample ID: 196293-10 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

3-Nitroaniline	< 1680	ug/Kg	12/30/2019	19:12
4,6-Dinitro-2-methylphenol	< 3360	ug/Kg	12/30/2019	19:12
4-Bromophenyl phenyl ether	< 1680	ug/Kg	12/30/2019	19:12
4-Chloro-3-methylphenol	< 1680	ug/Kg	12/30/2019	19:12
4-Chloroaniline	< 1680	ug/Kg	12/30/2019	19:12
4-Chlorophenyl phenyl ether	< 1680	ug/Kg	12/30/2019	19:12
4-Nitroaniline	< 1680	ug/Kg	12/30/2019	19:12
4-Nitrophenol	< 1680	ug/Kg	12/30/2019	19:12
Acenaphthene	< 1680	ug/Kg	12/30/2019	19:12
Acenaphthylene	< 1680	ug/Kg	12/30/2019	19:12
Acetophenone	< 1680	ug/Kg	12/30/2019	19:12
Anthracene	**1740**	ug/Kg	12/30/2019	19:12
Atrazine	< 1680	ug/Kg	12/30/2019	19:12
Benzaldehyde	< 1680	ug/Kg	12/30/2019	19:12
Benzo (a) anthracene	**9560**	ug/Kg	12/30/2019	19:12
Benzo (a) pyrene	**10900**	ug/Kg	12/30/2019	19:12
Benzo (b) fluoranthene	**12500**	ug/Kg	12/30/2019	19:12
Benzo (g,h,i) perylene	**9220**	ug/Kg	12/30/2019	19:12
Benzo (k) fluoranthene	**7490**	ug/Kg	12/30/2019	19:12
Bis (2-chloroethoxy) methane	< 1680	ug/Kg	12/30/2019	19:12
Bis (2-chloroethyl) ether	< 1680	ug/Kg	12/30/2019	19:12
Bis (2-ethylhexyl) phthalate	< 1680	ug/Kg	12/30/2019	19:12
Butylbenzylphthalate	< 1680	ug/Kg	12/30/2019	19:12
Caprolactam	< 1680	ug/Kg	12/30/2019	19:12
Carbazole	**1860**	ug/Kg	12/30/2019	19:12

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-04
Lab Sample ID: 196293-10 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Chrysene	**10400**	ug/Kg	12/30/2019	19:12
Dibenz (a,h) anthracene	**2610**	ug/Kg	12/30/2019	19:12
Dibenzofuran	< 1680	ug/Kg	12/30/2019	19:12
Diethyl phthalate	< 1680	ug/Kg	12/30/2019	19:12
Dimethyl phthalate	< 1680	ug/Kg	12/30/2019	19:12
Di-n-butyl phthalate	< 1680	ug/Kg	12/30/2019	19:12
Di-n-octylphthalate	< 1680	ug/Kg	12/30/2019	19:12
Fluoranthene	**21200**	ug/Kg	12/30/2019	19:12
Fluorene	< 1680	ug/Kg	12/30/2019	19:12
Hexachlorobenzene	< 1680	ug/Kg	12/30/2019	19:12
Hexachlorobutadiene	< 1680	ug/Kg	12/30/2019	19:12
Hexachlorocyclopentadiene	< 6710	ug/Kg	12/30/2019	19:12
Hexachloroethane	< 1680	ug/Kg	12/30/2019	19:12
Indeno (1,2,3-cd) pyrene	**11300**	ug/Kg	12/30/2019	19:12
Isophorone	< 1680	ug/Kg	12/30/2019	19:12
Naphthalene	< 1680	ug/Kg	12/30/2019	19:12
Nitrobenzene	< 1680	ug/Kg	12/30/2019	19:12
N-Nitroso-di-n-propylamine	< 1680	ug/Kg	12/30/2019	19:12
N-Nitrosodiphenylamine	< 1680	ug/Kg	12/30/2019	19:12
Pentachlorophenol	< 3360	ug/Kg	12/30/2019	19:12
Phenanthrene	**7700**	ug/Kg	12/30/2019	19:12
Phenol	< 1680	ug/Kg	12/30/2019	19:12
Pyrene	**14700**	ug/Kg	12/30/2019	19:12

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-04
Lab Sample ID: 196293-10 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**43.8**	35.1 - 89.5		12/30/2019 19:12
2-Fluorobiphenyl	**46.6**	37.7 - 81.4		12/30/2019 19:12
2-Fluorophenol	**46.0**	40.2 - 77		12/30/2019 19:12
Nitrobenzene-d5	**45.2**	36.2 - 78.4		12/30/2019 19:12
Phenol-d5	**46.6**	41.2 - 77.1		12/30/2019 19:12
Terphenyl-d14	**46.1**	39.8 - 97.5		12/30/2019 19:12

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/23/2019
Data File: B43416.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-04		
Lab Sample ID:	196293-10	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.608	mg/Kg		12/30/2019

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-04		
Lab Sample ID:	196293-10	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**81.4**	%		12/24/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-04		
Lab Sample ID:	196293-10	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 33.6	ug/Kg		1/2/2020 14:21

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/23/2019
Data File: B43491.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-05		
Lab Sample ID:	196293-11	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**5.81**	mg/Kg		12/27/2019 15:11
Barium	**112**	mg/Kg		12/27/2019 15:11
Beryllium	**0.758**	mg/Kg		12/27/2019 15:11
Cadmium	**2.22**	mg/Kg		12/27/2019 15:11
Chromium	**22.9**	mg/Kg		12/27/2019 15:11
Copper	**105**	mg/Kg		12/27/2019 15:11
Lead	**350**	mg/Kg		12/27/2019 15:11
Manganese	**786**	mg/Kg		1/2/2020 09:40
Nickel	**23.9**	mg/Kg		12/27/2019 15:11
Selenium	**0.984**	mg/Kg	J	12/27/2019 15:11
Silver	**1.40**	mg/Kg		12/27/2019 15:11
Zinc	**342**	mg/Kg		1/2/2020 09:40

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/26/2019
Data File: 191227C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-05		
Lab Sample ID:	196293-11	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.142**	mg/Kg		12/26/2019 12:10

Method Reference(s): EPA 7471B
Preparation Date: 12/24/2019
Data File: Hg191226B

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-05		
Lab Sample ID:	196293-11	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0358	mg/Kg		12/26/2019 19:01
PCB-1221	< 0.0358	mg/Kg		12/26/2019 19:01
PCB-1232	< 0.0358	mg/Kg		12/26/2019 19:01
PCB-1242	< 0.0358	mg/Kg		12/26/2019 19:01
PCB-1248	< 0.0358	mg/Kg		12/26/2019 19:01
PCB-1254	< 0.0358	mg/Kg		12/26/2019 19:01
PCB-1260	**0.0381**	mg/Kg		12/26/2019 19:01
PCB-1262	< 0.0358	mg/Kg		12/26/2019 19:01
PCB-1268	< 0.0358	mg/Kg		12/26/2019 19:01

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**42.7**	18.3 - 89.6		12/26/2019 19:01

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/23/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-05
Lab Sample ID: 196293-11 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**2.96**	ug/Kg	J	12/26/2019 18:22
4,4-DDE	**5.26**	ug/Kg		12/26/2019 18:22
4,4-DDT	**7.83**	ug/Kg	P	12/26/2019 18:22
Aldrin	< 3.58	ug/Kg		12/26/2019 18:22
alpha-BHC	< 3.58	ug/Kg		12/26/2019 18:22
beta-BHC	< 3.58	ug/Kg		12/26/2019 18:22
cis-Chlordane	< 3.58	ug/Kg		12/26/2019 18:22
delta-BHC	< 3.58	ug/Kg		12/26/2019 18:22
Dieldrin	< 3.58	ug/Kg		12/26/2019 18:22
Endosulfan I	< 3.58	ug/Kg		12/26/2019 18:22
Endosulfan II	< 3.58	ug/Kg		12/26/2019 18:22
Endosulfan Sulfate	< 3.58	ug/Kg		12/26/2019 18:22
Endrin	< 3.58	ug/Kg		12/26/2019 18:22
Endrin Aldehyde	**4.39**	ug/Kg		12/26/2019 18:22
Endrin Ketone	**4.94**	ug/Kg	P	12/26/2019 18:22
gamma-BHC (Lindane)	**2.80**	ug/Kg	JP	12/26/2019 18:22
Heptachlor	**2.78**	ug/Kg	J	12/26/2019 18:22
Heptachlor Epoxide	< 3.58	ug/Kg		12/26/2019 18:22
Methoxychlor	**3.58**	ug/Kg	P	12/26/2019 18:22
Toxaphene	< 35.8	ug/Kg		12/26/2019 18:22
trans-Chlordane	< 3.58	ug/Kg		12/26/2019 18:22

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-05
Lab Sample ID: 196293-11 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**37.5**	30.7 - 111		12/26/2019 18:22
Tetrachloro-m-xylene (1)	**55.9**	34.7 - 87.3		12/26/2019 18:22

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/23/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-05
Lab Sample ID: 196293-11 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 353	ug/Kg		12/25/2019 04:52
1,2,4,5-Tetrachlorobenzene	< 353	ug/Kg		12/25/2019 04:52
1,2,4-Trichlorobenzene	< 353	ug/Kg		12/25/2019 04:52
1,2-Dichlorobenzene	< 353	ug/Kg		12/25/2019 04:52
1,3-Dichlorobenzene	< 353	ug/Kg		12/25/2019 04:52
1,4-Dichlorobenzene	< 353	ug/Kg		12/25/2019 04:52
2,2-Oxybis (1-chloropropane)	< 353	ug/Kg		12/25/2019 04:52
2,3,4,6-Tetrachlorophenol	< 353	ug/Kg		12/25/2019 04:52
2,4,5-Trichlorophenol	< 353	ug/Kg		12/25/2019 04:52
2,4,6-Trichlorophenol	< 353	ug/Kg		12/25/2019 04:52
2,4-Dichlorophenol	< 353	ug/Kg		12/25/2019 04:52
2,4-Dimethylphenol	< 353	ug/Kg		12/25/2019 04:52
2,4-Dinitrophenol	< 1410	ug/Kg		12/25/2019 04:52
2,4-Dinitrotoluene	< 353	ug/Kg		12/25/2019 04:52
2,6-Dinitrotoluene	< 353	ug/Kg		12/25/2019 04:52
2-Chloronaphthalene	< 353	ug/Kg		12/25/2019 04:52
2-Chlorophenol	< 353	ug/Kg		12/25/2019 04:52
2-Methylnapthalene	**230**	ug/Kg	J	12/25/2019 04:52
2-Methylphenol	< 353	ug/Kg		12/25/2019 04:52
2-Nitroaniline	< 353	ug/Kg		12/25/2019 04:52
2-Nitrophenol	< 353	ug/Kg		12/25/2019 04:52
3&4-Methylphenol	< 353	ug/Kg		12/25/2019 04:52
3,3'-Dichlorobenzidine	< 353	ug/Kg		12/25/2019 04:52

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-05
Lab Sample ID: 196293-11 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

3-Nitroaniline	< 353	ug/Kg		12/25/2019	04:52
4,6-Dinitro-2-methylphenol	< 705	ug/Kg		12/25/2019	04:52
4-Bromophenyl phenyl ether	< 353	ug/Kg		12/25/2019	04:52
4-Chloro-3-methylphenol	< 353	ug/Kg		12/25/2019	04:52
4-Chloroaniline	< 353	ug/Kg		12/25/2019	04:52
4-Chlorophenyl phenyl ether	< 353	ug/Kg		12/25/2019	04:52
4-Nitroaniline	< 353	ug/Kg		12/25/2019	04:52
4-Nitrophenol	< 353	ug/Kg		12/25/2019	04:52
Acenaphthene	< 353	ug/Kg		12/25/2019	04:52
Acenaphthylene	**266**	ug/Kg	J	12/25/2019	04:52
Acetophenone	< 353	ug/Kg		12/25/2019	04:52
Anthracene	**1870**	ug/Kg		12/25/2019	04:52
Atrazine	< 353	ug/Kg		12/25/2019	04:52
Benzaldehyde	< 353	ug/Kg		12/25/2019	04:52
Benzo (a) anthracene	**1790**	ug/Kg		12/25/2019	04:52
Benzo (a) pyrene	**1690**	ug/Kg		12/25/2019	04:52
Benzo (b) fluoranthene	**1750**	ug/Kg		12/25/2019	04:52
Benzo (g,h,i) perylene	**1060**	ug/Kg		12/25/2019	04:52
Benzo (k) fluoranthene	**997**	ug/Kg		12/25/2019	04:52
Bis (2-chloroethoxy) methane	< 353	ug/Kg		12/25/2019	04:52
Bis (2-chloroethyl) ether	< 353	ug/Kg		12/25/2019	04:52
Bis (2-ethylhexyl) phthalate	< 353	ug/Kg		12/25/2019	04:52
Butylbenzylphthalate	< 353	ug/Kg		12/25/2019	04:52
Caprolactam	< 353	ug/Kg		12/25/2019	04:52
Carbazole	**337**	ug/Kg	J	12/25/2019	04:52

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-05
Lab Sample ID: 196293-11 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Chrysene	**1600**	ug/Kg		12/25/2019	04:52
Dibenz (a,h) anthracene	**362**	ug/Kg		12/25/2019	04:52
Dibenzofuran	< 353	ug/Kg		12/25/2019	04:52
Diethyl phthalate	< 353	ug/Kg		12/25/2019	04:52
Dimethyl phthalate	< 353	ug/Kg		12/25/2019	04:52
Di-n-butyl phthalate	< 353	ug/Kg		12/25/2019	04:52
Di-n-octylphthalate	< 353	ug/Kg		12/25/2019	04:52
Fluoranthene	**3510**	ug/Kg		12/25/2019	04:52
Fluorene	< 353	ug/Kg		12/25/2019	04:52
Hexachlorobenzene	< 353	ug/Kg		12/25/2019	04:52
Hexachlorobutadiene	< 353	ug/Kg		12/25/2019	04:52
Hexachlorocyclopentadiene	< 1410	ug/Kg		12/25/2019	04:52
Hexachloroethane	< 353	ug/Kg		12/25/2019	04:52
Indeno (1,2,3-cd) pyrene	**1450**	ug/Kg		12/25/2019	04:52
Isophorone	< 353	ug/Kg		12/25/2019	04:52
Naphthalene	**297**	ug/Kg	J	12/25/2019	04:52
Nitrobenzene	< 353	ug/Kg		12/25/2019	04:52
N-Nitroso-di-n-propylamine	< 353	ug/Kg		12/25/2019	04:52
N-Nitrosodiphenylamine	< 353	ug/Kg		12/25/2019	04:52
Pentachlorophenol	< 705	ug/Kg		12/25/2019	04:52
Phenanthrene	**1940**	ug/Kg		12/25/2019	04:52
Phenol	< 353	ug/Kg		12/25/2019	04:52
Pyrene	**2380**	ug/Kg		12/25/2019	04:52

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: SS-05
Lab Sample ID: 196293-11 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**67.4**	35.1 - 89.5		12/25/2019 04:52
2-Fluorobiphenyl	**67.8**	37.7 - 81.4		12/25/2019 04:52
2-Fluorophenol	**66.0**	40.2 - 77		12/25/2019 04:52
Nitrobenzene-d5	**60.3**	36.2 - 78.4		12/25/2019 04:52
Phenol-d5	**62.3**	41.2 - 77.1		12/25/2019 04:52
Terphenyl-d14	**64.1**	39.8 - 97.5		12/25/2019 04:52

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/23/2019
Data File: B43335.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-05		
Lab Sample ID:	196293-11	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.599	mg/Kg		12/30/2019

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 12/27/2019

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-05		
Lab Sample ID:	196293-11	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**78.8**	%		12/24/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	SS-05		
Lab Sample ID:	196293-11	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 35.3	ug/Kg		1/2/2020 14:32

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/23/2019
Data File: B43492.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, February 3, 2020

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

ANALYTICAL REPORT

Lab Number:	L1961123
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Jane Daloia
Phone:	(585) 647-2530
Project Name:	57 TONAWANDA
Project Number:	57 TONAWANDA
Report Date:	01/22/20

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1961123
Report Date: 01/22/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1961123-01	BH-10	SOIL	Not Specified	12/18/19 00:00	12/20/19
L1961123-02	BH-03	SOIL	Not Specified	12/18/19 00:00	12/20/19
L1961123-03	BH-02	SOIL	Not Specified	12/18/19 00:00	12/20/19
L1961123-04	BH-13	SOIL	Not Specified	12/18/19 00:00	12/20/19
L1961123-05	BH-05	SOIL	Not Specified	12/18/19 00:00	12/20/19
L1961123-06	BH-06	SOIL	Not Specified	12/18/19 00:00	12/20/19
L1961123-07	SS-01	SOIL	Not Specified	12/18/19 13:50	12/20/19
L1961123-08	SS-02	SOIL	Not Specified	12/18/19 14:14	12/20/19
L1961123-09	SS-03	SOIL	Not Specified	12/18/19 14:36	12/20/19
L1961123-10	SS-04	SOIL	Not Specified	12/19/19 10:00	12/20/19
L1961123-11	SS-05	SOIL	Not Specified	12/19/19 11:10	12/20/19
L1961123-12	BH-4 1-4'	SOIL	Not Specified	12/19/19 00:00	12/20/19
L1961123-13	BH-11 NATIVE	SOIL	Not Specified	12/19/19 00:00	12/20/19
L1961123-14	BH-12	SOIL	Not Specified	12/19/19 00:00	12/20/19

Project Name:	57 TONAWANDA	**Lab Number:**	L1961123
Project Number:	57 TONAWANDA	**Report Date:**	01/22/20

Case Narrative

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

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

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

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

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

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

Project Name:	57 TONAWANDA	**Lab Number:**	L1961123
Project Number:	57 TONAWANDA	**Report Date:**	01/22/20

Case Narrative (continued)

Report Submission

January 22, 2020: This final report includes the results of all requested analyses.

December 30, 2019: This is a preliminary report.

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

Sample Receipt

L1961123-07 through -10: The collection times were obtained from the container labels.

L1961123-11: The collection date and time on the chain of custody was 18-DEC-19 00:00; however, the collection date and time on the container label was 19-DEC-19 11:10. At the client's request, the collection date and time is reported as 19-DEC-19 11:10.

L1961123-12, -13, and -14: The collection date was changed at the client's request.

Perfluorinated Alkyl Acids by Isotope Dilution

L1961123-02: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

The WG1326024-2/3 LCS/LCSD RPD, associated with L1961123-01 through -14, are above the acceptance criteria for perfluorooctanesulfonamide (fosa) (64%).

The WG1326024-3 LCSD recovery, associated with L1961123-01 through -14, is below the acceptance criteria for perfluorooctanesulfonamide (fosa) (55%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG1326024-4 MS recovery, performed on L1961123-01, is outside the acceptance criteria for 1h,1h,2h,2h-perfluorodecanesulfonic acid (8:2fts) (143%).

WG1326024-5: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

Project Name:	57 TONAWANDA	**Lab Number:**	L1961123
Project Number:	57 TONAWANDA	**Report Date:**	01/22/20

Case Narrative (continued)

Hexavalent Chromium

The WG1323927-5 Soluble MS recovery (47%), performed on L1961123-04, was outside the acceptance criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 96%.

The WG1323930-5 Soluble MS recovery (67%), performed on L1961123-11, was outside the acceptance criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 98%.

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

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 01/22/20

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-07
Client ID: SS-01
Sample Location: Not Specified

Date Collected: 12/18/19 13:50
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/22/20 08:48
Analyst: JW
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 12/31/19 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.175	J	ug/kg	1.10	0.025	1
Perfluoropentanoic Acid (PFPeA)	0.454	J	ug/kg	1.10	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.10	0.043	1
Perfluorohexanoic Acid (PFHxA)	0.327	J	ug/kg	1.10	0.058	1
Perfluoroheptanoic Acid (PFHpA)	0.194	J	ug/kg	1.10	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.10	0.066	1
Perfluorooctanoic Acid (PFOA)	0.569	J	ug/kg	1.10	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.10	0.197	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.10	0.150	1
Perfluorononanoic Acid (PFNA)	0.194	J	ug/kg	1.10	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	2.24		ug/kg	1.10	0.143	1
Perfluorodecanoic Acid (PFDA)	0.321	J	ug/kg	1.10	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.10	0.315	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.10	0.221	1
Perfluoroundecanoic Acid (PFUnA)	0.132	J	ug/kg	1.10	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.10	0.168	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.10	0.108	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.180	J	ug/kg	1.10	0.093	1
Perfluorododecanoic Acid (PFDoA)	0.249	J	ug/kg	1.10	0.077	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.10	0.224	1
Perfluorotetradecanoic Acid (PFTA)	0.126	J	ug/kg	1.10	0.059	1
PFOA/PFOS, Total	2.81	J	ug/kg	1.10	0.046	1

Project Name: 57 TONAWANDA
Lab Number: L1961123
Project Number: 57 TONAWANDA
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-07
Client ID: SS-01
Sample Location: Not Specified
Date Collected: 12/18/19 13:50
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	87		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	82		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	91		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	94		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	53		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	60		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	54		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	55		26-160

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-08
Client ID: SS-02
Sample Location: Not Specified

Date Collected: 12/18/19 14:14
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/22/20 09:05
Analyst: JW
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 12/31/19 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.049	J	ug/kg	0.996	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.996	0.046	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.996	0.039	1
Perfluorohexanoic Acid (PFHxA)	0.075	J	ug/kg	0.996	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.996	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.996	0.060	1
Perfluorooctanoic Acid (PFOA)	0.096	J	ug/kg	0.996	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.996	0.179	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.996	0.136	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.996	0.075	1
Perfluorooctanesulfonic Acid (PFOS)	0.173	J	ug/kg	0.996	0.130	1
Perfluorodecanoic Acid (PFDA)	0.089	J	ug/kg	0.996	0.067	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.996	0.286	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.996	0.201	1
Perfluoroundecanoic Acid (PFUnA)	0.064	J	ug/kg	0.996	0.047	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.996	0.152	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.996	0.098	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.996	0.084	1
Perfluorododecanoic Acid (PFDoA)	0.084	J	ug/kg	0.996	0.070	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.996	0.204	1
Perfluorotetradecanoic Acid (PFTA)	0.068	J	ug/kg	0.996	0.054	1
PFOA/PFOS, Total	0.269	J	ug/kg	0.996	0.042	1

Project Name: 57 TONAWANDA
Lab Number: L1961123
Project Number: 57 TONAWANDA
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-08
Client ID: SS-02
Sample Location: Not Specified
Date Collected: 12/18/19 14:14
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	93		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	118		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	64		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	105		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	40		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77		26-160

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-09
Client ID: SS-03
Sample Location: Not Specified

Date Collected: 12/18/19 14:36
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/22/20 09:21
Analyst: JW
Percent Solids: 43%

Extraction Method: ALPHA 23528
Extraction Date: 12/31/19 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.258	J	ug/kg	2.24	0.051	1
Perfluoropentanoic Acid (PFPeA)	0.159	J	ug/kg	2.24	0.103	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	2.24	0.087	1
Perfluorohexanoic Acid (PFHxA)	0.164	J	ug/kg	2.24	0.118	1
Perfluoroheptanoic Acid (PFHpA)	0.104	J	ug/kg	2.24	0.101	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	2.24	0.136	1
Perfluorooctanoic Acid (PFOA)	0.257	J	ug/kg	2.24	0.094	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	2.24	0.402	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	2.24	0.306	1
Perfluorononanoic Acid (PFNA)	0.246	J	ug/kg	2.24	0.168	1
Perfluorooctanesulfonic Acid (PFOS)	0.866	J	ug/kg	2.24	0.291	1
Perfluorodecanoic Acid (PFDA)	0.358	J	ug/kg	2.24	0.150	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	2.24	0.643	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	2.24	0.452	1
Perfluoroundecanoic Acid (PFUnA)	0.362	J	ug/kg	2.24	0.105	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	2.24	0.343	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	2.24	0.220	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	2.24	0.189	1
Perfluorododecanoic Acid (PFDoA)	0.330	J	ug/kg	2.24	0.157	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	2.24	0.458	1
Perfluorotetradecanoic Acid (PFTA)	0.211	J	ug/kg	2.24	0.121	1
PFOA/PFOS, Total	1.12	J	ug/kg	2.24	0.094	1

Project Name: 57 TONAWANDA **Lab Number:** L1961123

Project Number: 57 TONAWANDA **Report Date:** 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-09 Date Collected: 12/18/19 14:36

Client ID: SS-03 Date Received: 12/20/19

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	81		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	84		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	77		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	81		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	79		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	83		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	95		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	81		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	83		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	101		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	85		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	16		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	63		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	74		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	63		26-160

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-10
Client ID: SS-04
Sample Location: Not Specified

Date Collected: 12/19/19 10:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/22/20 09:38
Analyst: JW
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 12/31/19 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.054	J	ug/kg	1.06	0.024	1
Perfluoropentanoic Acid (PFPeA)	0.051	J	ug/kg	1.06	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.06	0.041	1
Perfluorohexanoic Acid (PFHxA)	0.073	J	ug/kg	1.06	0.056	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.06	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.06	0.064	1
Perfluorooctanoic Acid (PFOA)	0.057	J	ug/kg	1.06	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.06	0.191	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.06	0.145	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.06	0.080	1
Perfluorooctanesulfonic Acid (PFOS)	0.448	J	ug/kg	1.06	0.138	1
Perfluorodecanoic Acid (PFDA)	0.133	J	ug/kg	1.06	0.071	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.06	0.305	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.06	0.214	1
Perfluoroundecanoic Acid (PFUnA)	0.161	J	ug/kg	1.06	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	0.170	J	ug/kg	1.06	0.163	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.06	0.104	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.06	0.090	1
Perfluorododecanoic Acid (PFDoA)	0.199	J	ug/kg	1.06	0.074	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.06	0.217	1
Perfluorotetradecanoic Acid (PFTA)	0.096	J	ug/kg	1.06	0.057	1
PFOA/PFOS, Total	0.505	J	ug/kg	1.06	0.045	1

Project Name: 57 TONAWANDA **Lab Number:** L1961123

Project Number: 57 TONAWANDA **Report Date:** 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-10 Date Collected: 12/19/19 10:00

Client ID: SS-04 Date Received: 12/20/19

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	86		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	82		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	93		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	101		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	61		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	64		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		26-160

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-11
Client ID: SS-05
Sample Location: Not Specified

Date Collected: 12/19/19 11:10
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/22/20 10:14
Analyst: JW
Percent Solids: 81%

Extraction Method: ALPHA 23528
Extraction Date: 12/31/19 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.151	J	ug/kg	1.07	0.024	1
Perfluoropentanoic Acid (PFPeA)	0.119	J	ug/kg	1.07	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.07	0.042	1
Perfluorohexanoic Acid (PFHxA)	0.139	J	ug/kg	1.07	0.056	1
Perfluoroheptanoic Acid (PFHpA)	0.090	J	ug/kg	1.07	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.07	0.065	1
Perfluorooctanoic Acid (PFOA)	0.410	J	ug/kg	1.07	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.07	0.192	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.07	0.146	1
Perfluorononanoic Acid (PFNA)	0.221	J	ug/kg	1.07	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	2.08		ug/kg	1.07	0.139	1
Perfluorodecanoic Acid (PFDA)	0.123	J	ug/kg	1.07	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.07	0.308	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.07	0.216	1
Perfluoroundecanoic Acid (PFUnA)	0.106	J	ug/kg	1.07	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.07	0.164	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.07	0.105	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.07	0.091	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.07	0.075	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.07	0.219	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.07	0.058	1
PFOA/PFOS, Total	2.49	J	ug/kg	1.07	0.045	1

Project Name: 57 TONAWANDA **Lab Number:** L1961123

Project Number: 57 TONAWANDA **Report Date:** 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-11 Date Collected: 12/19/19 11:10

Client ID: SS-05 Date Received: 12/20/19

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	81		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	82		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	81		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	78		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	86		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	84		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	84		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	84		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	103		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	48		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	89		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	1		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	50		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	74		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	49		26-160

PESTICIDES

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-07
Client ID: SS-01
Sample Location: Not Specified

Date Collected: 12/18/19 13:50
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/26/19 19:17
Analyst: JMC
Percent Solids: 85%
Methylation Date: 12/24/19 15:00

Extraction Method: EPA 8151A
Extraction Date: 12/23/19 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	192	5.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	76		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-08
Client ID: SS-02
Sample Location: Not Specified

Date Collected: 12/18/19 14:14
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/26/19 19:36
Analyst: JMC
Percent Solids: 89%
Methylation Date: 12/24/19 15:00

Extraction Method: EPA 8151A
Extraction Date: 12/23/19 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	182	4.85	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	36		30-150	A
DCAA	36		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-09
Client ID: SS-03
Sample Location: Not Specified

Date Collected: 12/18/19 14:36
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/27/19 16:11
Analyst: JMC
Percent Solids: 43%
Methylation Date: 12/24/19 15:00

Extraction Method: EPA 8151A
Extraction Date: 12/23/19 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	378	10.0	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**28**	Q	30-150	A
DCAA	30		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-10
Client ID: SS-04
Sample Location: Not Specified

Date Collected: 12/19/19 10:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/26/19 20:12
Analyst: JMC
Percent Solids: 84%
Methylation Date: 12/24/19 15:00

Extraction Method: EPA 8151A
Extraction Date: 12/23/19 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	194	5.17	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**29**	Q	30-150	A
DCAA	33		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-11
Client ID: SS-05
Sample Location: Not Specified

Date Collected: 12/19/19 11:10
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/26/19 20:31
Analyst: JMC
Percent Solids: 81%
Methylation Date: 12/24/19 15:00

Extraction Method: EPA 8151A
Extraction Date: 12/23/19 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	204	5.42	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	77		30-150	A
DCAA	77		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-07
Client ID: SS-01
Sample Location: Not Specified
Sample Depth:
Matrix: Soil

Date Collected: 12/18/19 13:50
Date Received: 12/20/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	12/21/19 13:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.942	0.188	1	12/23/19 10:20	12/23/19 20:30	1,7196A	DR

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-08
Client ID: SS-02
Sample Location: Not Specified

Date Collected: 12/18/19 14:14
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	12/21/19 13:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.899	0.180	1	12/23/19 10:20	12/23/19 20:30	1,7196A	DR

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-09
Client ID: SS-03
Sample Location: Not Specified
Sample Depth:
Matrix: Soil

Date Collected: 12/18/19 14:36
Date Received: 12/20/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	42.8		%	0.100	NA	1	-	12/21/19 13:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.87	0.374	1	12/23/19 10:20	12/23/19 20:30	1,7196A	DR

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-10
Client ID: SS-04
Sample Location: Not Specified
Sample Depth:
Matrix: Soil

Date Collected: 12/19/19 10:00
Date Received: 12/20/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.0		%	0.100	NA	1	-	12/21/19 13:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.952	0.190	1	12/23/19 10:20	12/23/19 20:30	1,7196A	DR

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-11
Client ID: SS-05
Sample Location: Not Specified
Sample Depth:
Matrix: Soil

Date Collected: 12/19/19 11:10
Date Received: 12/20/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.4		%	0.100	NA	1	-	12/21/19 13:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.983	0.196	1	12/23/19 10:20	12/23/19 20:30	1,7196A	DR

Project Name:	57 TONAWANDA	**Lab Number:**	L1961123
Project Number:	57 TONAWANDA	**Report Date:**	01/22/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA	**Lab Number:**	L1961123
Project Number:	57 TONAWANDA	**Report Date:**	01/22/20

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Project Name:	57 TONAWANDA	**Lab Number:**	L1961123
Project Number:	57 TONAWANDA	**Report Date:**	01/22/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA	**Lab Number:**	L1961123
Project Number:	57 TONAWANDA	**Report Date:**	01/22/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

L1961123

CHAIN OF CUSTODY

PARADIGM

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Paradigm Environmental	CLIENT:	Same	
ADDRESS:	179 Lake Avenue	ADDRESS:		
CITY:	Rochester STATE: NY ZIP 14608	CITY:	STATE: ZIP:	Results by 3 PM
PHONE:	585-647-2530	PHONE:		Email:
ATTN:	reporting@paradigmenv.com	ATTN:	accpay@paradigmenv.com	

PROJECT REFERENCE

57 Tonawanda

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Silvex	Hex Chrome	PFAS								REMARKS	PARADIGM LAB SAMPLE NUMBER
12/18/19		X	X	BH-10	SO	3	X	X	X									
12/18/19		X	X	BH-03	SO	3	X	X	X									
12/18/19		X	X	BH-02	SO	3	X	X	X									
12/18/19		X	X	BH-13	SO	3	X	X	X									
12/18/19		X	X	BH-05	SO	3	X	X	X									
12/18/19		X	X	BH-06	SO	3	X	X	X									
12/18/19		X		SS-01	SO	3	X	X	X									
12/18/19		X		SS-02	SO	3	X	X	X									
12/18/19		X		SS-03	SO	3	X	X	X									
12/19/19		X		SS-04	SO	3	X	X	X									

Turnaround Time		Report Supplements			
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other	☐	Other	☐	Other EDD	☐

Client — Sampled By — Date/Time: 12/19/19

James Steiner — Relinquished By — Date/Time: 12/20/19 11:05

Jocelyn Tilley (AAL) — Received By — Date/Time: 12/20/19 11:05

Jocelyn Tilley (AAL) — ~~Received @ Lab By~~ — Date/Time: 12/20/19 11:05

RELINQUISHED BY

12/21/19 01:15

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

L1961123

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		
CLIENT:	Paradigm Environmental	CLIENT:	Same	LAB PROJECT ID
ADDRESS:	179 Lake Avenue	ADDRESS:		
CITY:	Rochester STATE: NY ZIP 14608	CITY:	STATE: ZIP:	Results by 3 PM
PHONE:	585-647-2530	PHONE:		Email:
ATTN:	reporting@paradigmenv.com	ATTN:	accpay@paradigmenv.com	

PROJECT REFERENCE

57 Tonawanda

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Silvex	Hex Chrome	PFAS								REMARKS	PARADIGM LAB SAMPLE NUMBER
12/18/19		X	X	SS-05	SO	3	X	X	X									
12/18/19		X	X	BH-4 1-4'	SO	3	X	X	X									
12/18/19		X	X	BH-11 Native	SO	3	X	X	X									
12/18/19		X	X	BH-12	SO	3	X	X	X								Odor Detected	

Turnaround Time		Report Supplements			
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other	☐	Other	☐	Other EDD	☐

Client

Sampled By: James Steiner — Date/Time: 12/19/19

Relinquished By: Jocelyn Foley (AAL) — Date/Time: 12/20/19 11:05

Received By: Jocelyn Foley (AAL) — Date/Time: 12/20/19 11:05

~~Received @ Lab By~~ — Date/Time:

RELINQUISHED BY — 12/21/19 01:15

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1 of 3

CHAIN OF CUSTODY

Pg 1 of 2

PARADIGM

REPORT TO:		INVOICE TO:		
CLIENT: BE3		CLIENT:		LAB PROJECT ID: 196293
ADDRESS: 1270 Niagara		ADDRESS:		
CITY: Buffalo STATE: NY ZIP: 14211		CITY: STATE: ZIP:		Quotation #:
PHONE: 716-308-8220		PHONE:		Email:
ATTN: Pete Gorton		ATTN:		

PROJECT REFERENCE

57 Tonawanda

Matrix Codes:

AQ - Aqueous Liquid; **NQ** - Non-Aqueous Liquid; **WA** - Water; **WG** - Groundwater; **DW** - Drinking Water; **WW** - Wastewater; **SO** - Soil; **SL** - Sludge; **SD** - Solid; **PT** - Paint; **WP** - Wipe; **CK** - Caulk; **OL** - Oil; **AR** - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	375 VOC	375 sVOC	375 Metals	375 PCB	Pesticides	TCL	Silver	Cr6	PFAS	TCLP Solids	1-4 Dioxane	REMARKS	PARADIGM LAB SAMPLE NUMBER
12/18/19		X	X	BH-10 1-2 ft (per sample jar labels MW 12/23/19)	SO	5													01
				BH-~~03~~ (TM) BH-03 1-4ft	SO	5													02
				BH-02 1-2 ft	SO	5													03
				BH-13 1-2 ft	SO	5													04
				BH-05 1-4 ft	SO	5													05
				BH-06 1-4 ft	SO	5													06
	1350			SS-01	SO	4													07
	1414			SS-02	SO	4													08
(TM)	1436			SS-03	SO	4													09
12/19/19	1000			SS-04 (per sample jar labels MW 12/23/19)	SO	4												sub-part directly to sub-lab	10

Turnaround Time

Availability contingent upon lab approval; additional fees may apply.

Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Date Needed _____ please indicate date needed:		Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

Sampled By: Matthew Spera	Date/Time: 12/19/19	Total Cost:
Relinquished By: Matthew Spera	Date/Time: 12/19/19	
Received By:	Date/Time: 12/19/19	P.I.F.
Received @ Lab By:	Date/Time: 12/20/19 1545	

4 °C ice 12/20/19 15:43

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM

REPORT TO:		INVOICE TO:		
CLIENT:	BE3	CLIENT:		LAB PROJECT ID: 196293
ADDRESS:	1270 Niagara	ADDRESS:		
CITY: Buffalo	STATE: NY ZIP: 14211	CITY:	STATE: ZIP:	Quotation #:
PHONE:		PHONE:		Email:
ATTN:	Pete Gorton	ATTN:		

PROJECT REFERENCE

57 Tonawanda

Matrix Codes:

AQ - Aqueous Liquid; **NQ** - Non-Aqueous Liquid; **WA** - Water; **WG** - Groundwater; **DW** - Drinking Water; **WW** - Wastewater; **SO** - Soil; **SL** - Sludge; **SD** - Solid; **PT** - Paint; **WP** - Wipe; **CK** - Caulk; **OL** - Oil; **AR** - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	375 VOC	375 sVOC	375 metals	375 PCB	Pesticide	TCL	Silvex	Cyclo	PFAS	%Solids	1-4 Dioxane	REMARKS	PARADIGM LAB SAMPLE NUMBER
	per sample jar label 12/23/19																		
12/19/19	1110			SS05	So	1											✓	CPC PG · 1,4 Dioxane	11
				BH-11 1-4	So	5											✓	needed on all samples	12
				BH-11 Native 6-8	So	5											✓	JD 12/23/19	13
↓				BH-12 1-2 Ft	So	5											✓	(Odor detected)	14
				per sample jar label 12/23/19															

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Date Needed _____ please indicate date needed:		Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

Sampled By: Matthew Sbarra	Date/Time: 12/19/19	Total Cost:
Relinquished By: Matthew Sbarra	Date/Time: 12/19/19	
Received By: [signature]	Date/Time: 12/19/19	P.I.F.
Received @ Lab By: [signature]	Date/Time: 12/20/19 1545	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

Chain of Custody Supplement

Client: BE3 **Completed by:** MollyRail

Lab Project ID: 196293 **Date:** 12/20/19

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X	5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		met
Comments	4°C iced		
Compliant Sample Quantity/Type	X		
Comments	Silver Hex chrom PFAS sent directly to sub lab		

SUBSURFACE SOIL & FILL

1989 CRA
SITE INVESTIGATION REPORT

ADVANCED
ENVIRONMENTAL SERVICES INC.

PHASE II SITE INVESTIGATION

Report Prepared For

FEDCO AUTOMOTIVE

Donovan L. Klaaren
Project Manager

Paul T. McMahon
Technical Evaluation

August 30, 1989
AES Report EGT

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TCL VOLATILES

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID - / Sample Date-	10970 GRAB MW-1 SOIL 08/16/89	10971 GRAB MW-2 SOIL 08/16/89	~~10972 GRAB SS-1 SOIL 08/16/89~~
Chloromethane	8240	0.50		BQL *	BQL	~~BQL~~
Vinyl Chloride	"	"		BQL	BQL	~~BQL~~
Chloroethane	"	"		BQL	BQL	~~BQL~~
Bromomethane	"	"		BQL	BQL	~~BQL~~
2-Chloroethyl Vinyl Ether	"	"		BQL	BQL	~~BQL~~
Ethylbenzene	"	0.25		BQL	BQL	~~BQL~~
Methylene Chloride	"	"		BQL	0.61	~~BQL~~
Chlorobenzene	"	"		BQL	BQL	~~BQL~~
1,1-Dichloroethylene	"	"		BQL	BQL	~~BQL~~
1,1-Dichloroethane	"	"		BQL	BQL	~~BQL~~
trans-1,2-Dichloroethylene	"	"		BQL	BQL	~~BQL~~
Chloroform	"	"		BQL	BQL	~~BQL~~
1,2-Dichloroethane	"	"		BQL	BQL	~~BQL~~
1,1,1-Trichloroethane	"	"		BQL	BQL	~~BQL~~
Carbon Tetrachloride	"	"		BQL	BQL	~~BQL~~
Bromodichloromethane	"	"		BQL	BQL	~~BQL~~
1,2-Dichloropropane	"	"		BQL	BQL	~~BQL~~
trans-1,3-Dichloropropene	"	"		BQL	BQL	~~BQL~~
Trichloroethylene	"	"		BQL	15	~~BQL~~
Benzene	"	"		BQL	BQL	~~BQL~~
cis-1,3-Dichloropropene	"	"		BQL	BQL	~~BQL~~
1,1,2-Trichloroethane	"	"		BQL	BQL	~~BQL~~
Dibromochloromethane	"	"		BQL	BQL	~~BQL~~
Bromoform	"	"		BQL	BQL	~~BQL~~

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01 '89 12:02 AES

P.24

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TCL VOLATILES

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID - / Sample Date-	10970 GRAB MW-1 SOIL 08/16/89	10971 GRAB MW-2 SOIL 08/16/89	~~10972 GRAB SS-1 SOIL 08/16/89~~
1,1,2,2-Tetrachloroethylen	8240	0.25		BQL *	BQL	~~BQL~~
1,1,2,2-Tetrachloroethane	"	"		BQL	BQL	~~BQL~~
Toluene	"	"		BQL	BQL	~~BQL~~
Acetone	"	2.5		BQL	BQL	~~BQL~~
Carbon Disulfide	"	0.25		BQL	BQL	~~BQL~~
2-Butanone	"	2.5		BQL	BQL	~~BQL~~
Vinyl Acetate	"	0.50		BQL	BQL	~~BQL~~
2-Hexanone	"	2.5		BQL	BQL	~~BQL~~
4-Methyl-2-Pentanone	"	"		BQL	BQL	~~BQL~~
Styrene	"	0.25		BQL	BQL	~~BQL~~
o-Xylene	"	"		BQL	BQL	~~BQL~~
m/p-Xylene	"	"		BQL	BQL	~~BQL~~

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01 '89 12:03 AES

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TOTAL POLYCHLORINATED BIPHENYLS

Units of Measure: Milligrams/ Kilogram or ppm
Client: FEDCO AUTOMOTIVE A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits		AES Lab No.-	10970	10971
				Sample ID -	SOIL MW-1	SOIL MW-2
			Sample Date-		08/16/89	08/16/89
PCBs 1254	8080	0.01			BQL *	0.17

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01 '89 11:59 AES

ADVANCED ENVIRONMENTAL SERVICES, INC.
PARAMETER TRACEABILITY REPORT
GAS CHROMATOGRAPHY DEPARTMENT

AES JOB CODE 8GT

ANALYST	ANALYTICAL METHOD	SAMPLE CODE	DATE OF ANALYSIS	TIME OF ANALYSIS
Wayne Johnson	8080	10930 - 10979	August 21-24, 1989	15:00

ADVANCED ENVIRONMENTAL SERVICES, INC.
PARAMETER TRACEABILITY REPORT
GAS CHROMATOGRAPHY DEPARTMENT

AES JOB CODE EGT

ANALYST	ANALYTICAL METHOD	SAMPLE CODE	DATE OF ANALYSIS	TIME OF ANALYSIS
[signature]	8240	10971, 10979	8/21/89	1300 - 1500
[signature]	8240	10970, 10972-10975	8/22/89	800 - 1500
Patrick A. Farra	8240	10976 - 10978	8/22/89	1600 - 1830

SEP 01 '89 12:11 AES

CRA Consulting Engineers
CONESTOGA-ROVERS & ASSOCIATES
651 Colby Drive, Waterloo, Ontario Canada N2V 1C2

SHIPPED TO (Laboratory name): AES

CHAIN OF CUSTODY RECORD

PROJECT Nº: 3042

PROJECT NAME: Fedco

SAMPLER'S SIGNATURE: _____ (SIGN)

SEQ. Nº.	SAMPLE NR	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	Nº OF CONTAINERS	REMARKS
	MW-1	8/16/89	1130		Soil	2	PCB + Vol
	MW-2	8/16/89	1355		Soil	2	PCB + Vol
	SS-1	8/16/89	0845		Soil	2	PCB + Vol
	SS-2	8/16/89	0910		Soil	2	PCB + Vol
	SS-3	8/16/89	0920		Soil	2	PCB + Vol
	SS-4	8/16/89	0930		Soil	2	PCB + Vol
	SS-5	8/16/89	1330		Soil	2	PCB + Vol
	SS-6	8/16/89	1340		Soil	2	PCB + Vol
	SS-4	8/16/89	0930		Soil	2	PCB + Vol
	Trip Blank				Water	2	PCB + Vol

NOTE: Please homogenize all samples as they are composite samples

TOTAL NUMBER OF CONTAINERS: 20

ANTICIPATED CHEMICAL HAZARDS:

RELINQUISHED BY: [1] (SIGN)	DATE/TIME 8/16/89 1535	RECEIVED BY: ② (SIGN)
RELINQUISHED BY: [2] (SIGN)	DATE/TIME	RECEIVED BY: ③ (SIGN)
RELINQUISHED BY: [3] (SIGN)	DATE/TIME	RECEIVED BY: ④ (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

METHOD OF SHIPMENT:	SHIPPED BY:	RECEIVED FOR LABORATORY BY: (SIGN)	DATE/TIME
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN)	DATE/TIME

WHITE – CRA OFFICE COPY
YELLOW – RECEIVING LABORATORY COPY
PINK – CRA LABORATORY COPY
GOLDEN ROD – SHIPPERS

Nº 4465

1992 NYSDEC
PHASE II INVESTIGATION REPORT

DATA SUMMARY FORM: V O L A T I L E S 1

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SB-1A		SB-1ARE		SB-1B		SB-1BRE		SB-1C		SB-1D		SB-2A		SB-2ADL		SB-2B	
	Sample No.	SB-1A		SB-1ARE		SB-1B		SB-1BRE		SB-1C		SB-1D		SB-2A		SB-2ADL		SB-2B	
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		5.7		1.0	
	% Moisture	10		10		20		20		16		17		14		14		14	
	Location	more acceptable				more acceptable													
10	Chloromethane		UJ				UJ												
10	Bromomethane																		
10	Vinyl Chloride																	8	J
10	Chloroethane																	54	
5	Methylene Chloride	15	B	15	B	20	B	9	B	17	B	17	B	19	B	35	B	17	B
10	Acetone	12	B	23	B	33	B	24	B	36	B	28	B	9	B	46	B	52	B
5	Carbon Disulfide		UJ				UJ												
5	1,1 Dichloroethene													9				16	
5	1,1 Dichloroethane													700	J	160		810	J
5	Total-1,2 Dichloroethene																	130	
5	Chloroform																		
5	1,2 Dichloroethane													7					
10	2 Butanone																		
5	1,1,1 Trichloroethane			2	J									2800	J	500		1700	J
5	Carbon Tetrachloride																		
10	Vinyl Acetate																		
5	Bromodichloromethane		V				V												

CRDL = Contract Required Detection Limit

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

DATA SUMMARY FORM: V O L A T I L E S 2

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SB-1A		SB-1AFLE		SB-1B		SB-1BRE		SB-1C		SB-1D		SB-2A		SB-2ADL		SB-2B	
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		5.7		1.0	
	% Moisture	10		10		20		20		16		17		14		14		14	
	Location	more acceptable				more acceptable													
5	1,2-Dichloropropane		UJ				UJ												
5	Cis-1,3-Dichloropropene		↓				↓												
5	Trichloroethene	14	J	9		19	J	19						8				630	J
5	Dibromochloromethane		UJ				UJ												
5	1,1,2-Trichloroethane		↓				↓							3	J			4	J
5	Benzene																		
5	Trans-1,3-Dichloropropene																		
5	Bromoform																		
10	4-Methyl-2-pentanone																		
10	2-Hexanone																		
5	Tetrachloroethene																		
5	1,1,2,2-Tetrachloroethane																		
5	Toluene																	2	J
5	Chlorobenzene																		
5	Ethylbenzene					2	J	3	J					36		21	J	38	
5	Styrene						UJ												
5	Total Xylenes					5	J	8						350		720		500	J

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

recycled paper
ecology and environment

DATA SUMMARY FORM: V O L A T I L E S 1

Site Name: Fedders Auto Components SOIL SAMPLES (ug/Kg)

Case #: 9002-359 Sampling Date(s): _____

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SB-2BDL		SB-2C		SB-3A		SB-3ARLE		SB-3B		SB-3C		SB-3CRE		SB-3D		SB-4A	
	Dilution Factor	3.7		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	% Moisture	14		14		10		10		8		16		16		15		14	
	Location					more acceptable						more acceptable							
10	Chloromethane						UJ						UJ						
10	Bromomethane																		
10	Vinyl Chloride																		
10	Chloroethane																		
5	Methylene Chloride	53	B	53	B	15	B	15	B	14	B	17	B	15	B	4	B	4	B
10	Acetone	85	B	140	B	23	B	22	B	15	B	16	B	27	B	30	B	16	B
5	Carbon Disulfide						UJ						UJ						
5	1,1 Dichloroethene	8	J	18	J														
5	1,1 Dichloroethane	630		1100	J														
5	Total-1,2 Dichloroethene	150																5	J
5	Chloroform																		
5	1,2-Dichloroethane			7	J														
10	2-Butanone																		
5	1,1,1-Trichloroethane	800		1600	J														
5	Carbon Tetrachloride																		
10	Vinyl Acetate																		
5	Bromodichloromethane																		

CRDL = Contract Required Detection Limit

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

DATA SUMMARY FORM: V O L A T I L E S 2

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SB-2BDL		SB-2C		SB-3A		SB-3AFLE		SB-3B		SB-3C		SB-3CRE		SB-3D		SB-4A	
	Dilution Factor	3.7		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	% Moisture	14		14		10		10		6		16		16		15		14	
	Location					more acceptable						more acceptable							
5	1,2-Dichloropropane						UJ						UJ						
5	Cis-1,3-Dichloropropene																		
5	Trichloroethene	530		10	J	11	J	3	J	6								80	
5	Dibromochloromethane						UJ												
5	1,1,2-Trichloroethane																		
5	Benzene																		
5	Trans-1,3-Dichloropropene																		
5	Bromoform																		
10	4-Methyl-2-pentanone																		
10	2-Hexanone																		
5	Tetrachloroethene																		
5	1,1,2,2-Tetrachloroethane																		
5	Toluene					15	J	2	J			2	J						
5	Chlorobenzene						UJ						UJ						
5	Ethylbenzene	22		40															
5	Styrene																		
5	Total Xylenes	250		280		3	J												

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

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ecology and environment

DATA SUMMARY FORM: V O L A T I L E S 1

Site Name: Fedder's Auto Components SOIL SAMPLES (ug/Kg)

Case #: 9002-359 Sampling Date(s): _____

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

	Sample No.	SB-4B		SB-4C		SB-4D		SB-4DDL		SED-1		SED-2		SED-3		VBLKS1		VBLKS2	
	Dilution Factor	1.0		1.0		1.0		2.4		1.0		1.0		1.0		1.0		1.0	
	% Moisture	10		11		11		11		58		54		31		—		—	
	Location																		
CRQL	COMPOUND																		
10	Chloromethane																		
10	Bromomethane																		
10	Vinyl Chloride																		
10	Chloroethane																		
5	Methylene Chloride	4	B	25	B	4	B	24	B	18	B	14	B	14	B	4	J	11	
10	Acetone	18	B	28	B	12	B	48	B	74	B	35	B	37	B	6	J	11	
5	Carbon Disulfide																		
5	1,1-Dichloroethene																		
5	1,1-Dichloroethane																		
5	Total-1,2 Dichloroethene	10		40		120		71						13					
5	Chloroform																		
5	1,2 Dichloroethane																		
10	2 Butanone																		
5	1,1,1-Trichloroethane																		
5	Carbon Tetrachloride																		
10	Vinyl Acetate																		
5	Bromodichloromethane																		

CRQL = Contract Required Detection Limit

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

DATA SUMMARY FORM: V O L A T I L E S 2

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SB-4B		SB-4C		SB-4D		SB-4DDL		SED-1		SED-2		SED-3		VBLKS1		VBLKS2	
	Sample No.	SB-4B		SB-4C		SB-4D		SB-4DDL		SED-1		SED-2		SED-3		VBLKS1		VBLKS2	
	Dilution Factor	1.0		1.0		1.0		2.4		1.0		1.0		1.0		1.0		1.0	
	% Moisture	10		11		11		11		58		54		31		—		—	
	Location																		
5	1,2-Dichloropropane																		
5	Cis-1,3-Dichloropropene																		
5	Trichloroethene	81		220		590	J	460						17					
5	Dibromochloromethane																		
5	1,1,2-Trichloroethane					2	J												
5	Benzene																		
5	Trans-1,3-Dichloropropene																		
5	Bromoform																		
10	4-Methyl-2-pentanone																		
10	2-Hexanone																		
5	Tetrachloroethene													85					
5	1,1,2,2-Tetrachloroethane																		
5	Toluene																		
5	Chlorobenzene																		
5	Ethylbenzene																		
5	Styrene																		
5	Total Xylenes																		

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

recycled paper
ecology and environment

DATA SUMMARY FORM: B N A S 1

Site Name: Fedders Auto Component

Case #: 9002-359 Sampling Date(s): _____

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

	Sample No.	SB-1A	SB-1B	SB-1C	SB-1D	SB-2A	SB-2B	SB-2C	SB-3A	SB-3B
	Dilution Factor	5.0	5.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
	% Moisture	10	20	16	17	14	14	14	10	8
	Location									
CRQL	COMPOUND									
330	Phenol									
330	bis(2-Chloroethyl)ether									
330	2-Chlorophenol									
330	1,3-Dichlorobenzene									
330	1,4-Dichlorobenzene									
330	Benzyl Alcohol									
330	1,2-Dichlorobenzene									
330	2-Methylphenol									
330	bis(2-Chloroisopropyl)ether									
330	4-Methylphenol									
330	N-Nitroso-di-n-propylamine									
330	Hexachloroethane									
330	Nitrobenzene									
330	Isophorone									
330	2-Nitrophenol									
330	2,4-Dimethylphenol									
1600	Benzoic Acid									
330	bis(2-Chloroethoxy)methane									
330	2,4-Dichlorophenol									
330	1,2,4-Trichlorobenzene									
330	Naphthalene		88 J			70 J	120 J	90 J	300 J	220 J
330	4-Chloroaniline									

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: B N A S 2

Site Name: Fedders Auto Component

Case #: 9002-359 Sampling Date(s): _____

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

	Sample No.	SB-1A		SB-1B		SB-1C		SB-1D		SB-2A		SB-2B		SB-2C		SB-3A		SB-3B	
	Dilution Factor	5.0		5.0		1.0		1.0		1.0		2.0		2.0		2.0		2.0	
	% Moisture	10		20		16		17		14		14		14		10		8	
	Location																		
CRQL	COMPOUND																		
330	Hexachlorobutadiene																		
330	4-Chloro-3-methylphenol																		
330	2-Methylnaphthalene	76	J	82	J							140	J	80	J	510	J	260	J
330	Hexachlorocyclopentadiene																		
330	2,4,6-Trichlorophenol																		
1600	2,4,5-Trichlorophenol																		
330	2-Chloronaphthalene																		
1600	2-Nitroaniline																		
330	Dimethylphthalate																		
330	Acenaphthylene																		
330	2,6-Dinitrotoluene																		
1600	3-Nitroaniline																		
330	Acenaphthene	180	J	190	J					220	J	180	J	180	J	65	J	160	J
1600	2,4-Dinitrophenol																		
1600	4-Nitrophenol																		
330	Dibenzofuran	150	J	160	J					140	J	140	J	130	J	150	J	220	J
330	2,4-Dinitrotoluene																		
330	Diethylphthalate																		
330	4-Chlorophenyl-phenylether																		
330	Fluorene	210	J	220	J					200	J	210	J	230	J	57	J	250	J
1600	4-Nitroaniline																		
1600	4,6-Dinitro-2-methylphenol																		

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: B N A S 3

Site Name: Fedders Auto Component

Case #: 9002-359 Sampling Date(s): _____

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

	Sample No.	SB-1A		SB-1B		SB-1C		SB-1D		SB-2A		SB-2B		SB-2C		SB-3A		SB-3B	
	Dilution Factor	5.0		5.0		1.0		1.0		1.0		2.0		2.0		2.0		2.0	
	% Moisture	10		20		16		17		14		14		14		10		8	
	Location																		
CRQL	COMPOUND																		
330	N-Nitrosodiphenylamine																		
330	4-Bromophenyl phenylether																		
330	Hexachlorobenzene																		
1600	Pentachlorophenol																		
330	Phenanthrene	3100		3300						2400		2400		2800		920		3400	
330	Anthracene	540	J	520	J					450		510	J	650	J	150	J	710	J
330	Di-n-butylphthalate											90	J	60	J	92	J	110	J
330	Fluoranthene	5000		5000						2700		2900		36000		930		4700	
330	Pyrene	5400		5100						2000		3700		4100		910		5200	
330	Butylbenzylphthalate									140	J			160	J				
1600	3,3 Dichlorobenzidine																		
330	Benzo(a)anthracene	2900		2600						1200		2000		2100		540	J	2600	
330	Chrysene	2900		2700						1300		2000		2000		640	J	2700	
330	bis(2 Ethylhexyl)phthalate	150	B	300	B	130	B	110	B	570	B	82	B	130	B	70	B	110	B
330	Di-n-octylphthalate																		
330	Benzo(b)fluoranthene	3300		3600						1600		2000		2400		1100		4200	
330	Benzo(k)fluoranthene	2600		1500	J					620		960		1300					
330	Benzo(a)pyrene	3500		3100						1200		1900		1900		660	J	2900	
330	Indeno(1,2,3-cd)pyrene	2700		2500						930		1300		1300		440	J	1900	
330	Dibenz(a,h)anthracene	610	J	430	J					240	J	350	J	330	J	140	J	700	J
330	Benzo(g,h,i)perylene	2200		2100						790		1200		1200		430	J	1700	

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: B N A S 1

Site Name: Fedders Auto Components SOIL SAMPLES (ug/Kg)

Case #: 9002-359 Sampling Date(s): _____

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SB-3C		SB-3D		SB-4A		SB-4B		SB-4C		SB-4D		SED-1		SED-2		SED-3	
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		10.0		5.0		1.0	
	% Moisture	16		15		14		10		11		11		58		54		31	
	Location																		
330	Phenol																		
330	bis(2-Chloroethyl)ether																		
330	2-Chlorophenol																		
330	1,3-Dichlorobenzene																		
330	1,4-Dichlorobenzene																		
330	Benzyl Alcohol																		
330	1,2 Dichlorobenzene																		
330	2-Methylphenol																		
330	bis(2-Chloroisopropyl)ether																		
330	4-Methylphenol																		
330	N-Nitroso di-n propylamine																		
330	Hexachloroethane																		
330	Nitrobenzene																		
330	Isophorone																		
330	2-Nitrophenol																		
330	2,4 Dimethylphenol																		
1600	Benzoic Acid																		
330	bis(2-Chloroethoxy)methane																		
330	2,4 Dichlorophenol																		
330	1,2,4-Trichlorobenzene																		
330	Naphthalene					160	J							4400	J			51	J
330	4-Chloroaniline																		

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: B N A S 2

Site Name: Fedders Auto Component

Case #: 9002-359 Sampling Date(s): _____

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SB-3C		SB-3D		SB-4A		SB-4B		SB-4C		SB-4D		SED-1		SED-2		SED-3	
	Sample No.																		
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		10.0		5.0		1.0	
	% Moisture	16		15		14		10		11		11		58		54		31	
	Location																		
330	Hexachlorobutadiene																		
330	4-Chloro-3-methylphenol																		
330	2-Methylnaphthalene					250	J							830	J				
330	Hexachlorocyclopentadiene																		
330	2,4,6-Trichlorophenol																		
1600	2,4,5-Trichlorophenol																		
330	2-Chloronaphthalene																		
1600	2-Nitroaniline																		
330	Dimethylphthalate																		
330	Acenaphthylene													220	J				
330	2,6-Dinitrotoluene																		
1600	3-Nitroaniline																		
330	Acenaphthene					120	J							4000	J			78	J
1600	2,4-Dinitrophenol																		
1600	4-Nitrophenol																		
330	Dibenzofuran					130	J							2500	J	100	J		
330	2,4-Dinitrotoluene																		
330	Diethylphthalate					210	J	220	J										
330	4-Chlorophenyl-phenylether																		
330	Fluorene					120	J							4700	J	170	J	83	J
1600	4-Nitroaniline																		
1600	4,6-Dinitro-2-methylphenol																		

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: B N A S 3

Site Name: Fedders Cuyo Component SOIL SAMPLES (ug/Kg)

Case #: 9002-359 Sampling Date(s): _____

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SB-3C		SB-3D		SB-4A		SB-4B		SB-4C		SB-4D		SED-1		SED-2		SED-3	
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		10.0		5.0		1.0	
	% Moisture	16		15		14		10		11		11		58		34		31	
	Location																		
330	N-Nitrosodiphenylamine																		
330	4-Bromophenyl phenylether																		
330	Hexachlorobenzene																		
1600	Pentachlorophenol																		
330	Phenanthrene					1300								50000		1700	J	690	
330	Anthracene					250	J							11000		380	J	140	J
330	Di-n-butylphthalate					48	J					93	J	1600	B	1640	B	68	B
330	Fluoranthene					1400								52000		2100	J	980	
330	Pyrene					1400								70000		1900	J	1200	
330	Butylbenzylphthalate																		
1600	3,3 Dichlorobenzidine																		
330	Benzo(a)anthracene					770								34000		1300	J	580	
330	Chrysene					860								34000		1400	J	620	
330	bis(2-Ethylhexyl)phthalate	260	B	160	B	130	B	100	B	73	B	85	B	4900	B	1800	B	940	B
330	Di-n-octylphthalate																		
330	Benzo(b)fluoranthene					1100								27000		1400	J	750	
330	Benzo(k)fluoranthene					470								20000		730	J	500	
330	Benzo(a)pyrene					840								29000		1600	J	740	
330	Indeno(1,2,3-cd)pyrene					1650								19000		1200	J		
330	Dibenz(a,h)anthracene					150	J							4800	J	260	J	83	J
330	Benzo(g,h,i)perylene					360								16000		1500	J	510	

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: P E S T I C I D E S A N D P C B S

Site Name: Fedders Auto Component

Case #: 9002-359 Sampling Date(s): _____

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SB-1A		SB-1B		SB-1C		SB-1D		SB-2A		SB-2B		SB-2C		SB-3A		SB-3B	
	Dilution Factor	5.0		5.0		1.0		1.0		400		10.0		5.0		4.0		5.0	
	% Moisture	10		20		16		17		14		14		14		10		8	
	Location																		
8	alpha-BHC																		
8	beta-BHC																		
8	delta-BHC																		
8	Gamma-BHC (Lindane)																		
8	Heptachlor																		
8	Aldrin																		
8	Heptachlor Epoxide																		
8	Endosulfan I																		
16	Dieldrin																		
16	4,4'-DDE																		
16	Endrin																		
16	Endosulfan II																		
16	4,4'-DDD																		
16	Endosulfan Sulfate																		
16	4,4'-DDT																		
80	Methoxychlor																		
16	Endrin ketone																		
80	Alpha-Chlordane																		
80	Gamma-Chlordane																		
160	Toxaphene																		
80	Aroclor-1016																		
80	Aroclor-1221																		
80	Aroclor-1232																		
80	Aroclor-1242																		
80	Aroclor-1248																		
160	Aroclor-1254																		
160	Aroclor-1260																		

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Feddes Auto Components SOIL SAMPLES (ug/Kg)

Case #: 9002-359 Sampling Date(s): _____

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

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CRQL	COMPOUND	Sample No.	SB-3C		SB-3D		SB-4A		SB-4B		SB-4C		SB-4D		SED-1		SED-2		SED-3	
		Dilution Factor	1.0		1.0		4.0		1.0		1.0		1.0		10.0		2.0		1.0	
		% Moisture	16		15		14		10		11		11		58		54		31	
		Location																		
8	alpha-BHC																			
8	beta-BHC																			
8	delta-BHC																			
8	Gamma-BHC (Lindane)																			
8	Heptachlor																			
8	Aldrin																			
8	Heptachlor Epoxide																			
8	Endosulfan I																			
16	Dieldrin																			
16	4,4'-DDE																			
16	Endrin																			
16	Endosulfan II																			
16	4,4'-DDD																			
16	Endosulfan Sulfate																			
16	4,4'-DDT																			
80	Methoxychlor																			
16	Endrin ketone																			
80	Alpha-Chlordane																			
80	Gamma-Chlordane																			
160	Toxaphene																			
80	Aroclor-1016																			
80	Aroclor-1221																			
80	Aroclor-1232																			
80	Aroclor-1242																			
80	Aroclor-1248																			
160	Aroclor-1254														3400	J			200	J
160	Aroclor-1260																4600	J		

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

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DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date: _____

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((1 - % moisture/100)

CRQL	COMPOUND																			
	Sample No.	SB-3A		SED-1																
	Dilution Factor	2.0		10.0																
	% Moisture	10		58																
	Location																			
	CAS# 90120 Naphthalene, 1-methyl	440	J																	
	CAS# 132650 Dibenzothiophene			2800	J															
	CAS# 86748 9H-Carbazole			3700	J															

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: I N O R G A N I C S

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

SOIL SAMPLES (mg/Kg)

*Due to dilution, sample quantitation limit is affected. See dilution table for specifics.

CRDL	ANALYTE	SB-1A		SB-1B		SB-1C		SB-1D		SB-2A		SB-2B		SB-2C		SB-3A		SB-3B		SB-3C	
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	% Solids	90.5		80.2		83.9		82.6		86.1		86.0		86.5		89.6		91.5		84.4	
	Location																				
40	Aluminum	6210		5610		7680		7330		6190		5310		7480		11400		6760		14000	
12	Antimony		UL		UL		UL		UL		UL	[12.3]	L		UL		UL		UL		UL
2	Arsenic	14.7	L	37.1	L	2.7	L	3.5	L	5.7	L	25.5	L	7.2	L	9.5	L	10.6	L	3.1	L
40	Barium	117		79.7		98.2		71.0		79.8		162.0		93.2		123		85.3		110	
1	Beryllium	[0.52]	B	[0.46]	B	[0.29]	B	[0.30]	B	[0.27]	B	[0.34]	B	[0.31]	B	[0.53]					
1	Cadmium	7.0		6.2		2.5		2.5		2.5		2.6		3.5		3.7		2.9		3.9	
1000	Calcium	125000		31300		71400		70800		90800		41200		61400		58200		29900		53300	
2	Chromium	304	L	51.4	L	12.6	L	13.6	L	13.1	L	16.3	L	19.0	L	77.3	L	39.2	L	21.1	L
10	Cobalt	[3.9]		[5.7]		[5.5]		[8.4]				[4.9]		[5.5]		[5.5]		[4.5]		15.5	
5	Copper	196		36		16.5		16.2		116		70.4		135		310		269		19.7	
20	Iron	41700		40300		16900		17200		15100		18000		18800		22200		17800		25000	
1	*Lead	234		39.2		9.1		9.9		380		222		431		456		300		16.8	
1000	Magnesium	15900		53100		21100		21300		17900		8850		14900		4150		3060		13300	
3	Manganese	1550		2050		393		446		757		419		569		9750		4520		668	
0.2	Mercury	0.38								0.34		1.2		0.49		0.14		0.14			
8	Nickel	11.4		36.6		17.7		20.7		11.8		22.6		18.7		9.0		14.6		28.3	
1000	Potassium	[484]		[601]		1660		1550		[855]		[898]		1170		1130		[732]		2380	
1	Selenium		UL	[0.25]	L		UL		UL	[0.23]	L	[0.27]	L	[0.30]	L		UL		L		L
2	Silver	[2.1]														[2.0]					
1000	Sodium	[404]		[430]		[298]		[323]		[382]		[305]		[271]		[500]		[394]		[539]	
2	Thallium																				
10	Vanadium	140	L	33.5	L	17.1	L	16.8	L	16.2	L	14.3	L	19.5	L	77.2	L	43.4	L	26.6	L
4	Zinc	375		470		60.2		92.4		243		170		450		317		468		65.5	
2	Cyanide	1.3		89.5				3.5		1.2		2.8						8.8			

CRDL = Contract Required Detection Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

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DATA SUMMARY FORM: I N O R G A N I C S

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

SOIL SAMPLES (mg/Kg)

*Due to dilution, sample quantitation limit is affected. See dilution table for specifics.

CRDL	ANALYTE	SB-3D		SB-4A		SB-4B		SB-4C		SB-4D		SED-1		SED-2		SED-3	
	Sample No.	SB-3D		SB-4A		SB-4B		SB-4C		SB-4D		SED-1		SED-2		SED-3	
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	% Solids	85.0		85.9		90.5		88.9		89.0		41.7		43.8		69.2	
	Location																
40	Aluminum	16100		6680		14000		8730		9350		10800		6500		1480	
12	Antimony		UL		UL		UL		UL		UL		UL		UL		UL
2	Arsenic	[2.1]	L	15.8	L	7.8	L	4.4	L	3.4	L	11.0	L	5.9	L	[2.7]	L
40	Barium	103		185		102		70.5		95		238		98.0		[23.1]	
1	Beryllium																
1	Cadmium	3.1		5.7		3.5		2.2		2.7		10.6		4.5		4.5	
1000	Calcium	2010		17300		16800		64300		57300		94300		136000		9470	
2	Chromium	21.6	L	20.0	L	18.8	L	13.6	L	15.4	L	76.7	L	33.2	L	16.8	L
10	Cobalt	[10.9]		[6.0]		11.9		[7.5]		[8.6]		[8.0]					
5	Copper	17.2		227		16.8		14.1		29.1		390		192		362	
20	Iron	22700		27600		23700		17100		18000		25800		17100		13300	
1	*Lead	11.6		391		14.2		10.9		31.8		615		502		9890	
1000	Magnesium	5820		4970		11900		20900		17500		12300		12400		1840	
3	Manganese	139		1720		376		366		445		536		367		109	
0.2	Mercury			0.14								1.82		0.37			
8	Nickel	22.8		23.5		24.1		19.1		20.0		42.9		23.1		26.2	
1000	Potassium	1210		[877]		1280		1380		1400		[1280]		[1090]		[161]	
1	Selenium		UL		UL		UL		UL		UL	[1.2]	L	[0.50]	L		UL
2	Silver																
1000	Sodium	[317]		[379]		[443]		[286]		[275]		[1340]		[390]			
2	Thallium																
10	Vanadium	26.5	L	21.7	L	24.1	L	17.6	L	17.8	L	32.4	L	[21.3]	L	[6.0]	L
4	Zinc	68.8		718		72.5		56.9		80.5		918		824		856	
2	Cyanide																

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

GLOSSARY OF DATA QUALIFIERS

CODES RELATING TO IDENTIFICATION

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm results.

CODES RELATING TO QUANTITATION

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value expected to be higher.

[]= Inorganic analyte present. As values approach the IDL the quantitation may not be accurate.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

2020 BE3
REMEDIAL INVESTIGATION/ ALTERNATIVES ANALYSIS REPORT

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-01 6-8'
Lab Sample ID: 196242-01 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**3.10**	mg/Kg		12/26/2019 19:12
Barium	**95.0**	mg/Kg		12/26/2019 19:12
Beryllium	**0.590**	mg/Kg		12/26/2019 19:12
Cadmium	**1.80**	mg/Kg		12/26/2019 19:12
Chromium	**17.3**	mg/Kg		12/26/2019 19:12
Copper	**14.3**	mg/Kg		12/26/2019 19:12
Lead	**9.46**	mg/Kg		12/26/2019 19:12
Manganese	**465**	mg/Kg		12/26/2019 19:12
Nickel	**19.4**	mg/Kg		12/26/2019 19:12
Selenium	< 1.12	mg/Kg		12/26/2019 19:12
Silver	**0.503**	mg/Kg	J	12/26/2019 19:12
Zinc	**57.3**	mg/Kg		12/26/2019 19:12

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/23/2019
Data File: 191226C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-01 6-8'		
Lab Sample ID:	196242-01	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0111**	mg/Kg		12/23/2019 10:25

Method Reference(s): EPA 7471B
Preparation Date: 12/20/2019
Data File: Hg191223A

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-01 6-8'		
Lab Sample ID:	196242-01	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0336	mg/Kg		12/20/2019 16:46
PCB-1221	< 0.0336	mg/Kg		12/20/2019 16:46
PCB-1232	< 0.0336	mg/Kg		12/20/2019 16:46
PCB-1242	< 0.0336	mg/Kg		12/20/2019 16:46
PCB-1248	< 0.0336	mg/Kg		12/20/2019 16:46
PCB-1254	< 0.0336	mg/Kg		12/20/2019 16:46
PCB-1260	< 0.0336	mg/Kg		12/20/2019 16:46
PCB-1262	< 0.0336	mg/Kg		12/20/2019 16:46
PCB-1268	< 0.0336	mg/Kg		12/20/2019 16:46

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**60.9**	18.3 - 89.6		12/20/2019 16:46

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/20/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-01 6-8'
Lab Sample ID: 196242-01 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.36	ug/Kg		12/20/2019 19:20
4,4-DDE	< 3.36	ug/Kg		12/20/2019 19:20
4,4-DDT	< 3.36	ug/Kg		12/20/2019 19:20
Aldrin	< 3.36	ug/Kg		12/20/2019 19:20
alpha-BHC	< 3.36	ug/Kg		12/20/2019 19:20
beta-BHC	< 3.36	ug/Kg		12/20/2019 19:20
cis-Chlordane	< 3.36	ug/Kg		12/20/2019 19:20
delta-BHC	< 3.36	ug/Kg		12/20/2019 19:20
Dieldrin	< 3.36	ug/Kg		12/20/2019 19:20
Endosulfan I	< 3.36	ug/Kg		12/20/2019 19:20
Endosulfan II	< 3.36	ug/Kg		12/20/2019 19:20
Endosulfan Sulfate	< 3.36	ug/Kg		12/20/2019 19:20
Endrin	< 3.36	ug/Kg		12/20/2019 19:20
Endrin Aldehyde	< 3.36	ug/Kg		12/20/2019 19:20
Endrin Ketone	< 3.36	ug/Kg		12/20/2019 19:20
gamma-BHC (Lindane)	< 3.36	ug/Kg		12/20/2019 19:20
Heptachlor	< 3.36	ug/Kg		12/20/2019 19:20
Heptachlor Epoxide	< 3.36	ug/Kg		12/20/2019 19:20
Methoxychlor	< 3.36	ug/Kg		12/20/2019 19:20
Toxaphene	< 33.6	ug/Kg		12/20/2019 19:20
trans-Chlordane	< 3.36	ug/Kg		12/20/2019 19:20

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-01 6-8'
Lab Sample ID: 196242-01 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**40.0**	30.7 - 111		12/20/2019 19:20
Tetrachloro-m-xylene (1)	**50.4**	34.7 - 87.3		12/20/2019 19:20

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/20/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-01 6-8'
Lab Sample ID: 196242-01 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 336	ug/Kg		12/27/2019 15:23
1,2,4,5-Tetrachlorobenzene	< 336	ug/Kg		12/27/2019 15:23
1,2,4-Trichlorobenzene	< 336	ug/Kg		12/27/2019 15:23
1,2-Dichlorobenzene	< 336	ug/Kg		12/27/2019 15:23
1,3-Dichlorobenzene	< 336	ug/Kg		12/27/2019 15:23
1,4-Dichlorobenzene	< 336	ug/Kg		12/27/2019 15:23
2,2-Oxybis (1-chloropropane)	< 336	ug/Kg		12/27/2019 15:23
2,3,4,6-Tetrachlorophenol	< 336	ug/Kg		12/27/2019 15:23
2,4,5-Trichlorophenol	< 336	ug/Kg		12/27/2019 15:23
2,4,6-Trichlorophenol	< 336	ug/Kg		12/27/2019 15:23
2,4-Dichlorophenol	< 336	ug/Kg		12/27/2019 15:23
2,4-Dimethylphenol	< 336	ug/Kg		12/27/2019 15:23
2,4-Dinitrophenol	< 1350	ug/Kg		12/27/2019 15:23
2,4-Dinitrotoluene	< 336	ug/Kg		12/27/2019 15:23
2,6-Dinitrotoluene	< 336	ug/Kg		12/27/2019 15:23
2-Chloronaphthalene	< 336	ug/Kg		12/27/2019 15:23
2-Chlorophenol	< 336	ug/Kg		12/27/2019 15:23
2-Methylnapthalene	< 336	ug/Kg		12/27/2019 15:23
2-Methylphenol	< 336	ug/Kg		12/27/2019 15:23
2-Nitroaniline	< 336	ug/Kg		12/27/2019 15:23
2-Nitrophenol	< 336	ug/Kg		12/27/2019 15:23
3&4-Methylphenol	< 336	ug/Kg		12/27/2019 15:23
3,3'-Dichlorobenzidine	< 336	ug/Kg		12/27/2019 15:23

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ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-01 6-8'
Lab Sample ID: 196242-01 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

3-Nitroaniline	< 336	ug/Kg	12/27/2019	15:23
4,6-Dinitro-2-methylphenol	< 673	ug/Kg	12/27/2019	15:23
4-Bromophenyl phenyl ether	< 336	ug/Kg	12/27/2019	15:23
4-Chloro-3-methylphenol	< 336	ug/Kg	12/27/2019	15:23
4-Chloroaniline	< 336	ug/Kg	12/27/2019	15:23
4-Chlorophenyl phenyl ether	< 336	ug/Kg	12/27/2019	15:23
4-Nitroaniline	< 336	ug/Kg	12/27/2019	15:23
4-Nitrophenol	< 336	ug/Kg	12/27/2019	15:23
Acenaphthene	< 336	ug/Kg	12/27/2019	15:23
Acenaphthylene	< 336	ug/Kg	12/27/2019	15:23
Acetophenone	< 336	ug/Kg	12/27/2019	15:23
Anthracene	< 336	ug/Kg	12/27/2019	15:23
Atrazine	< 336	ug/Kg	12/27/2019	15:23
Benzaldehyde	< 336	ug/Kg	12/27/2019	15:23
Benzo (a) anthracene	< 336	ug/Kg	12/27/2019	15:23
Benzo (a) pyrene	< 336	ug/Kg	12/27/2019	15:23
Benzo (b) fluoranthene	< 336	ug/Kg	12/27/2019	15:23
Benzo (g,h,i) perylene	< 336	ug/Kg	12/27/2019	15:23
Benzo (k) fluoranthene	< 336	ug/Kg	12/27/2019	15:23
Bis (2-chloroethoxy) methane	< 336	ug/Kg	12/27/2019	15:23
Bis (2-chloroethyl) ether	< 336	ug/Kg	12/27/2019	15:23
Bis (2-ethylhexyl) phthalate	< 336	ug/Kg	12/27/2019	15:23
Butylbenzylphthalate	< 336	ug/Kg	12/27/2019	15:23
Caprolactam	< 336	ug/Kg	12/27/2019	15:23
Carbazole	< 336	ug/Kg	12/27/2019	15:23

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ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-01 6-8'
Lab Sample ID: 196242-01 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Chrysene	< 336	ug/Kg	12/27/2019	15:23
Dibenz (a,h) anthracene	< 336	ug/Kg	12/27/2019	15:23
Dibenzofuran	< 336	ug/Kg	12/27/2019	15:23
Diethyl phthalate	< 336	ug/Kg	12/27/2019	15:23
Dimethyl phthalate	< 336	ug/Kg	12/27/2019	15:23
Di-n-butyl phthalate	< 336	ug/Kg	12/27/2019	15:23
Di-n-octylphthalate	< 336	ug/Kg	12/27/2019	15:23
Fluoranthene	< 336	ug/Kg	12/27/2019	15:23
Fluorene	< 336	ug/Kg	12/27/2019	15:23
Hexachlorobenzene	< 336	ug/Kg	12/27/2019	15:23
Hexachlorobutadiene	< 336	ug/Kg	12/27/2019	15:23
Hexachlorocyclopentadiene	< 1350	ug/Kg	12/27/2019	15:23
Hexachloroethane	< 336	ug/Kg	12/27/2019	15:23
Indeno (1,2,3-cd) pyrene	< 336	ug/Kg	12/27/2019	15:23
Isophorone	< 336	ug/Kg	12/27/2019	15:23
Naphthalene	< 336	ug/Kg	12/27/2019	15:23
Nitrobenzene	< 336	ug/Kg	12/27/2019	15:23
N-Nitroso-di-n-propylamine	< 336	ug/Kg	12/27/2019	15:23
N-Nitrosodiphenylamine	< 336	ug/Kg	12/27/2019	15:23
Pentachlorophenol	< 673	ug/Kg	12/27/2019	15:23
Phenanthrene	< 336	ug/Kg	12/27/2019	15:23
Phenol	< 336	ug/Kg	12/27/2019	15:23
Pyrene	< 336	ug/Kg	12/27/2019	15:23

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-01 6-8'
Lab Sample ID: 196242-01 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**60.8**	35.1 - 89.5		12/27/2019 15:23
2-Fluorobiphenyl	**60.9**	37.7 - 81.4		12/27/2019 15:23
2-Fluorophenol	**60.6**	40.2 - 77		12/27/2019 15:23
Nitrobenzene-d5	**57.8**	36.2 - 78.4		12/27/2019 15:23
Phenol-d5	**59.2**	41.2 - 77.1		12/27/2019 15:23
Terphenyl-d14	**64.7**	39.8 - 97.5		12/27/2019 15:23

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2019
Data File: B43389.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-01 6-8'
Lab Sample ID: 196242-01 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.86	ug/Kg		12/26/2019 20:57
1,1,2,2-Tetrachloroethane	< 4.86	ug/Kg		12/26/2019 20:57
1,1,2-Trichloroethane	< 4.86	ug/Kg		12/26/2019 20:57
1,1-Dichloroethane	< 4.86	ug/Kg		12/26/2019 20:57
1,1-Dichloroethene	< 4.86	ug/Kg		12/26/2019 20:57
1,2,3-Trichlorobenzene	< 12.2	ug/Kg		12/26/2019 20:57
1,2,4-Trichlorobenzene	< 12.2	ug/Kg		12/26/2019 20:57
1,2,4-Trimethylbenzene	< 4.86	ug/Kg		12/26/2019 20:57
1,2-Dibromo-3-Chloropropane	< 24.3	ug/Kg		12/26/2019 20:57
1,2-Dibromoethane	< 4.86	ug/Kg		12/26/2019 20:57
1,2-Dichlorobenzene	< 4.86	ug/Kg		12/26/2019 20:57
1,2-Dichloroethane	< 4.86	ug/Kg		12/26/2019 20:57
1,2-Dichloropropane	< 4.86	ug/Kg		12/26/2019 20:57
1,3,5-Trimethylbenzene	< 4.86	ug/Kg		12/26/2019 20:57
1,3-Dichlorobenzene	< 4.86	ug/Kg		12/26/2019 20:57
1,4-Dichlorobenzene	< 4.86	ug/Kg		12/26/2019 20:57
1,4-Dioxane	< 48.6	ug/Kg		12/26/2019 20:57
2-Butanone	< 24.3	ug/Kg		12/26/2019 20:57
2-Hexanone	< 12.2	ug/Kg		12/26/2019 20:57
4-Methyl-2-pentanone	< 12.2	ug/Kg		12/26/2019 20:57
Acetone	< 24.3	ug/Kg		12/26/2019 20:57
Benzene	< 4.86	ug/Kg		12/26/2019 20:57
Bromochloromethane	< 12.2	ug/Kg		12/26/2019 20:57

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Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-01 6-8'
Lab Sample ID: 196242-01 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Bromodichloromethane	< 4.86	ug/Kg	12/26/2019	20:57
Bromoform	< 12.2	ug/Kg	12/26/2019	20:57
Bromomethane	< 4.86	ug/Kg	12/26/2019	20:57
Carbon disulfide	< 4.86	ug/Kg	12/26/2019	20:57
Carbon Tetrachloride	< 4.86	ug/Kg	12/26/2019	20:57
Chlorobenzene	< 4.86	ug/Kg	12/26/2019	20:57
Chloroethane	< 4.86	ug/Kg	12/26/2019	20:57
Chloroform	< 4.86	ug/Kg	12/26/2019	20:57
Chloromethane	< 4.86	ug/Kg	12/26/2019	20:57
cis-1,2-Dichloroethene	**22.4**	ug/Kg	12/26/2019	20:57
cis-1,3-Dichloropropene	< 4.86	ug/Kg	12/26/2019	20:57
Cyclohexane	< 24.3	ug/Kg	12/26/2019	20:57
Dibromochloromethane	< 4.86	ug/Kg	12/26/2019	20:57
Dichlorodifluoromethane	< 4.86	ug/Kg	12/26/2019	20:57
Ethylbenzene	< 4.86	ug/Kg	12/26/2019	20:57
Freon 113	< 4.86	ug/Kg	12/26/2019	20:57
Isopropylbenzene	< 4.86	ug/Kg	12/26/2019	20:57
m,p-Xylene	< 4.86	ug/Kg	12/26/2019	20:57
Methyl acetate	< 4.86	ug/Kg	12/26/2019	20:57
Methyl tert-butyl Ether	< 4.86	ug/Kg	12/26/2019	20:57
Methylcyclohexane	< 4.86	ug/Kg	12/26/2019	20:57
Methylene chloride	< 12.2	ug/Kg	12/26/2019	20:57
Naphthalene	< 12.2	ug/Kg	12/26/2019	20:57
n-Butylbenzene	< 4.86	ug/Kg	12/26/2019	20:57
n-Propylbenzene	< 4.86	ug/Kg	12/26/2019	20:57

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-01 6-8'
Lab Sample ID: 196242-01 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

o-Xylene	< 4.86	ug/Kg	12/26/2019	20:57
p-Isopropyltoluene	< 4.86	ug/Kg	12/26/2019	20:57
sec-Butylbenzene	< 4.86	ug/Kg	12/26/2019	20:57
Styrene	< 12.2	ug/Kg	12/26/2019	20:57
tert-Butylbenzene	< 4.86	ug/Kg	12/26/2019	20:57
Tetrachloroethene	< 4.86	ug/Kg	12/26/2019	20:57
Toluene	< 4.86	ug/Kg	12/26/2019	20:57
trans-1,2-Dichloroethene	**31.4**	ug/Kg	12/26/2019	20:57
trans-1,3-Dichloropropene	< 4.86	ug/Kg	12/26/2019	20:57
Trichloroethene	**8.24**	ug/Kg	12/26/2019	20:57
Trichlorofluoromethane	< 4.86	ug/Kg	12/26/2019	20:57
Vinyl chloride	< 4.86	ug/Kg	12/26/2019	20:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**125**	67.9 - 146		12/26/2019	20:57
4-Bromofluorobenzene	**76.4**	64.6 - 127		12/26/2019	20:57
Pentafluorobenzene	**93.6**	85.5 - 113		12/26/2019	20:57
Toluene-D8	**87.7**	83.9 - 114		12/26/2019	20:57

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x67490.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-01 6-8'		
Lab Sample ID:	196242-01	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**0.704**	mg/Kg		12/27/2019

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-01 6-8'		
Lab Sample ID:	196242-01	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**82.6**	%		12/20/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-01 6-8'		
Lab Sample ID:	196242-01	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 33.6	ug/Kg		12/31/2019 11:37

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/20/2019
Data File: B43444.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-04 1-3'		
Lab Sample ID:	196242-02	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**14.4**	mg/Kg		12/26/2019 19:17
Barium	**87.9**	mg/Kg		12/26/2019 19:17
Beryllium	**1.13**	mg/Kg		12/26/2019 19:17
Cadmium	**1.36**	mg/Kg		12/26/2019 19:17
Chromium	**17.6**	mg/Kg		12/26/2019 19:17
Copper	**23.2**	mg/Kg		12/26/2019 19:17
Lead	**160**	mg/Kg		12/26/2019 19:17
Manganese	**594**	mg/Kg		12/26/2019 19:17
Nickel	**8.49**	mg/Kg		12/26/2019 19:17
Selenium	**1.59**	mg/Kg		12/26/2019 19:17
Silver	**0.530**	mg/Kg	J	12/26/2019 19:17
Zinc	**1810**	mg/Kg		1/2/2020 09:58

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/23/2019
Data File: 191226C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-04 1-3'		
Lab Sample ID:	196242-02	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.167**	mg/Kg		12/23/2019 10:27

Method Reference(s): EPA 7471B
Preparation Date: 12/20/2019
Data File: Hg191223A

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-04 1-3'
Lab Sample ID: 196242-02 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0349	mg/Kg		12/20/2019 17:11
PCB-1221	< 0.0349	mg/Kg		12/20/2019 17:11
PCB-1232	< 0.0349	mg/Kg		12/20/2019 17:11
PCB-1242	< 0.0349	mg/Kg		12/20/2019 17:11
PCB-1248	< 0.0349	mg/Kg		12/20/2019 17:11
PCB-1254	< 0.0349	mg/Kg		12/20/2019 17:11
PCB-1260	< 0.0349	mg/Kg		12/20/2019 17:11
PCB-1262	< 0.0349	mg/Kg		12/20/2019 17:11
PCB-1268	< 0.0349	mg/Kg		12/20/2019 17:11

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**33.3**	18.3 - 89.6		12/20/2019 17:11

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 12/20/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-04 1-3'
Lab Sample ID: 196242-02 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**6.99**	ug/Kg	P	12/20/2019 19:38
4,4-DDE	< 3.49	ug/Kg		12/20/2019 19:38
4,4-DDT	**4.34**	ug/Kg	P	12/20/2019 19:38
Aldrin	< 3.49	ug/Kg		12/20/2019 19:38
alpha-BHC	< 3.49	ug/Kg		12/20/2019 19:38
beta-BHC	< 3.49	ug/Kg		12/20/2019 19:38
cis-Chlordane	< 3.49	ug/Kg		12/20/2019 19:38
delta-BHC	**3.09**	ug/Kg	J	12/20/2019 19:38
Dieldrin	< 3.49	ug/Kg		12/20/2019 19:38
Endosulfan I	< 3.49	ug/Kg		12/20/2019 19:38
Endosulfan II	**2.27**	ug/Kg	JP	12/20/2019 19:38
Endosulfan Sulfate	**3.53**	ug/Kg	P	12/20/2019 19:38
Endrin	< 3.49	ug/Kg		12/20/2019 19:38
Endrin Aldehyde	< 3.49	ug/Kg		12/20/2019 19:38
Endrin Ketone	< 3.49	ug/Kg		12/20/2019 19:38
gamma-BHC (Lindane)	< 3.49	ug/Kg		12/20/2019 19:38
Heptachlor	< 3.49	ug/Kg		12/20/2019 19:38
Heptachlor Epoxide	< 3.49	ug/Kg		12/20/2019 19:38
Methoxychlor	**13.7**	ug/Kg	P	12/20/2019 19:38
Toxaphene	< 34.9	ug/Kg		12/20/2019 19:38
trans-Chlordane	< 3.49	ug/Kg		12/20/2019 19:38

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-04 1-3'
Lab Sample ID: 196242-02 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**42.8**	30.7 - 111		12/20/2019 19:38
Tetrachloro-m-xylene (1)	**43.9**	34.7 - 87.3		12/20/2019 19:38

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/20/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-04 1-3'
Lab Sample ID: 196242-02 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 365	ug/Kg		12/27/2019 15:52
1,2,4,5-Tetrachlorobenzene	< 365	ug/Kg		12/27/2019 15:52
1,2,4-Trichlorobenzene	< 365	ug/Kg		12/27/2019 15:52
1,2-Dichlorobenzene	< 365	ug/Kg		12/27/2019 15:52
1,3-Dichlorobenzene	< 365	ug/Kg		12/27/2019 15:52
1,4-Dichlorobenzene	< 365	ug/Kg		12/27/2019 15:52
2,2-Oxybis (1-chloropropane)	< 365	ug/Kg		12/27/2019 15:52
2,3,4,6-Tetrachlorophenol	< 365	ug/Kg		12/27/2019 15:52
2,4,5-Trichlorophenol	< 365	ug/Kg		12/27/2019 15:52
2,4,6-Trichlorophenol	< 365	ug/Kg		12/27/2019 15:52
2,4-Dichlorophenol	< 365	ug/Kg		12/27/2019 15:52
2,4-Dimethylphenol	< 365	ug/Kg		12/27/2019 15:52
2,4-Dinitrophenol	< 1460	ug/Kg		12/27/2019 15:52
2,4-Dinitrotoluene	< 365	ug/Kg		12/27/2019 15:52
2,6-Dinitrotoluene	< 365	ug/Kg		12/27/2019 15:52
2-Chloronaphthalene	< 365	ug/Kg		12/27/2019 15:52
2-Chlorophenol	< 365	ug/Kg		12/27/2019 15:52
2-Methylnapthalene	**1850**	ug/Kg		12/27/2019 15:52
2-Methylphenol	< 365	ug/Kg		12/27/2019 15:52
2-Nitroaniline	< 365	ug/Kg		12/27/2019 15:52
2-Nitrophenol	< 365	ug/Kg		12/27/2019 15:52
3&4-Methylphenol	< 365	ug/Kg		12/27/2019 15:52
3,3'-Dichlorobenzidine	< 365	ug/Kg		12/27/2019 15:52

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-04 1-3'
Lab Sample ID: 196242-02 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

3-Nitroaniline	< 365	ug/Kg		12/27/2019	15:52
4,6-Dinitro-2-methylphenol	< 730	ug/Kg		12/27/2019	15:52
4-Bromophenyl phenyl ether	< 365	ug/Kg		12/27/2019	15:52
4-Chloro-3-methylphenol	< 365	ug/Kg		12/27/2019	15:52
4-Chloroaniline	< 365	ug/Kg		12/27/2019	15:52
4-Chlorophenyl phenyl ether	< 365	ug/Kg		12/27/2019	15:52
4-Nitroaniline	< 365	ug/Kg		12/27/2019	15:52
4-Nitrophenol	< 365	ug/Kg		12/27/2019	15:52
Acenaphthene	< 365	ug/Kg		12/27/2019	15:52
Acenaphthylene	**204**	ug/Kg	J	12/27/2019	15:52
Acetophenone	< 365	ug/Kg		12/27/2019	15:52
Anthracene	**291**	ug/Kg	J	12/27/2019	15:52
Atrazine	< 365	ug/Kg		12/27/2019	15:52
Benzaldehyde	< 365	ug/Kg		12/27/2019	15:52
Benzo (a) anthracene	**1270**	ug/Kg		12/27/2019	15:52
Benzo (a) pyrene	**1010**	ug/Kg		12/27/2019	15:52
Benzo (b) fluoranthene	**978**	ug/Kg		12/27/2019	15:52
Benzo (g,h,i) perylene	**702**	ug/Kg		12/27/2019	15:52
Benzo (k) fluoranthene	**1160**	ug/Kg		12/27/2019	15:52
Bis (2-chloroethoxy) methane	< 365	ug/Kg		12/27/2019	15:52
Bis (2-chloroethyl) ether	< 365	ug/Kg		12/27/2019	15:52
Bis (2-ethylhexyl) phthalate	< 365	ug/Kg		12/27/2019	15:52
Butylbenzylphthalate	< 365	ug/Kg		12/27/2019	15:52
Caprolactam	< 365	ug/Kg		12/27/2019	15:52
Carbazole	< 365	ug/Kg		12/27/2019	15:52

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-04 1-3'
Lab Sample ID: 196242-02 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Chrysene	**1340**	ug/Kg	12/27/2019	15:52
Dibenz (a,h) anthracene	< 365	ug/Kg	12/27/2019	15:52
Dibenzofuran	**571**	ug/Kg	12/27/2019	15:52
Diethyl phthalate	< 365	ug/Kg	12/27/2019	15:52
Dimethyl phthalate	< 365	ug/Kg	12/27/2019	15:52
Di-n-butyl phthalate	< 365	ug/Kg	12/27/2019	15:52
Di-n-octylphthalate	< 365	ug/Kg	12/27/2019	15:52
Fluoranthene	**2420**	ug/Kg	12/27/2019	15:52
Fluorene	< 365	ug/Kg	12/27/2019	15:52
Hexachlorobenzene	< 365	ug/Kg	12/27/2019	15:52
Hexachlorobutadiene	< 365	ug/Kg	12/27/2019	15:52
Hexachlorocyclopentadiene	< 1460	ug/Kg	12/27/2019	15:52
Hexachloroethane	< 365	ug/Kg	12/27/2019	15:52
Indeno (1,2,3-cd) pyrene	**761**	ug/Kg	12/27/2019	15:52
Isophorone	< 365	ug/Kg	12/27/2019	15:52
Naphthalene	**1170**	ug/Kg	12/27/2019	15:52
Nitrobenzene	< 365	ug/Kg	12/27/2019	15:52
N-Nitroso-di-n-propylamine	< 365	ug/Kg	12/27/2019	15:52
N-Nitrosodiphenylamine	< 365	ug/Kg	12/27/2019	15:52
Pentachlorophenol	< 730	ug/Kg	12/27/2019	15:52
Phenanthrene	**1940**	ug/Kg	12/27/2019	15:52
Phenol	< 365	ug/Kg	12/27/2019	15:52
Pyrene	**1840**	ug/Kg	12/27/2019	15:52

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-04 1-3'
Lab Sample ID: 196242-02 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**52.8**	35.1 - 89.5		12/27/2019 15:52
2-Fluorobiphenyl	**54.1**	37.7 - 81.4		12/27/2019 15:52
2-Fluorophenol	**50.4**	40.2 - 77		12/27/2019 15:52
Nitrobenzene-d5	**50.1**	36.2 - 78.4		12/27/2019 15:52
Phenol-d5	**50.7**	41.2 - 77.1		12/27/2019 15:52
Terphenyl-d14	**53.4**	39.8 - 97.5		12/27/2019 15:52

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2019
Data File: B43390.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-04 1-3'
Lab Sample ID: 196242-02 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 171	ug/Kg		12/30/2019 14:03
1,1,2,2-Tetrachloroethane	< 171	ug/Kg		12/30/2019 14:03
1,1,2-Trichloroethane	< 171	ug/Kg		12/30/2019 14:03
1,1-Dichloroethane	< 171	ug/Kg		12/30/2019 14:03
1,1-Dichloroethene	< 171	ug/Kg		12/30/2019 14:03
1,2,3-Trichlorobenzene	< 428	ug/Kg		12/30/2019 14:03
1,2,4-Trichlorobenzene	< 428	ug/Kg		12/30/2019 14:03
1,2,4-Trimethylbenzene	< 171	ug/Kg		12/30/2019 14:03
1,2-Dibromo-3-Chloropropane	< 857	ug/Kg		12/30/2019 14:03
1,2-Dibromoethane	< 171	ug/Kg		12/30/2019 14:03
1,2-Dichlorobenzene	< 171	ug/Kg		12/30/2019 14:03
1,2-Dichloroethane	< 171	ug/Kg		12/30/2019 14:03
1,2-Dichloropropane	< 171	ug/Kg		12/30/2019 14:03
1,3,5-Trimethylbenzene	< 171	ug/Kg		12/30/2019 14:03
1,3-Dichlorobenzene	< 171	ug/Kg		12/30/2019 14:03
1,4-Dichlorobenzene	< 171	ug/Kg		12/30/2019 14:03
1,4-Dioxane	< 1710	ug/Kg		12/30/2019 14:03
2-Butanone	< 857	ug/Kg		12/30/2019 14:03
2-Hexanone	< 428	ug/Kg		12/30/2019 14:03
4-Methyl-2-pentanone	< 428	ug/Kg		12/30/2019 14:03
Acetone	< 857	ug/Kg		12/30/2019 14:03
Benzene	< 171	ug/Kg		12/30/2019 14:03
Bromochloromethane	< 428	ug/Kg		12/30/2019 14:03

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-04 1-3'
Lab Sample ID: 196242-02 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Bromodichloromethane	< 171	ug/Kg	12/30/2019	14:03
Bromoform	< 428	ug/Kg	12/30/2019	14:03
Bromomethane	< 171	ug/Kg	12/30/2019	14:03
Carbon disulfide	< 171	ug/Kg	12/30/2019	14:03
Carbon Tetrachloride	< 171	ug/Kg	12/30/2019	14:03
Chlorobenzene	< 171	ug/Kg	12/30/2019	14:03
Chloroethane	< 171	ug/Kg	12/30/2019	14:03
Chloroform	< 171	ug/Kg	12/30/2019	14:03
Chloromethane	< 171	ug/Kg	12/30/2019	14:03
cis-1,2-Dichloroethene	**8390**	ug/Kg	12/30/2019	14:03
cis-1,3-Dichloropropene	< 171	ug/Kg	12/30/2019	14:03
Cyclohexane	< 857	ug/Kg	12/30/2019	14:03
Dibromochloromethane	< 171	ug/Kg	12/30/2019	14:03
Dichlorodifluoromethane	< 171	ug/Kg	12/30/2019	14:03
Ethylbenzene	< 171	ug/Kg	12/30/2019	14:03
Freon 113	< 171	ug/Kg	12/30/2019	14:03
Isopropylbenzene	< 171	ug/Kg	12/30/2019	14:03
m,p-Xylene	< 171	ug/Kg	12/30/2019	14:03
Methyl acetate	< 171	ug/Kg	12/30/2019	14:03
Methyl tert-butyl Ether	< 171	ug/Kg	12/30/2019	14:03
Methylcyclohexane	< 171	ug/Kg	12/30/2019	14:03
Methylene chloride	< 428	ug/Kg	12/30/2019	14:03
Naphthalene	< 428	ug/Kg	12/30/2019	14:03
n-Butylbenzene	< 171	ug/Kg	12/30/2019	14:03
n-Propylbenzene	< 171	ug/Kg	12/30/2019	14:03

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-04 1-3'
Lab Sample ID: 196242-02 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

o-Xylene	< 171	ug/Kg		12/30/2019	14:03
p-Isopropyltoluene	< 171	ug/Kg		12/30/2019	14:03
sec-Butylbenzene	< 171	ug/Kg		12/30/2019	14:03
Styrene	< 428	ug/Kg		12/30/2019	14:03
tert-Butylbenzene	< 171	ug/Kg		12/30/2019	14:03
Tetrachloroethene	< 171	ug/Kg		12/30/2019	14:03
Toluene	< 171	ug/Kg		12/30/2019	14:03
trans-1,2-Dichloroethene	**153**	ug/Kg	J	12/30/2019	14:03
trans-1,3-Dichloropropene	< 171	ug/Kg		12/30/2019	14:03
Trichloroethene	**1360**	ug/Kg		12/30/2019	14:03
Trichlorofluoromethane	< 171	ug/Kg		12/30/2019	14:03
Vinyl chloride	**3550**	ug/Kg		12/30/2019	14:03

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**118**	67.9 - 146		12/30/2019	14:03
4-Bromofluorobenzene	**79.2**	64.6 - 127		12/30/2019	14:03
Pentafluorobenzene	**94.2**	85.5 - 113		12/30/2019	14:03
Toluene-D8	**90.4**	83.9 - 114		12/30/2019	14:03

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x67531.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-04 1-3'		
Lab Sample ID:	196242-02	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**188**	mg/Kg		12/27/2019

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-04 1-3'		
Lab Sample ID:	196242-02	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 36.5	ug/Kg		12/31/2019 11:48

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/20/2019
Data File: B43445.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 1-3'
Lab Sample ID: 196242-03 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**16.8**	mg/Kg		12/26/2019 19:21
Barium	**89.6**	mg/Kg		12/26/2019 19:21
Beryllium	**0.718**	mg/Kg		12/26/2019 19:21
Cadmium	**1.76**	mg/Kg		12/26/2019 19:21
Chromium	**29.9**	mg/Kg		12/26/2019 19:21
Copper	**129**	mg/Kg		12/26/2019 19:21
Lead	**152**	mg/Kg		12/26/2019 19:21
Manganese	**578**	mg/Kg		12/26/2019 19:21
Nickel	**17.8**	mg/Kg		12/26/2019 19:21
Selenium	**1.49**	mg/Kg		12/26/2019 19:21
Silver	**0.796**	mg/Kg		12/26/2019 19:21
Zinc	**1350**	mg/Kg		1/2/2020 10:02

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/23/2019
Data File: 191226C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-08 1-3'		
Lab Sample ID:	196242-03	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.128**	mg/Kg		12/23/2019 10:29

Method Reference(s): EPA 7471B
Preparation Date: 12/20/2019
Data File: Hg191223A

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-08 1-3'		
Lab Sample ID:	196242-03	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0432	mg/Kg		12/20/2019 17:35
PCB-1221	< 0.0432	mg/Kg		12/20/2019 17:35
PCB-1232	< 0.0432	mg/Kg		12/20/2019 17:35
PCB-1242	< 0.0432	mg/Kg		12/20/2019 17:35
PCB-1248	< 0.0432	mg/Kg		12/20/2019 17:35
PCB-1254	< 0.0432	mg/Kg		12/20/2019 17:35
PCB-1260	< 0.0432	mg/Kg		12/20/2019 17:35
PCB-1262	< 0.0432	mg/Kg		12/20/2019 17:35
PCB-1268	< 0.0432	mg/Kg		12/20/2019 17:35

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**27.4**	18.3 - 89.6		12/20/2019 17:35

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/20/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 1-3'
Lab Sample ID: 196242-03 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**7.21**	ug/Kg	P	12/20/2019 19:57
4,4-DDE	< 4.32	ug/Kg		12/20/2019 19:57
4,4-DDT	**9.06**	ug/Kg		12/20/2019 19:57
Aldrin	< 4.32	ug/Kg		12/20/2019 19:57
alpha-BHC	< 4.32	ug/Kg		12/20/2019 19:57
beta-BHC	< 4.32	ug/Kg		12/20/2019 19:57
cis-Chlordane	< 4.32	ug/Kg		12/20/2019 19:57
delta-BHC	< 4.32	ug/Kg		12/20/2019 19:57
Dieldrin	< 4.32	ug/Kg		12/20/2019 19:57
Endosulfan I	< 4.32	ug/Kg		12/20/2019 19:57
Endosulfan II	< 4.32	ug/Kg		12/20/2019 19:57
Endosulfan Sulfate	**10.8**	ug/Kg		12/20/2019 19:57
Endrin	**3.68**	ug/Kg	JP	12/20/2019 19:57
Endrin Aldehyde	< 4.32	ug/Kg		12/20/2019 19:57
Endrin Ketone	**6.30**	ug/Kg	P	12/20/2019 19:57
gamma-BHC (Lindane)	**2.90**	ug/Kg	JP	12/20/2019 19:57
Heptachlor	< 4.32	ug/Kg		12/20/2019 19:57
Heptachlor Epoxide	< 4.32	ug/Kg		12/20/2019 19:57
Methoxychlor	**15.8**	ug/Kg	P	12/20/2019 19:57
Toxaphene	< 43.2	ug/Kg		12/20/2019 19:57
trans-Chlordane	< 4.32	ug/Kg		12/20/2019 19:57

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 1-3'
Lab Sample ID: 196242-03 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**32.2**	30.7 - 111		12/20/2019 19:57
Tetrachloro-m-xylene (1)	**27.0**	34.7 - 87.3	*	12/20/2019 19:57

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/20/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 1-3'
Lab Sample ID: 196242-03 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 801	ug/Kg		12/27/2019 16:22
1,2,4,5-Tetrachlorobenzene	< 801	ug/Kg		12/27/2019 16:22
1,2,4-Trichlorobenzene	< 801	ug/Kg		12/27/2019 16:22
1,2-Dichlorobenzene	< 801	ug/Kg		12/27/2019 16:22
1,3-Dichlorobenzene	< 801	ug/Kg		12/27/2019 16:22
1,4-Dichlorobenzene	< 801	ug/Kg		12/27/2019 16:22
2,2-Oxybis (1-chloropropane)	< 801	ug/Kg		12/27/2019 16:22
2,3,4,6-Tetrachlorophenol	< 801	ug/Kg		12/27/2019 16:22
2,4,5-Trichlorophenol	< 801	ug/Kg		12/27/2019 16:22
2,4,6-Trichlorophenol	< 801	ug/Kg		12/27/2019 16:22
2,4-Dichlorophenol	< 801	ug/Kg		12/27/2019 16:22
2,4-Dimethylphenol	< 801	ug/Kg		12/27/2019 16:22
2,4-Dinitrophenol	< 3200	ug/Kg		12/27/2019 16:22
2,4-Dinitrotoluene	< 801	ug/Kg		12/27/2019 16:22
2,6-Dinitrotoluene	< 801	ug/Kg		12/27/2019 16:22
2-Chloronaphthalene	< 801	ug/Kg		12/27/2019 16:22
2-Chlorophenol	< 801	ug/Kg		12/27/2019 16:22
2-Methylnapthalene	< 801	ug/Kg		12/27/2019 16:22
2-Methylphenol	< 801	ug/Kg		12/27/2019 16:22
2-Nitroaniline	< 801	ug/Kg		12/27/2019 16:22
2-Nitrophenol	< 801	ug/Kg		12/27/2019 16:22
3&4-Methylphenol	< 801	ug/Kg		12/27/2019 16:22
3,3'-Dichlorobenzidine	< 801	ug/Kg		12/27/2019 16:22

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 1-3'
Lab Sample ID: 196242-03 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

3-Nitroaniline	< 801	ug/Kg		12/27/2019	16:22
4,6-Dinitro-2-methylphenol	< 1600	ug/Kg		12/27/2019	16:22
4-Bromophenyl phenyl ether	< 801	ug/Kg		12/27/2019	16:22
4-Chloro-3-methylphenol	< 801	ug/Kg		12/27/2019	16:22
4-Chloroaniline	< 801	ug/Kg		12/27/2019	16:22
4-Chlorophenyl phenyl ether	< 801	ug/Kg		12/27/2019	16:22
4-Nitroaniline	< 801	ug/Kg		12/27/2019	16:22
4-Nitrophenol	< 801	ug/Kg		12/27/2019	16:22
Acenaphthene	**525**	ug/Kg	J	12/27/2019	16:22
Acenaphthylene	**833**	ug/Kg		12/27/2019	16:22
Acetophenone	< 801	ug/Kg		12/27/2019	16:22
Anthracene	**2280**	ug/Kg		12/27/2019	16:22
Atrazine	< 801	ug/Kg		12/27/2019	16:22
Benzaldehyde	< 801	ug/Kg		12/27/2019	16:22
Benzo (a) anthracene	**6090**	ug/Kg		12/27/2019	16:22
Benzo (a) pyrene	**4710**	ug/Kg		12/27/2019	16:22
Benzo (b) fluoranthene	**5740**	ug/Kg		12/27/2019	16:22
Benzo (g,h,i) perylene	**2890**	ug/Kg		12/27/2019	16:22
Benzo (k) fluoranthene	**3290**	ug/Kg		12/27/2019	16:22
Bis (2-chloroethoxy) methane	< 801	ug/Kg		12/27/2019	16:22
Bis (2-chloroethyl) ether	< 801	ug/Kg		12/27/2019	16:22
Bis (2-ethylhexyl) phthalate	< 801	ug/Kg		12/27/2019	16:22
Butylbenzylphthalate	< 801	ug/Kg		12/27/2019	16:22
Caprolactam	< 801	ug/Kg		12/27/2019	16:22
Carbazole	**1380**	ug/Kg		12/27/2019	16:22

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 1-3'
Lab Sample ID: 196242-03 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Chrysene	**5740**	ug/Kg		12/27/2019	16:22
Dibenz (a,h) anthracene	**704**	ug/Kg	J	12/27/2019	16:22
Dibenzofuran	**803**	ug/Kg		12/27/2019	16:22
Diethyl phthalate	< 801	ug/Kg		12/27/2019	16:22
Dimethyl phthalate	< 801	ug/Kg		12/27/2019	16:22
Di-n-butyl phthalate	< 801	ug/Kg		12/27/2019	16:22
Di-n-octylphthalate	< 801	ug/Kg		12/27/2019	16:22
Fluoranthene	**16600**	ug/Kg		12/27/2019	16:22
Fluorene	**1080**	ug/Kg		12/27/2019	16:22
Hexachlorobenzene	< 801	ug/Kg		12/27/2019	16:22
Hexachlorobutadiene	< 801	ug/Kg		12/27/2019	16:22
Hexachlorocyclopentadiene	< 3200	ug/Kg		12/27/2019	16:22
Hexachloroethane	< 801	ug/Kg		12/27/2019	16:22
Indeno (1,2,3-cd) pyrene	**3350**	ug/Kg		12/27/2019	16:22
Isophorone	< 801	ug/Kg		12/27/2019	16:22
Naphthalene	**828**	ug/Kg		12/27/2019	16:22
Nitrobenzene	< 801	ug/Kg		12/27/2019	16:22
N-Nitroso-di-n-propylamine	< 801	ug/Kg		12/27/2019	16:22
N-Nitrosodiphenylamine	< 801	ug/Kg		12/27/2019	16:22
Pentachlorophenol	< 1600	ug/Kg		12/27/2019	16:22
Phenanthrene	**9850**	ug/Kg		12/27/2019	16:22
Phenol	< 801	ug/Kg		12/27/2019	16:22
Pyrene	**12100**	ug/Kg		12/27/2019	16:22

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 1-3'
Lab Sample ID: 196242-03 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**51.3**	35.1 - 89.5		12/27/2019 16:22
2-Fluorobiphenyl	**53.3**	37.7 - 81.4		12/27/2019 16:22
2-Fluorophenol	**52.3**	40.2 - 77		12/27/2019 16:22
Nitrobenzene-d5	**40.1**	36.2 - 78.4		12/27/2019 16:22
Phenol-d5	**51.7**	41.2 - 77.1		12/27/2019 16:22
Terphenyl-d14	**52.9**	39.8 - 97.5		12/27/2019 16:22

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2019
Data File: B43391.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 1-3'
Lab Sample ID: 196242-03 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 5.35	ug/Kg		12/26/2019 21:42
1,1,2,2-Tetrachloroethane	< 5.35	ug/Kg		12/26/2019 21:42
1,1,2-Trichloroethane	< 5.35	ug/Kg		12/26/2019 21:42
1,1-Dichloroethane	< 5.35	ug/Kg		12/26/2019 21:42
1,1-Dichloroethene	< 5.35	ug/Kg		12/26/2019 21:42
1,2,3-Trichlorobenzene	< 13.4	ug/Kg		12/26/2019 21:42
1,2,4-Trichlorobenzene	< 13.4	ug/Kg		12/26/2019 21:42
1,2,4-Trimethylbenzene	< 5.35	ug/Kg		12/26/2019 21:42
1,2-Dibromo-3-Chloropropane	< 26.7	ug/Kg		12/26/2019 21:42
1,2-Dibromoethane	< 5.35	ug/Kg		12/26/2019 21:42
1,2-Dichlorobenzene	< 5.35	ug/Kg		12/26/2019 21:42
1,2-Dichloroethane	< 5.35	ug/Kg		12/26/2019 21:42
1,2-Dichloropropane	< 5.35	ug/Kg		12/26/2019 21:42
1,3,5-Trimethylbenzene	< 5.35	ug/Kg		12/26/2019 21:42
1,3-Dichlorobenzene	< 5.35	ug/Kg		12/26/2019 21:42
1,4-Dichlorobenzene	< 5.35	ug/Kg		12/26/2019 21:42
1,4-Dioxane	< 53.5	ug/Kg		12/26/2019 21:42
2-Butanone	< 26.7	ug/Kg		12/26/2019 21:42
2-Hexanone	< 13.4	ug/Kg		12/26/2019 21:42
4-Methyl-2-pentanone	< 13.4	ug/Kg		12/26/2019 21:42
Acetone	**15.8**	ug/Kg	J	12/26/2019 21:42
Benzene	< 5.35	ug/Kg		12/26/2019 21:42
Bromochloromethane	< 13.4	ug/Kg		12/26/2019 21:42

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 1-3'
Lab Sample ID: 196242-03 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Bromodichloromethane	< 5.35	ug/Kg	12/26/2019	21:42
Bromoform	< 13.4	ug/Kg	12/26/2019	21:42
Bromomethane	< 5.35	ug/Kg	12/26/2019	21:42
Carbon disulfide	< 5.35	ug/Kg	12/26/2019	21:42
Carbon Tetrachloride	< 5.35	ug/Kg	12/26/2019	21:42
Chlorobenzene	< 5.35	ug/Kg	12/26/2019	21:42
Chloroethane	< 5.35	ug/Kg	12/26/2019	21:42
Chloroform	< 5.35	ug/Kg	12/26/2019	21:42
Chloromethane	< 5.35	ug/Kg	12/26/2019	21:42
cis-1,2-Dichloroethene	< 5.35	ug/Kg	12/26/2019	21:42
cis-1,3-Dichloropropene	< 5.35	ug/Kg	12/26/2019	21:42
Cyclohexane	< 26.7	ug/Kg	12/26/2019	21:42
Dibromochloromethane	< 5.35	ug/Kg	12/26/2019	21:42
Dichlorodifluoromethane	< 5.35	ug/Kg	12/26/2019	21:42
Ethylbenzene	< 5.35	ug/Kg	12/26/2019	21:42
Freon 113	< 5.35	ug/Kg	12/26/2019	21:42
Isopropylbenzene	< 5.35	ug/Kg	12/26/2019	21:42
m,p-Xylene	< 5.35	ug/Kg	12/26/2019	21:42
Methyl acetate	< 5.35	ug/Kg	12/26/2019	21:42
Methyl tert-butyl Ether	< 5.35	ug/Kg	12/26/2019	21:42
Methylcyclohexane	< 5.35	ug/Kg	12/26/2019	21:42
Methylene chloride	< 13.4	ug/Kg	12/26/2019	21:42
Naphthalene	< 13.4	ug/Kg	12/26/2019	21:42
n-Butylbenzene	< 5.35	ug/Kg	12/26/2019	21:42
n-Propylbenzene	< 5.35	ug/Kg	12/26/2019	21:42

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 1-3'
Lab Sample ID: 196242-03 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

o-Xylene	< 5.35	ug/Kg		12/26/2019 21:42
p-Isopropyltoluene	< 5.35	ug/Kg		12/26/2019 21:42
sec-Butylbenzene	< 5.35	ug/Kg		12/26/2019 21:42
Styrene	< 13.4	ug/Kg		12/26/2019 21:42
tert-Butylbenzene	< 5.35	ug/Kg		12/26/2019 21:42
Tetrachloroethene	< 5.35	ug/Kg		12/26/2019 21:42
Toluene	< 5.35	ug/Kg		12/26/2019 21:42
trans-1,2-Dichloroethene	**15.0**	ug/Kg		12/26/2019 21:42
trans-1,3-Dichloropropene	< 5.35	ug/Kg		12/26/2019 21:42
Trichloroethene	< 5.35	ug/Kg		12/26/2019 21:42
Trichlorofluoromethane	< 5.35	ug/Kg		12/26/2019 21:42
Vinyl chloride	< 5.35	ug/Kg		12/26/2019 21:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**128**	67.9 - 146		12/26/2019 21:42
4-Bromofluorobenzene	**73.4**	64.6 - 127		12/26/2019 21:42
Pentafluorobenzene	**92.4**	85.5 - 113		12/26/2019 21:42
Toluene-D8	**86.6**	83.9 - 114		12/26/2019 21:42

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x67492.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-08 1-3'		
Lab Sample ID:	196242-03	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**26.1**	mg/Kg		12/27/2019

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 12/27/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-08 1-3'		
Lab Sample ID:	196242-03	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**65.4**	%		12/20/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-08 1-3'		
Lab Sample ID:	196242-03	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 40.2	ug/Kg		12/31/2019 11:59

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/20/2019
Data File: B43446.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-08 Duplicate		
Lab Sample ID:	196242-04	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**15.1**	mg/Kg		1/2/2020 10:06
Barium	**134**	mg/Kg		1/2/2020 10:06
Beryllium	**0.372**	mg/Kg		1/2/2020 10:06
Cadmium	**0.661**	mg/Kg		1/2/2020 10:06
Chromium	**34.5**	mg/Kg		1/2/2020 10:06
Copper	**86.7**	mg/Kg		1/2/2020 10:06
Lead	**176**	mg/Kg		1/2/2020 10:06
Manganese	**834**	mg/Kg		12/26/2020 19:26
Nickel	**10.6**	mg/Kg		1/2/2020 10:06
Selenium	**2.08**	mg/Kg		1/2/2020 10:06
Silver	< 0.616	mg/Kg		1/2/2020 10:06
Zinc	**1170**	mg/Kg		12/26/2020 19:26

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/23/2019
Data File: 200102A

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-08 Duplicate		
Lab Sample ID:	196242-04	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.248**	mg/Kg		12/23/2019 10:31

Method Reference(s): EPA 7471B
Preparation Date: 12/20/2019
Data File: Hg191223A

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-08 Duplicate		
Lab Sample ID:	196242-04	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0342	mg/Kg		12/23/2019 16:02
PCB-1221	< 0.0342	mg/Kg		12/23/2019 16:02
PCB-1232	< 0.0342	mg/Kg		12/23/2019 16:02
PCB-1242	< 0.0342	mg/Kg		12/23/2019 16:02
PCB-1248	< 0.0342	mg/Kg		12/23/2019 16:02
PCB-1254	< 0.0342	mg/Kg		12/23/2019 16:02
PCB-1260	< 0.0342	mg/Kg		12/23/2019 16:02
PCB-1262	< 0.0342	mg/Kg		12/23/2019 16:02
PCB-1268	< 0.0342	mg/Kg		12/23/2019 16:02

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**27.9**	18.3 - 89.6		12/23/2019 16:02

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/20/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 Duplicate
Lab Sample ID: 196242-04 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 6.85	ug/Kg		12/24/2019 18:34
4,4-DDE	**12.0**	ug/Kg	P	12/24/2019 18:34
4,4-DDT	**25.1**	ug/Kg	P	12/24/2019 18:34
Aldrin	**36.3**	ug/Kg	P	12/24/2019 18:34
alpha-BHC	**4.50**	ug/Kg	JP	12/24/2019 18:34
beta-BHC	< 6.85	ug/Kg		12/24/2019 18:34
cis-Chlordane	**45.1**	ug/Kg	P	12/24/2019 18:34
delta-BHC	< 6.85	ug/Kg		12/24/2019 18:34
Dieldrin	< 6.85	ug/Kg		12/24/2019 18:34
Endosulfan I	< 6.85	ug/Kg		12/24/2019 18:34
Endosulfan II	< 6.85	ug/Kg		12/24/2019 18:34
Endosulfan Sulfate	**110**	ug/Kg		12/24/2019 18:34
Endrin	**21.6**	ug/Kg	P	12/24/2019 18:34
Endrin Aldehyde	**57.0**	ug/Kg	P	12/24/2019 18:34
Endrin Ketone	**108**	ug/Kg	P	12/24/2019 18:34
gamma-BHC (Lindane)	**6.01**	ug/Kg	JP	12/24/2019 18:34
Heptachlor	< 6.85	ug/Kg		12/24/2019 18:34
Heptachlor Epoxide	< 6.85	ug/Kg		12/24/2019 18:34
Methoxychlor	**121**	ug/Kg	P	12/24/2019 18:34
Toxaphene	< 68.5	ug/Kg		12/24/2019 18:34
trans-Chlordane	< 6.85	ug/Kg		12/24/2019 18:34

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 Duplicate
Lab Sample ID: 196242-04 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**1740**	30.7 - 111	*	12/24/2019 18:34
Tetrachloro-m-xylene (1)	**110**	34.7 - 87.3	*	12/24/2019 18:34

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/20/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 Duplicate
Lab Sample ID: 196242-04 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 35600	ug/Kg		12/27/2019 16:50
1,2,4,5-Tetrachlorobenzene	< 35600	ug/Kg		12/27/2019 16:50
1,2,4-Trichlorobenzene	< 35600	ug/Kg		12/27/2019 16:50
1,2-Dichlorobenzene	< 35600	ug/Kg		12/27/2019 16:50
1,3-Dichlorobenzene	< 35600	ug/Kg		12/27/2019 16:50
1,4-Dichlorobenzene	< 35600	ug/Kg		12/27/2019 16:50
2,2-Oxybis (1-chloropropane)	< 35600	ug/Kg		12/27/2019 16:50
2,3,4,6-Tetrachlorophenol	< 35600	ug/Kg		12/27/2019 16:50
2,4,5-Trichlorophenol	< 35600	ug/Kg		12/27/2019 16:50
2,4,6-Trichlorophenol	< 35600	ug/Kg		12/27/2019 16:50
2,4-Dichlorophenol	< 35600	ug/Kg		12/27/2019 16:50
2,4-Dimethylphenol	< 35600	ug/Kg		12/27/2019 16:50
2,4-Dinitrophenol	< 142000	ug/Kg		12/27/2019 16:50
2,4-Dinitrotoluene	< 35600	ug/Kg		12/27/2019 16:50
2,6-Dinitrotoluene	< 35600	ug/Kg		12/27/2019 16:50
2-Chloronaphthalene	< 35600	ug/Kg		12/27/2019 16:50
2-Chlorophenol	< 35600	ug/Kg		12/27/2019 16:50
2-Methylnapthalene	< 35600	ug/Kg		12/27/2019 16:50
2-Methylphenol	< 35600	ug/Kg		12/27/2019 16:50
2-Nitroaniline	< 35600	ug/Kg		12/27/2019 16:50
2-Nitrophenol	< 35600	ug/Kg		12/27/2019 16:50
3&4-Methylphenol	< 35600	ug/Kg		12/27/2019 16:50
3,3'-Dichlorobenzidine	< 35600	ug/Kg		12/27/2019 16:50

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 Duplicate
Lab Sample ID: 196242-04 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

3-Nitroaniline	< 35600	ug/Kg		12/27/2019	16:50
4,6-Dinitro-2-methylphenol	< 71100	ug/Kg		12/27/2019	16:50
4-Bromophenyl phenyl ether	< 35600	ug/Kg		12/27/2019	16:50
4-Chloro-3-methylphenol	< 35600	ug/Kg		12/27/2019	16:50
4-Chloroaniline	< 35600	ug/Kg		12/27/2019	16:50
4-Chlorophenyl phenyl ether	< 35600	ug/Kg		12/27/2019	16:50
4-Nitroaniline	< 35600	ug/Kg		12/27/2019	16:50
4-Nitrophenol	< 35600	ug/Kg		12/27/2019	16:50
Acenaphthene	**33200**	ug/Kg	J	12/27/2019	16:50
Acenaphthylene	**59300**	ug/Kg		12/27/2019	16:50
Acetophenone	< 35600	ug/Kg		12/27/2019	16:50
Anthracene	**144000**	ug/Kg		12/27/2019	16:50
Atrazine	< 35600	ug/Kg		12/27/2019	16:50
Benzaldehyde	< 35600	ug/Kg		12/27/2019	16:50
Benzo (a) anthracene	**273000**	ug/Kg		12/27/2019	16:50
Benzo (a) pyrene	**205000**	ug/Kg		12/27/2019	16:50
Benzo (b) fluoranthene	**145000**	ug/Kg		12/27/2019	16:50
Benzo (g,h,i) perylene	**105000**	ug/Kg		12/27/2019	16:50
Benzo (k) fluoranthene	**161000**	ug/Kg		12/27/2019	16:50
Bis (2-chloroethoxy) methane	< 35600	ug/Kg		12/27/2019	16:50
Bis (2-chloroethyl) ether	< 35600	ug/Kg		12/27/2019	16:50
Bis (2-ethylhexyl) phthalate	< 35600	ug/Kg		12/27/2019	16:50
Butylbenzylphthalate	< 35600	ug/Kg		12/27/2019	16:50
Caprolactam	< 35600	ug/Kg		12/27/2019	16:50
Carbazole	**40400**	ug/Kg		12/27/2019	16:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 Duplicate
Lab Sample ID: 196242-04 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Chrysene	**215000**	ug/Kg		12/27/2019	16:50
Dibenz (a,h) anthracene	**25000**	ug/Kg	J	12/27/2019	16:50
Dibenzofuran	**49500**	ug/Kg		12/27/2019	16:50
Diethyl phthalate	< 35600	ug/Kg		12/27/2019	16:50
Dimethyl phthalate	< 35600	ug/Kg		12/27/2019	16:50
Di-n-butyl phthalate	< 35600	ug/Kg		12/27/2019	16:50
Di-n-octylphthalate	< 35600	ug/Kg		12/27/2019	16:50
Fluoranthene	**643000**	ug/Kg		12/27/2019	16:50
Fluorene	**86900**	ug/Kg		12/27/2019	16:50
Hexachlorobenzene	< 35600	ug/Kg		12/27/2019	16:50
Hexachlorobutadiene	< 35600	ug/Kg		12/27/2019	16:50
Hexachlorocyclopentadiene	< 142000	ug/Kg		12/27/2019	16:50
Hexachloroethane	< 35600	ug/Kg		12/27/2019	16:50
Indeno (1,2,3-cd) pyrene	**113000**	ug/Kg		12/27/2019	16:50
Isophorone	< 35600	ug/Kg		12/27/2019	16:50
Naphthalene	**23300**	ug/Kg	J	12/27/2019	16:50
Nitrobenzene	< 35600	ug/Kg		12/27/2019	16:50
N-Nitroso-di-n-propylamine	< 35600	ug/Kg		12/27/2019	16:50
N-Nitrosodiphenylamine	< 35600	ug/Kg		12/27/2019	16:50
Pentachlorophenol	< 71100	ug/Kg		12/27/2019	16:50
Phenanthrene	**652000**	ug/Kg		12/27/2019	16:50
Phenol	< 35600	ug/Kg		12/27/2019	16:50
Pyrene	**471000**	ug/Kg		12/27/2019	16:50

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 Duplicate
Lab Sample ID: 196242-04 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	NC	35.1 - 89.5		12/27/2019 16:50
2-Fluorobiphenyl	NC	37.7 - 81.4		12/27/2019 16:50
2-Fluorophenol	NC	40.2 - 77		12/27/2019 16:50
Nitrobenzene-d5	NC	36.2 - 78.4		12/27/2019 16:50
Phenol-d5	NC	41.2 - 77.1		12/27/2019 16:50
Terphenyl-d14	NC	39.8 - 97.5		12/27/2019 16:50

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2019
Data File: B43392.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 Duplicate
Lab Sample ID: 196242-04 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 5.02	ug/Kg		12/26/2019 22:05
1,1,2,2-Tetrachloroethane	< 5.02	ug/Kg		12/26/2019 22:05
1,1,2-Trichloroethane	< 5.02	ug/Kg		12/26/2019 22:05
1,1-Dichloroethane	< 5.02	ug/Kg		12/26/2019 22:05
1,1-Dichloroethene	< 5.02	ug/Kg		12/26/2019 22:05
1,2,3-Trichlorobenzene	< 12.6	ug/Kg		12/26/2019 22:05
1,2,4-Trichlorobenzene	< 12.6	ug/Kg		12/26/2019 22:05
1,2,4-Trimethylbenzene	< 5.02	ug/Kg		12/26/2019 22:05
1,2-Dibromo-3-Chloropropane	< 25.1	ug/Kg		12/26/2019 22:05
1,2-Dibromoethane	< 5.02	ug/Kg		12/26/2019 22:05
1,2-Dichlorobenzene	< 5.02	ug/Kg		12/26/2019 22:05
1,2-Dichloroethane	< 5.02	ug/Kg		12/26/2019 22:05
1,2-Dichloropropane	< 5.02	ug/Kg		12/26/2019 22:05
1,3,5-Trimethylbenzene	< 5.02	ug/Kg		12/26/2019 22:05
1,3-Dichlorobenzene	< 5.02	ug/Kg		12/26/2019 22:05
1,4-Dichlorobenzene	< 5.02	ug/Kg		12/26/2019 22:05
1,4-Dioxane	< 50.2	ug/Kg		12/26/2019 22:05
2-Butanone	< 25.1	ug/Kg		12/26/2019 22:05
2-Hexanone	< 12.6	ug/Kg		12/26/2019 22:05
4-Methyl-2-pentanone	< 12.6	ug/Kg		12/26/2019 22:05
Acetone	**46.6**	ug/Kg		12/26/2019 22:05
Benzene	< 5.02	ug/Kg		12/26/2019 22:05
Bromochloromethane	< 12.6	ug/Kg		12/26/2019 22:05

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ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 Duplicate
Lab Sample ID: 196242-04 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Bromodichloromethane	< 5.02	ug/Kg	12/26/2019	22:05
Bromoform	< 12.6	ug/Kg	12/26/2019	22:05
Bromomethane	< 5.02	ug/Kg	12/26/2019	22:05
Carbon disulfide	< 5.02	ug/Kg	12/26/2019	22:05
Carbon Tetrachloride	< 5.02	ug/Kg	12/26/2019	22:05
Chlorobenzene	< 5.02	ug/Kg	12/26/2019	22:05
Chloroethane	< 5.02	ug/Kg	12/26/2019	22:05
Chloroform	< 5.02	ug/Kg	12/26/2019	22:05
Chloromethane	< 5.02	ug/Kg	12/26/2019	22:05
cis-1,2-Dichloroethene	< 5.02	ug/Kg	12/26/2019	22:05
cis-1,3-Dichloropropene	< 5.02	ug/Kg	12/26/2019	22:05
Cyclohexane	< 25.1	ug/Kg	12/26/2019	22:05
Dibromochloromethane	< 5.02	ug/Kg	12/26/2019	22:05
Dichlorodifluoromethane	< 5.02	ug/Kg	12/26/2019	22:05
Ethylbenzene	< 5.02	ug/Kg	12/26/2019	22:05
Freon 113	< 5.02	ug/Kg	12/26/2019	22:05
Isopropylbenzene	< 5.02	ug/Kg	12/26/2019	22:05
m,p-Xylene	< 5.02	ug/Kg	12/26/2019	22:05
Methyl acetate	< 5.02	ug/Kg	12/26/2019	22:05
Methyl tert-butyl Ether	< 5.02	ug/Kg	12/26/2019	22:05
Methylcyclohexane	< 5.02	ug/Kg	12/26/2019	22:05
Methylene chloride	< 12.6	ug/Kg	12/26/2019	22:05
Naphthalene	< 12.6	ug/Kg	12/26/2019	22:05
n-Butylbenzene	< 5.02	ug/Kg	12/26/2019	22:05
n-Propylbenzene	< 5.02	ug/Kg	12/26/2019	22:05

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-08 Duplicate
Lab Sample ID: 196242-04 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

o-Xylene	< 5.02	ug/Kg	12/26/2019	22:05
p-Isopropyltoluene	< 5.02	ug/Kg	12/26/2019	22:05
sec-Butylbenzene	< 5.02	ug/Kg	12/26/2019	22:05
Styrene	< 12.6	ug/Kg	12/26/2019	22:05
tert-Butylbenzene	< 5.02	ug/Kg	12/26/2019	22:05
Tetrachloroethene	< 5.02	ug/Kg	12/26/2019	22:05
Toluene	< 5.02	ug/Kg	12/26/2019	22:05
trans-1,2-Dichloroethene	**8.00**	ug/Kg	12/26/2019	22:05
trans-1,3-Dichloropropene	< 5.02	ug/Kg	12/26/2019	22:05
Trichloroethene	< 5.02	ug/Kg	12/26/2019	22:05
Trichlorofluoromethane	< 5.02	ug/Kg	12/26/2019	22:05
Vinyl chloride	**22.2**	ug/Kg	12/26/2019	22:05

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**122**	67.9 - 146		12/26/2019	22:05
4-Bromofluorobenzene	**56.4**	64.6 - 127	*	12/26/2019	22:05
Pentafluorobenzene	**93.6**	85.5 - 113		12/26/2019	22:05
Toluene-D8	**82.9**	83.9 - 114	*	12/26/2019	22:05

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x67493.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-08 Duplicate		
Lab Sample ID:	196242-04	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**30.4**	mg/Kg		12/27/2019

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-08 Duplicate		
Lab Sample ID:	196242-04	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 178	ug/Kg		12/31/2019 12:10

Reporting limit elevated due to sample matrix

Method Reference(s): EPA 8270D SIM
EPA 3546

Preparation Date: 12/20/2019

Data File: B43447.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-01 1-4'
Lab Sample ID: 196242-05 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**11.6**	mg/Kg		12/26/2019 18:33
Barium	**188**	mg/Kg		12/26/2019 18:33
Beryllium	**2.14**	mg/Kg		12/26/2019 18:33
Cadmium	**4.49**	mg/Kg		12/26/2019 18:33
Chromium	**82.1**	mg/Kg		12/26/2019 18:33
Copper	**86.9**	mg/Kg		12/26/2019 18:33
Lead	**97.2**	mg/Kg		12/26/2019 18:33
Manganese	**15000**	mg/Kg		12/26/2019 19:30
Nickel	**44.1**	mg/Kg		12/26/2019 18:33
Selenium	**3.51**	mg/Kg		12/26/2020 20:16
Silver	**4.75**	mg/Kg		12/26/2019 18:33
Zinc	**287**	mg/Kg		12/26/2019 18:33

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/23/2019
Data File: 191226C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-01 1-4'		
Lab Sample ID:	196242-05	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0377**	mg/Kg		12/23/2019 10:33

Method Reference(s): EPA 7471B
Preparation Date: 12/20/2019
Data File: Hg191223A

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Sample Identifier:	BH-01 1-4'		
Lab Sample ID:	196242-05	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0301	mg/Kg		12/20/2019 18:25
PCB-1221	< 0.0301	mg/Kg		12/20/2019 18:25
PCB-1232	< 0.0301	mg/Kg		12/20/2019 18:25
PCB-1242	< 0.0301	mg/Kg		12/20/2019 18:25
PCB-1248	< 0.0301	mg/Kg		12/20/2019 18:25
PCB-1254	< 0.0301	mg/Kg		12/20/2019 18:25
PCB-1260	< 0.0301	mg/Kg		12/20/2019 18:25
PCB-1262	< 0.0301	mg/Kg		12/20/2019 18:25
PCB-1268	< 0.0301	mg/Kg		12/20/2019 18:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**59.2**	18.3 - 89.6		12/20/2019 18:25

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/20/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-01 1-4'
Lab Sample ID: 196242-05 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.01	ug/Kg		12/20/2019 20:35
4,4-DDE	< 3.01	ug/Kg		12/20/2019 20:35
4,4-DDT	< 3.01	ug/Kg		12/20/2019 20:35
Aldrin	< 3.01	ug/Kg		12/20/2019 20:35
alpha-BHC	< 3.01	ug/Kg		12/20/2019 20:35
beta-BHC	< 3.01	ug/Kg		12/20/2019 20:35
cis-Chlordane	< 3.01	ug/Kg		12/20/2019 20:35
delta-BHC	< 3.01	ug/Kg		12/20/2019 20:35
Dieldrin	< 3.01	ug/Kg		12/20/2019 20:35
Endosulfan I	< 3.01	ug/Kg		12/20/2019 20:35
Endosulfan II	< 3.01	ug/Kg		12/20/2019 20:35
Endosulfan Sulfate	< 3.01	ug/Kg		12/20/2019 20:35
Endrin	< 3.01	ug/Kg		12/20/2019 20:35
Endrin Aldehyde	< 3.01	ug/Kg		12/20/2019 20:35
Endrin Ketone	< 3.01	ug/Kg		12/20/2019 20:35
gamma-BHC (Lindane)	< 3.01	ug/Kg		12/20/2019 20:35
Heptachlor	< 3.01	ug/Kg		12/20/2019 20:35
Heptachlor Epoxide	< 3.01	ug/Kg		12/20/2019 20:35
Methoxychlor	< 3.01	ug/Kg		12/20/2019 20:35
Toxaphene	< 30.1	ug/Kg		12/20/2019 20:35
trans-Chlordane	< 3.01	ug/Kg		12/20/2019 20:35

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Lab Project ID: 196242

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Lab Sample ID: 196242-05 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**56.8**	30.7 - 111		12/20/2019 20:35
Tetrachloro-m-xylene (1)	**53.8**	34.7 - 87.3		12/20/2019 20:35

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/20/2019

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PARADIGM
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Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-01 1-4'
Lab Sample ID: 196242-05 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 301	ug/Kg		12/27/2019 17:19
1,2,4,5-Tetrachlorobenzene	< 301	ug/Kg		12/27/2019 17:19
1,2,4-Trichlorobenzene	< 301	ug/Kg		12/27/2019 17:19
1,2-Dichlorobenzene	< 301	ug/Kg		12/27/2019 17:19
1,3-Dichlorobenzene	< 301	ug/Kg		12/27/2019 17:19
1,4-Dichlorobenzene	< 301	ug/Kg		12/27/2019 17:19
2,2-Oxybis (1-chloropropane)	< 301	ug/Kg		12/27/2019 17:19
2,3,4,6-Tetrachlorophenol	< 301	ug/Kg		12/27/2019 17:19
2,4,5-Trichlorophenol	< 301	ug/Kg		12/27/2019 17:19
2,4,6-Trichlorophenol	< 301	ug/Kg		12/27/2019 17:19
2,4-Dichlorophenol	< 301	ug/Kg		12/27/2019 17:19
2,4-Dimethylphenol	< 301	ug/Kg		12/27/2019 17:19
2,4-Dinitrophenol	< 1200	ug/Kg		12/27/2019 17:19
2,4-Dinitrotoluene	< 301	ug/Kg		12/27/2019 17:19
2,6-Dinitrotoluene	< 301	ug/Kg		12/27/2019 17:19
2-Chloronaphthalene	< 301	ug/Kg		12/27/2019 17:19
2-Chlorophenol	< 301	ug/Kg		12/27/2019 17:19
2-Methylnapthalene	< 301	ug/Kg		12/27/2019 17:19
2-Methylphenol	< 301	ug/Kg		12/27/2019 17:19
2-Nitroaniline	< 301	ug/Kg		12/27/2019 17:19
2-Nitrophenol	< 301	ug/Kg		12/27/2019 17:19
3&4-Methylphenol	< 301	ug/Kg		12/27/2019 17:19
3,3'-Dichlorobenzidine	< 301	ug/Kg		12/27/2019 17:19

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Project Reference: 57 Tonawanda

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Lab Sample ID:	196242-05	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

3-Nitroaniline	< 301	ug/Kg		12/27/2019	17:19
4,6-Dinitro-2-methylphenol	< 602	ug/Kg		12/27/2019	17:19
4-Bromophenyl phenyl ether	< 301	ug/Kg		12/27/2019	17:19
4-Chloro-3-methylphenol	< 301	ug/Kg		12/27/2019	17:19
4-Chloroaniline	< 301	ug/Kg		12/27/2019	17:19
4-Chlorophenyl phenyl ether	< 301	ug/Kg		12/27/2019	17:19
4-Nitroaniline	< 301	ug/Kg		12/27/2019	17:19
4-Nitrophenol	< 301	ug/Kg		12/27/2019	17:19
Acenaphthene	< 301	ug/Kg		12/27/2019	17:19
Acenaphthylene	< 301	ug/Kg		12/27/2019	17:19
Acetophenone	< 301	ug/Kg		12/27/2019	17:19
Anthracene	< 301	ug/Kg		12/27/2019	17:19
Atrazine	< 301	ug/Kg		12/27/2019	17:19
Benzaldehyde	< 301	ug/Kg		12/27/2019	17:19
Benzo (a) anthracene	**152**	ug/Kg	J	12/27/2019	17:19
Benzo (a) pyrene	< 301	ug/Kg		12/27/2019	17:19
Benzo (b) fluoranthene	< 301	ug/Kg		12/27/2019	17:19
Benzo (g,h,i) perylene	< 301	ug/Kg		12/27/2019	17:19
Benzo (k) fluoranthene	< 301	ug/Kg		12/27/2019	17:19
Bis (2-chloroethoxy) methane	< 301	ug/Kg		12/27/2019	17:19
Bis (2-chloroethyl) ether	< 301	ug/Kg		12/27/2019	17:19
Bis (2-ethylhexyl) phthalate	< 301	ug/Kg		12/27/2019	17:19
Butylbenzylphthalate	< 301	ug/Kg		12/27/2019	17:19
Caprolactam	< 301	ug/Kg		12/27/2019	17:19
Carbazole	< 301	ug/Kg		12/27/2019	17:19

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Chrysene	< 301	ug/Kg		12/27/2019	17:19
Dibenz (a,h) anthracene	< 301	ug/Kg		12/27/2019	17:19
Dibenzofuran	< 301	ug/Kg		12/27/2019	17:19
Diethyl phthalate	< 301	ug/Kg		12/27/2019	17:19
Dimethyl phthalate	< 301	ug/Kg		12/27/2019	17:19
Di-n-butyl phthalate	< 301	ug/Kg		12/27/2019	17:19
Di-n-octylphthalate	< 301	ug/Kg		12/27/2019	17:19
Fluoranthene	**367**	ug/Kg		12/27/2019	17:19
Fluorene	< 301	ug/Kg		12/27/2019	17:19
Hexachlorobenzene	< 301	ug/Kg		12/27/2019	17:19
Hexachlorobutadiene	< 301	ug/Kg		12/27/2019	17:19
Hexachlorocyclopentadiene	< 1200	ug/Kg		12/27/2019	17:19
Hexachloroethane	< 301	ug/Kg		12/27/2019	17:19
Indeno (1,2,3-cd) pyrene	< 301	ug/Kg		12/27/2019	17:19
Isophorone	< 301	ug/Kg		12/27/2019	17:19
Naphthalene	< 301	ug/Kg		12/27/2019	17:19
Nitrobenzene	< 301	ug/Kg		12/27/2019	17:19
N-Nitroso-di-n-propylamine	< 301	ug/Kg		12/27/2019	17:19
N-Nitrosodiphenylamine	< 301	ug/Kg		12/27/2019	17:19
Pentachlorophenol	< 602	ug/Kg		12/27/2019	17:19
Phenanthrene	**358**	ug/Kg		12/27/2019	17:19
Phenol	< 301	ug/Kg		12/27/2019	17:19
Pyrene	**234**	ug/Kg	J	12/27/2019	17:19

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Matrix: Soil **Date Received:** 12/19/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**55.3**	35.1 - 89.5		12/27/2019 17:19
2-Fluorobiphenyl	**57.0**	37.7 - 81.4		12/27/2019 17:19
2-Fluorophenol	**55.4**	40.2 - 77		12/27/2019 17:19
Nitrobenzene-d5	**28.6**	36.2 - 78.4	*	12/27/2019 17:19
Phenol-d5	**54.7**	41.2 - 77.1		12/27/2019 17:19
Terphenyl-d14	**55.4**	39.8 - 97.5		12/27/2019 17:19

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2019
Data File: B43393.D

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Lab Sample ID: 196242-05 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 3.96	ug/Kg		12/26/2019 22:28
1,1,2,2-Tetrachloroethane	< 3.96	ug/Kg		12/26/2019 22:28
1,1,2-Trichloroethane	< 3.96	ug/Kg		12/26/2019 22:28
1,1-Dichloroethane	< 3.96	ug/Kg		12/26/2019 22:28
1,1-Dichloroethene	< 3.96	ug/Kg		12/26/2019 22:28
1,2,3-Trichlorobenzene	< 9.90	ug/Kg		12/26/2019 22:28
1,2,4-Trichlorobenzene	< 9.90	ug/Kg		12/26/2019 22:28
1,2,4-Trimethylbenzene	< 3.96	ug/Kg		12/26/2019 22:28
1,2-Dibromo-3-Chloropropane	< 19.8	ug/Kg		12/26/2019 22:28
1,2-Dibromoethane	< 3.96	ug/Kg		12/26/2019 22:28
1,2-Dichlorobenzene	< 3.96	ug/Kg		12/26/2019 22:28
1,2-Dichloroethane	< 3.96	ug/Kg		12/26/2019 22:28
1,2-Dichloropropane	< 3.96	ug/Kg		12/26/2019 22:28
1,3,5-Trimethylbenzene	< 3.96	ug/Kg		12/26/2019 22:28
1,3-Dichlorobenzene	< 3.96	ug/Kg		12/26/2019 22:28
1,4-Dichlorobenzene	< 3.96	ug/Kg		12/26/2019 22:28
1,4-Dioxane	< 39.6	ug/Kg		12/26/2019 22:28
2-Butanone	< 19.8	ug/Kg		12/26/2019 22:28
2-Hexanone	< 9.90	ug/Kg		12/26/2019 22:28
4-Methyl-2-pentanone	< 9.90	ug/Kg		12/26/2019 22:28
Acetone	< 19.8	ug/Kg		12/26/2019 22:28
Benzene	< 3.96	ug/Kg		12/26/2019 22:28
Bromochloromethane	< 9.90	ug/Kg		12/26/2019 22:28

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Bromodichloromethane	< 3.96	ug/Kg	12/26/2019	22:28
Bromoform	< 9.90	ug/Kg	12/26/2019	22:28
Bromomethane	< 3.96	ug/Kg	12/26/2019	22:28
Carbon disulfide	< 3.96	ug/Kg	12/26/2019	22:28
Carbon Tetrachloride	< 3.96	ug/Kg	12/26/2019	22:28
Chlorobenzene	< 3.96	ug/Kg	12/26/2019	22:28
Chloroethane	< 3.96	ug/Kg	12/26/2019	22:28
Chloroform	< 3.96	ug/Kg	12/26/2019	22:28
Chloromethane	< 3.96	ug/Kg	12/26/2019	22:28
cis-1,2-Dichloroethene	< 3.96	ug/Kg	12/26/2019	22:28
cis-1,3-Dichloropropene	< 3.96	ug/Kg	12/26/2019	22:28
Cyclohexane	< 19.8	ug/Kg	12/26/2019	22:28
Dibromochloromethane	< 3.96	ug/Kg	12/26/2019	22:28
Dichlorodifluoromethane	< 3.96	ug/Kg	12/26/2019	22:28
Ethylbenzene	< 3.96	ug/Kg	12/26/2019	22:28
Freon 113	< 3.96	ug/Kg	12/26/2019	22:28
Isopropylbenzene	< 3.96	ug/Kg	12/26/2019	22:28
m,p-Xylene	< 3.96	ug/Kg	12/26/2019	22:28
Methyl acetate	< 3.96	ug/Kg	12/26/2019	22:28
Methyl tert-butyl Ether	< 3.96	ug/Kg	12/26/2019	22:28
Methylcyclohexane	< 3.96	ug/Kg	12/26/2019	22:28
Methylene chloride	< 9.90	ug/Kg	12/26/2019	22:28
Naphthalene	< 9.90	ug/Kg	12/26/2019	22:28
n-Butylbenzene	< 3.96	ug/Kg	12/26/2019	22:28
n-Propylbenzene	< 3.96	ug/Kg	12/26/2019	22:28

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Sample Identifier: BH-01 1-4'
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Matrix: Soil **Date Received:** 12/19/2019

o-Xylene	< 3.96	ug/Kg	12/26/2019	22:28
p-Isopropyltoluene	< 3.96	ug/Kg	12/26/2019	22:28
sec-Butylbenzene	< 3.96	ug/Kg	12/26/2019	22:28
Styrene	< 9.90	ug/Kg	12/26/2019	22:28
tert-Butylbenzene	< 3.96	ug/Kg	12/26/2019	22:28
Tetrachloroethene	< 3.96	ug/Kg	12/26/2019	22:28
Toluene	< 3.96	ug/Kg	12/26/2019	22:28
trans-1,2-Dichloroethene	**83.5**	ug/Kg	12/26/2019	22:28
trans-1,3-Dichloropropene	< 3.96	ug/Kg	12/26/2019	22:28
Trichloroethene	**10.0**	ug/Kg	12/26/2019	22:28
Trichlorofluoromethane	< 3.96	ug/Kg	12/26/2019	22:28
Vinyl chloride	< 3.96	ug/Kg	12/26/2019	22:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**129**	67.9 - 146		12/26/2019	22:28
4-Bromofluorobenzene	**62.8**	64.6 - 127	*	12/26/2019	22:28
Pentafluorobenzene	**90.4**	85.5 - 113		12/26/2019	22:28
Toluene-D8	**83.0**	83.9 - 114	*	12/26/2019	22:28

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x67494.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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Sample Identifier:	BH-01 1-4'		
Lab Sample ID:	196242-05	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.532	mg/Kg		12/27/2019

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

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Sample Identifier:	BH-01 1-4'		
Lab Sample ID:	196242-05	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**93.9**	%		12/20/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-01 1-4'		
Lab Sample ID:	196242-05	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 30.1	ug/Kg		1/2/2020 12:09

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/20/2019
Data File: B43479.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-8 10-12'
Lab Sample ID: 196242-06 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**1.28**	mg/Kg		1/2/2020 10:11
Barium	**156**	mg/Kg		1/2/2020 10:11
Beryllium	**1.17**	mg/Kg		1/2/2020 10:11
Cadmium	**1.33**	mg/Kg		1/2/2020 10:11
Chromium	**32.4**	mg/Kg		1/2/2020 10:11
Copper	**16.9**	mg/Kg		1/2/2020 10:11
Lead	**9.76**	mg/Kg		1/2/2020 10:11
Manganese	**1010**	mg/Kg		12/26/2020 19:34
Nickel	**32.0**	mg/Kg		1/2/2020 10:11
Selenium	**2.93**	mg/Kg		1/2/2020 10:11
Silver	< 0.619	mg/Kg		1/2/2020 10:11
Zinc	**72.0**	mg/Kg		1/2/2020 10:11

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/23/2019
Data File: 200102A

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-8 10-12'		
Lab Sample ID:	196242-06	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0212**	mg/Kg		12/23/2019 10:39

Method Reference(s): EPA 7471B
Preparation Date: 12/20/2019
Data File: Hg191223A

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-8 10-12'
Lab Sample ID: 196242-06 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0362	mg/Kg		12/20/2019 19:39
PCB-1221	< 0.0362	mg/Kg		12/20/2019 19:39
PCB-1232	< 0.0362	mg/Kg		12/20/2019 19:39
PCB-1242	< 0.0362	mg/Kg		12/20/2019 19:39
PCB-1248	< 0.0362	mg/Kg		12/20/2019 19:39
PCB-1254	< 0.0362	mg/Kg		12/20/2019 19:39
PCB-1260	< 0.0362	mg/Kg		12/20/2019 19:39
PCB-1262	< 0.0362	mg/Kg		12/20/2019 19:39
PCB-1268	< 0.0362	mg/Kg		12/20/2019 19:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**59.3**	18.3 - 89.6		12/20/2019 19:39

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 12/20/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-8 10-12'
Lab Sample ID: 196242-06 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.62	ug/Kg		12/20/2019 20:53
4,4-DDE	< 3.62	ug/Kg		12/20/2019 20:53
4,4-DDT	< 3.62	ug/Kg		12/20/2019 20:53
Aldrin	< 3.62	ug/Kg		12/20/2019 20:53
alpha-BHC	< 3.62	ug/Kg		12/20/2019 20:53
beta-BHC	< 3.62	ug/Kg		12/20/2019 20:53
cis-Chlordane	< 3.62	ug/Kg		12/20/2019 20:53
delta-BHC	< 3.62	ug/Kg		12/20/2019 20:53
Dieldrin	< 3.62	ug/Kg		12/20/2019 20:53
Endosulfan I	< 3.62	ug/Kg		12/20/2019 20:53
Endosulfan II	< 3.62	ug/Kg		12/20/2019 20:53
Endosulfan Sulfate	< 3.62	ug/Kg		12/20/2019 20:53
Endrin	< 3.62	ug/Kg		12/20/2019 20:53
Endrin Aldehyde	< 3.62	ug/Kg		12/20/2019 20:53
Endrin Ketone	< 3.62	ug/Kg		12/20/2019 20:53
gamma-BHC (Lindane)	< 3.62	ug/Kg		12/20/2019 20:53
Heptachlor	< 3.62	ug/Kg		12/20/2019 20:53
Heptachlor Epoxide	< 3.62	ug/Kg		12/20/2019 20:53
Methoxychlor	< 3.62	ug/Kg		12/20/2019 20:53
Toxaphene	< 36.2	ug/Kg		12/20/2019 20:53
trans-Chlordane	< 3.62	ug/Kg		12/20/2019 20:53

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-8 10-12'
Lab Sample ID: 196242-06 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**33.7**	30.7 - 111		12/20/2019 20:53
Tetrachloro-m-xylene (1)	**47.4**	34.7 - 87.3		12/20/2019 20:53

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/20/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-8 10-12'
Lab Sample ID: 196242-06 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 348	ug/Kg		12/30/2019 23:05
1,2,4,5-Tetrachlorobenzene	< 348	ug/Kg		12/30/2019 23:05
1,2,4-Trichlorobenzene	< 348	ug/Kg		12/30/2019 23:05
1,2-Dichlorobenzene	< 348	ug/Kg		12/30/2019 23:05
1,3-Dichlorobenzene	< 348	ug/Kg		12/30/2019 23:05
1,4-Dichlorobenzene	< 348	ug/Kg		12/30/2019 23:05
2,2-Oxybis (1-chloropropane)	< 348	ug/Kg		12/30/2019 23:05
2,3,4,6-Tetrachlorophenol	< 348	ug/Kg		12/30/2019 23:05
2,4,5-Trichlorophenol	< 348	ug/Kg		12/30/2019 23:05
2,4,6-Trichlorophenol	< 348	ug/Kg		12/30/2019 23:05
2,4-Dichlorophenol	< 348	ug/Kg		12/30/2019 23:05
2,4-Dimethylphenol	< 348	ug/Kg		12/30/2019 23:05
2,4-Dinitrophenol	< 1390	ug/Kg		12/30/2019 23:05
2,4-Dinitrotoluene	< 348	ug/Kg		12/30/2019 23:05
2,6-Dinitrotoluene	< 348	ug/Kg		12/30/2019 23:05
2-Chloronaphthalene	< 348	ug/Kg		12/30/2019 23:05
2-Chlorophenol	< 348	ug/Kg		12/30/2019 23:05
2-Methylnapthalene	< 348	ug/Kg		12/30/2019 23:05
2-Methylphenol	< 348	ug/Kg		12/30/2019 23:05
2-Nitroaniline	< 348	ug/Kg		12/30/2019 23:05
2-Nitrophenol	< 348	ug/Kg		12/30/2019 23:05
3&4-Methylphenol	< 348	ug/Kg		12/30/2019 23:05
3,3'-Dichlorobenzidine	< 348	ug/Kg		12/30/2019 23:05

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-8 10-12'
Lab Sample ID: 196242-06 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

3-Nitroaniline	< 348	ug/Kg	12/30/2019	23:05
4,6-Dinitro-2-methylphenol	< 697	ug/Kg	12/30/2019	23:05
4-Bromophenyl phenyl ether	< 348	ug/Kg	12/30/2019	23:05
4-Chloro-3-methylphenol	< 348	ug/Kg	12/30/2019	23:05
4-Chloroaniline	< 348	ug/Kg	12/30/2019	23:05
4-Chlorophenyl phenyl ether	< 348	ug/Kg	12/30/2019	23:05
4-Nitroaniline	< 348	ug/Kg	12/30/2019	23:05
4-Nitrophenol	< 348	ug/Kg	12/30/2019	23:05
Acenaphthene	< 348	ug/Kg	12/30/2019	23:05
Acenaphthylene	< 348	ug/Kg	12/30/2019	23:05
Acetophenone	< 348	ug/Kg	12/30/2019	23:05
Anthracene	< 348	ug/Kg	12/30/2019	23:05
Atrazine	< 348	ug/Kg	12/30/2019	23:05
Benzaldehyde	< 348	ug/Kg	12/30/2019	23:05
Benzo (a) anthracene	< 348	ug/Kg	12/30/2019	23:05
Benzo (a) pyrene	< 348	ug/Kg	12/30/2019	23:05
Benzo (b) fluoranthene	< 348	ug/Kg	12/30/2019	23:05
Benzo (g,h,i) perylene	< 348	ug/Kg	12/30/2019	23:05
Benzo (k) fluoranthene	< 348	ug/Kg	12/30/2019	23:05
Bis (2-chloroethoxy) methane	< 348	ug/Kg	12/30/2019	23:05
Bis (2-chloroethyl) ether	< 348	ug/Kg	12/30/2019	23:05
Bis (2-ethylhexyl) phthalate	< 348	ug/Kg	12/30/2019	23:05
Butylbenzylphthalate	< 348	ug/Kg	12/30/2019	23:05
Caprolactam	< 348	ug/Kg	12/30/2019	23:05
Carbazole	< 348	ug/Kg	12/30/2019	23:05

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-8 10-12'
Lab Sample ID: 196242-06 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Chrysene	< 348	ug/Kg	12/30/2019	23:05
Dibenz (a,h) anthracene	< 348	ug/Kg	12/30/2019	23:05
Dibenzofuran	< 348	ug/Kg	12/30/2019	23:05
Diethyl phthalate	< 348	ug/Kg	12/30/2019	23:05
Dimethyl phthalate	< 348	ug/Kg	12/30/2019	23:05
Di-n-butyl phthalate	< 348	ug/Kg	12/30/2019	23:05
Di-n-octylphthalate	< 348	ug/Kg	12/30/2019	23:05
Fluoranthene	< 348	ug/Kg	12/30/2019	23:05
Fluorene	< 348	ug/Kg	12/30/2019	23:05
Hexachlorobenzene	< 348	ug/Kg	12/30/2019	23:05
Hexachlorobutadiene	< 348	ug/Kg	12/30/2019	23:05
Hexachlorocyclopentadiene	< 1390	ug/Kg	12/30/2019	23:05
Hexachloroethane	< 348	ug/Kg	12/30/2019	23:05
Indeno (1,2,3-cd) pyrene	< 348	ug/Kg	12/30/2019	23:05
Isophorone	< 348	ug/Kg	12/30/2019	23:05
Naphthalene	< 348	ug/Kg	12/30/2019	23:05
Nitrobenzene	< 348	ug/Kg	12/30/2019	23:05
N-Nitroso-di-n-propylamine	< 348	ug/Kg	12/30/2019	23:05
N-Nitrosodiphenylamine	< 348	ug/Kg	12/30/2019	23:05
Pentachlorophenol	< 697	ug/Kg	12/30/2019	23:05
Phenanthrene	< 348	ug/Kg	12/30/2019	23:05
Phenol	< 348	ug/Kg	12/30/2019	23:05
Pyrene	< 348	ug/Kg	12/30/2019	23:05

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-8 10-12'
Lab Sample ID: 196242-06 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**56.5**	35.1 - 89.5		12/30/2019 23:05
2-Fluorobiphenyl	**62.9**	37.7 - 81.4		12/30/2019 23:05
2-Fluorophenol	**61.2**	40.2 - 77		12/30/2019 23:05
Nitrobenzene-d5	**52.1**	36.2 - 78.4		12/30/2019 23:05
Phenol-d5	**60.0**	41.2 - 77.1		12/30/2019 23:05
Terphenyl-d14	**63.1**	39.8 - 97.5		12/30/2019 23:05

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2019
Data File: B43423A.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-8 10-12'
Lab Sample ID: 196242-06 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 5.31	ug/Kg		12/26/2019 22:50
1,1,2,2-Tetrachloroethane	< 5.31	ug/Kg		12/26/2019 22:50
1,1,2-Trichloroethane	< 5.31	ug/Kg		12/26/2019 22:50
1,1-Dichloroethane	< 5.31	ug/Kg		12/26/2019 22:50
1,1-Dichloroethene	< 5.31	ug/Kg		12/26/2019 22:50
1,2,3-Trichlorobenzene	< 13.3	ug/Kg		12/26/2019 22:50
1,2,4-Trichlorobenzene	< 13.3	ug/Kg		12/26/2019 22:50
1,2,4-Trimethylbenzene	< 5.31	ug/Kg		12/26/2019 22:50
1,2-Dibromo-3-Chloropropane	< 26.6	ug/Kg		12/26/2019 22:50
1,2-Dibromoethane	< 5.31	ug/Kg		12/26/2019 22:50
1,2-Dichlorobenzene	< 5.31	ug/Kg		12/26/2019 22:50
1,2-Dichloroethane	< 5.31	ug/Kg		12/26/2019 22:50
1,2-Dichloropropane	< 5.31	ug/Kg		12/26/2019 22:50
1,3,5-Trimethylbenzene	< 5.31	ug/Kg		12/26/2019 22:50
1,3-Dichlorobenzene	< 5.31	ug/Kg		12/26/2019 22:50
1,4-Dichlorobenzene	< 5.31	ug/Kg		12/26/2019 22:50
1,4-Dioxane	< 53.1	ug/Kg		12/26/2019 22:50
2-Butanone	< 26.6	ug/Kg		12/26/2019 22:50
2-Hexanone	< 13.3	ug/Kg		12/26/2019 22:50
4-Methyl-2-pentanone	< 13.3	ug/Kg		12/26/2019 22:50
Acetone	**33.5**	ug/Kg		12/26/2019 22:50
Benzene	< 5.31	ug/Kg		12/26/2019 22:50
Bromochloromethane	< 13.3	ug/Kg		12/26/2019 22:50

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ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

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Sample Identifier: BH-8 10-12'
Lab Sample ID: 196242-06 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

Bromodichloromethane	< 5.31	ug/Kg		12/26/2019	22:50
Bromoform	< 13.3	ug/Kg		12/26/2019	22:50
Bromomethane	< 5.31	ug/Kg		12/26/2019	22:50
Carbon disulfide	**2.97**	ug/Kg	J	12/26/2019	22:50
Carbon Tetrachloride	< 5.31	ug/Kg		12/26/2019	22:50
Chlorobenzene	< 5.31	ug/Kg		12/26/2019	22:50
Chloroethane	< 5.31	ug/Kg		12/26/2019	22:50
Chloroform	< 5.31	ug/Kg		12/26/2019	22:50
Chloromethane	< 5.31	ug/Kg		12/26/2019	22:50
cis-1,2-Dichloroethene	< 5.31	ug/Kg		12/26/2019	22:50
cis-1,3-Dichloropropene	< 5.31	ug/Kg		12/26/2019	22:50
Cyclohexane	< 26.6	ug/Kg		12/26/2019	22:50
Dibromochloromethane	< 5.31	ug/Kg		12/26/2019	22:50
Dichlorodifluoromethane	< 5.31	ug/Kg		12/26/2019	22:50
Ethylbenzene	< 5.31	ug/Kg		12/26/2019	22:50
Freon 113	< 5.31	ug/Kg		12/26/2019	22:50
Isopropylbenzene	< 5.31	ug/Kg		12/26/2019	22:50
m,p-Xylene	< 5.31	ug/Kg		12/26/2019	22:50
Methyl acetate	< 5.31	ug/Kg		12/26/2019	22:50
Methyl tert-butyl Ether	< 5.31	ug/Kg		12/26/2019	22:50
Methylcyclohexane	< 5.31	ug/Kg		12/26/2019	22:50
Methylene chloride	< 13.3	ug/Kg		12/26/2019	22:50
Naphthalene	< 13.3	ug/Kg		12/26/2019	22:50
n-Butylbenzene	< 5.31	ug/Kg		12/26/2019	22:50
n-Propylbenzene	< 5.31	ug/Kg		12/26/2019	22:50

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-8 10-12'
Lab Sample ID: 196242-06 **Date Sampled:** 12/17/2019
Matrix: Soil **Date Received:** 12/19/2019

o-Xylene	< 5.31	ug/Kg	12/26/2019	22:50
p-Isopropyltoluene	< 5.31	ug/Kg	12/26/2019	22:50
sec-Butylbenzene	< 5.31	ug/Kg	12/26/2019	22:50
Styrene	< 13.3	ug/Kg	12/26/2019	22:50
tert-Butylbenzene	< 5.31	ug/Kg	12/26/2019	22:50
Tetrachloroethene	< 5.31	ug/Kg	12/26/2019	22:50
Toluene	< 5.31	ug/Kg	12/26/2019	22:50
trans-1,2-Dichloroethene	**9.04**	ug/Kg	12/26/2019	22:50
trans-1,3-Dichloropropene	< 5.31	ug/Kg	12/26/2019	22:50
Trichloroethene	< 5.31	ug/Kg	12/26/2019	22:50
Trichlorofluoromethane	< 5.31	ug/Kg	12/26/2019	22:50
Vinyl chloride	< 5.31	ug/Kg	12/26/2019	22:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**128**	67.9 - 146		12/26/2019	22:50
4-Bromofluorobenzene	**71.0**	64.6 - 127		12/26/2019	22:50
Pentafluorobenzene	**91.2**	85.5 - 113		12/26/2019	22:50
Toluene-D8	**87.6**	83.9 - 114		12/26/2019	22:50

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x67495.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-8 10-12'		
Lab Sample ID:	196242-06	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.631	mg/Kg		12/27/2019

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196242

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-8 10-12'		
Lab Sample ID:	196242-06	**Date Sampled:**	12/17/2019
Matrix:	Soil	**Date Received:**	12/19/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 34.8	ug/Kg		12/31/2019 12:32

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/20/2019
Data File: B43449.D

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Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

ANALYTICAL REPORT

Lab Number:	L1960662
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Jane Daloia
Phone:	(585) 647-2530
Project Name:	57 TONAWANDA
Project Number:	57 TONAWANDA
Report Date:	01/23/20

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1960662
Report Date: 01/23/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1960662-01	BH-01 6-8'	SOIL	Not Specified	12/17/19 10:00	12/18/19
L1960662-02	BH-04 1-3'	SOIL	Not Specified	12/17/19 11:00	12/18/19
L1960662-03	BH-08 1-3'	SOIL	Not Specified	12/17/19 14:30	12/18/19
L1960662-04	BH-08 DUPLICATE	SOIL	Not Specified	12/17/19 14:30	12/18/19
L1960662-05	BH-01 1-4'	SOIL	Not Specified	12/17/19 13:00	12/18/19
L1960662-06	BH-8 10-12'	SOIL	Not Specified	12/17/19 00:00	12/18/19

Project Name:	57 TONAWANDA	**Lab Number:**	L1960662
Project Number:	57 TONAWANDA	**Report Date:**	01/23/20

Case Narrative

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

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

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

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

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

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

Project Name:	57 TONAWANDA	**Lab Number:**	L1960662
Project Number:	57 TONAWANDA	**Report Date:**	01/23/20

Case Narrative (continued)

Report Submission

January 23, 2020: This final report includes the results of all requested analyses.

December 26, 2019: This is a preliminary report.

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

Hexavalent Chromium

The WG1323083-4 MS recovery (50%), performed on L1960662-06, is outside the acceptance criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 105%.

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

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 01/23/20

ORGANICS

SEMIVOLATILES

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-01
Client ID: BH-01 6-8'
Sample Location: Not Specified

Date Collected: 12/17/19 10:00
Date Received: 12/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/23/20 00:52
Analyst: JW
Percent Solids: 81%

Extraction Method: ALPHA 23528
Extraction Date: 12/27/19 11:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.12	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.12	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.12	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.12	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.12	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.12	0.068	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.12	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.12	0.202	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.12	0.153	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.12	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.12	0.146	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.12	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.12	0.323	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.12	0.226	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.12	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.12	0.172	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.12	0.110	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.12	0.095	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.12	0.079	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.12	0.230	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.12	0.061	1
PFOA/PFOS, Total	ND		ug/kg	1.12	0.047	1

Project Name: 57 TONAWANDA
Lab Number: L1960662
Project Number: 57 TONAWANDA
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-01
Client ID: BH-01 6-8'
Sample Location: Not Specified
Date Collected: 12/17/19 10:00
Date Received: 12/18/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	75		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	78		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	77		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	73		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	83		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	81		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	86		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	86		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	107		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	47		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	2		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	51		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	62		26-160

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-03
Client ID: BH-08 1-3'
Sample Location: Not Specified

Date Collected: 12/17/19 14:30
Date Received: 12/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/23/20 01:09
Analyst: JW
Percent Solids: 90%

Extraction Method: ALPHA 23528
Extraction Date: 12/27/19 11:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.02	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.02	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.02	0.040	1
Perfluorohexanoic Acid (PFHxA)	0.054	J	ug/kg	1.02	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.02	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.02	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.02	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.02	0.183	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.02	0.139	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.02	0.076	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.02	0.132	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.02	0.068	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.02	0.292	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.02	0.205	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.02	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.02	0.156	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.02	0.100	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.02	0.086	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.02	0.071	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.02	0.208	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.02	0.055	1
PFOA/PFOS, Total	ND		ug/kg	1.02	0.043	1

Project Name: 57 TONAWANDA
Lab Number: L1960662
Project Number: 57 TONAWANDA
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-03
Client ID: BH-08 1-3'
Sample Location: Not Specified
Date Collected: 12/17/19 14:30
Date Received: 12/18/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	99		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	101		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	117		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	65		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	105		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	1		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	67		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		26-160

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-05
Client ID: BH-01 1-4'
Sample Location: Not Specified

Date Collected: 12/17/19 13:00
Date Received: 12/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/23/20 01:26
Analyst: JW
Percent Solids: 90%

Extraction Method: ALPHA 23528
Extraction Date: 12/27/19 11:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.01	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.01	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.01	0.039	1
Perfluorohexanoic Acid (PFHxA)	0.061	J	ug/kg	1.01	0.053	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.01	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.01	0.061	1
Perfluorooctanoic Acid (PFOA)	0.085	J	ug/kg	1.01	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.01	0.182	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.01	0.138	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.01	0.076	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.01	0.131	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.01	0.068	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.01	0.290	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.01	0.204	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.01	0.047	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.01	0.155	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.01	0.099	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.01	0.085	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.01	0.071	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.01	0.207	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.01	0.055	1
PFOA/PFOS, Total	0.085	J	ug/kg	1.01	0.042	1

Project Name: 57 TONAWANDA
Lab Number: L1960662
Project Number: 57 TONAWANDA
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-05
Client ID: BH-01 1-4'
Sample Location: Not Specified
Date Collected: 12/17/19 13:00
Date Received: 12/18/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	98		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	114		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	48		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	14		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	57		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	83		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	56		26-160

PESTICIDES

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-01
Client ID: BH-01 6-8'
Sample Location: Not Specified

Date Collected: 12/17/19 10:00
Date Received: 12/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/24/19 10:04
Analyst: JMC
Percent Solids: 81%
Methylation Date: 12/22/19 18:01

Extraction Method: EPA 8151A
Extraction Date: 12/21/19 08:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	204	5.42	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	85		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-02
Client ID: BH-04 1-3'
Sample Location: Not Specified

Date Collected: 12/17/19 11:00
Date Received: 12/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/24/19 10:23
Analyst: JMC
Percent Solids: 85%
Methylation Date: 12/22/19 18:01

Extraction Method: EPA 8151A
Extraction Date: 12/21/19 08:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	194	5.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	98		30-150	A
DCAA	93		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-03
Client ID: BH-08 1-3'
Sample Location: Not Specified

Date Collected: 12/17/19 14:30
Date Received: 12/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/24/19 10:41
Analyst: JMC
Percent Solids: 90%
Methylation Date: 12/22/19 18:01

Extraction Method: EPA 8151A
Extraction Date: 12/21/19 08:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	185	4.92	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	70		30-150	A
DCAA	73		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-04
Client ID: BH-08 DUPLICATE
Sample Location: Not Specified

Date Collected: 12/17/19 14:30
Date Received: 12/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/24/19 10:59
Analyst: JMC
Percent Solids: 84%
Methylation Date: 12/22/19 18:01

Extraction Method: EPA 8151A
Extraction Date: 12/21/19 08:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	197	5.24	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	89		30-150	A
DCAA	86		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-05
Client ID: BH-01 1-4'
Sample Location: Not Specified

Date Collected: 12/17/19 13:00
Date Received: 12/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/24/19 11:18
Analyst: JMC
Percent Solids: 90%
Methylation Date: 12/22/19 18:01

Extraction Method: EPA 8151A
Extraction Date: 12/21/19 08:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	185	4.91	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	104		30-150	A
DCAA	91		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-06
Client ID: BH-8 10-12'
Sample Location: Not Specified

Date Collected: 12/17/19 00:00
Date Received: 12/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/24/19 11:36
Analyst: JMC
Percent Solids: 81%
Methylation Date: 12/22/19 18:01

Extraction Method: EPA 8151A
Extraction Date: 12/21/19 08:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	204	5.42	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	77		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-01
Client ID: BH-01 6-8'
Sample Location: Not Specified

Sample Depth:
Matrix: Soil

Date Collected: 12/17/19 10:00
Date Received: 12/18/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.4		%	0.100	NA	1	-	12/19/19 14:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.983	0.196	1	12/20/19 04:22	12/23/19 04:30	1,7196A	KF

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-02
Client ID: BH-04 1-3'
Sample Location: Not Specified

Sample Depth:
Matrix: Soil

Date Collected: 12/17/19 11:00
Date Received: 12/18/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.7		%	0.100	NA	1	-	12/20/19 08:24	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.944	0.189	1	12/20/19 04:22	12/23/19 04:30	1,7196A	KF

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-03
Client ID: BH-08 1-3'
Sample Location: Not Specified
Sample Depth:
Matrix: Soil

Date Collected: 12/17/19 14:30
Date Received: 12/18/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	12/19/19 14:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.893	0.178	1	12/20/19 04:22	12/23/19 04:30	1,7196A	KF

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-04
Client ID: BH-08 DUPLICATE
Sample Location: Not Specified
Sample Depth:
Matrix: Soil

Date Collected: 12/17/19 14:30
Date Received: 12/18/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	12/20/19 08:24	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.955	0.191	1	12/20/19 04:22	12/23/19 04:30	1,7196A	KF

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-05
Client ID: BH-01 1-4'
Sample Location: Not Specified

Sample Depth:
Matrix: Soil

Date Collected: 12/17/19 13:00
Date Received: 12/18/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	12/19/19 14:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.890	0.178	1	12/20/19 04:22	12/23/19 04:30	1,7196A	KF

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1960662
Report Date: 01/23/20

SAMPLE RESULTS

Lab ID: L1960662-06
Client ID: BH-8 10-12'
Sample Location: Not Specified
Sample Depth:
Matrix: Soil

Date Collected: 12/17/19 00:00
Date Received: 12/18/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.3		%	0.100	NA	1	-	12/21/19 10:58	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.984	0.197	1	12/20/19 04:22	12/23/19 04:30	1,7196A	KF

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1960662
Report Date: 01/23/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1960662-01A	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L1960662-01B	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		HERB-APA(14),HEXCR-7196(30)
L1960662-01C	Plastic 8oz unpreserved	A	NA		3.4	Y	Absent		A2-NY-537-ISOTOPE(28)
L1960662-02A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		HERB-APA(14),TS(7),HEXCR-7196(30)
L1960662-03A	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L1960662-03B	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		HERB-APA(14),HEXCR-7196(30)
L1960662-03C	Plastic 8oz unpreserved	A	NA		3.4	Y	Absent		A2-NY-537-ISOTOPE(28)
L1960662-04A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		HERB-APA(14),TS(7),HEXCR-7196(30)
L1960662-05A	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L1960662-05B	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		HERB-APA(14),HEXCR-7196(30)
L1960662-05C	Plastic 8oz unpreserved	A	NA		3.4	Y	Absent		A2-NY-537-ISOTOPE(28)
L1960662-06A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		HERB-APA(14),TS(7),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1

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GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA	**Lab Number:**	L1960662
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1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Project Name:	57 TONAWANDA	**Lab Number:**	L1960662
Project Number:	57 TONAWANDA	**Report Date:**	01/23/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA	**Lab Number:**	L1960662
Project Number:	57 TONAWANDA	**Report Date:**	01/23/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

L1960662
11148

CHAIN OF CUSTODY

PARADIGM

REPORT TO:		INVOICE TO:		
CLIENT:	Paradigm Environmental	CLIENT:	Same	LAB PROJECT ID
ADDRESS:	179 Lake Avenue	ADDRESS:		
CITY:	Rochester STATE: NY ZIP: 14608	CITY:	STATE: ZIP:	Results by 3 PM
PHONE:	585-647-2530	PHONE:		Email:
ATTN:	reporting@paradigmenv.com	ATTN:	accpay@paradigmenv.com	

PROJECT REFERENCE: 57 Tonawanda

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Hex Chrome	Silver	PFAS	[illegible]	REMARKS	PARADIGM LAB SAMPLE NUMBER
12-17	1000	X		BH-01 6-8'	SO	3	X	X	X	X		
12-17	1100	X		BH-04 1-3'	SO	1	X	X				
12-17	1430	X		BH-08 1-3'	SO	3	X	X	X	X		
12-17	1430	X		BH-08 Duplicate	SO	1	X	X				
12-17	100	X		BH-01 1-4'	SO	3	X	X	X	X		
12-17		X		BH-8 10-12'	SO	1	X	X				

Turnaround Time		Report Supplements			
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other	☐	Other	☐	Other EDD	☐

Client

Sampled By	James Stemiz	Date/Time 12/18/19 2?5
Relinquished By	Joseph Foley (AAL)	Date/Time 12/18/19 14:15
Received By	Joseph Foley (AAL)	Date/Time 12/18/19 14:15
Received @ Lab By	[signature]	Date/Time 12/19/19 01:50

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM

CHAIN OF CUSTODY

1 of 2

REPORT TO:		INVOICE TO:		
CLIENT: BES		CLIENT:		LAB PROJECT ID: 196242
ADDRESS: 1270 Niagara St		ADDRESS:		
CITY: Buffalo STATE: NY ZIP: 14221		CITY: STATE: ZIP:		Quotation #:
PHONE: (716) 308-8220		PHONE:		Email:
ATTN: Pete Gorton		ATTN:		

PROJECT REFERENCE: 57 Tonawanda

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260 VOC	8270 SVOC	8270 Metals	8270 PCB	Pesticides	TCLP Silver	TCLP Cr6	PFAS	%Solids	1,4 Dioxane per sample labels & JH 12/19/19	REMARKS	PARADIGM LAB SAMPLE NUMBER
12/17/19	1000		X	BH-01 6-8'	SO	5	X	X	X	X	X	X	X	X	X	X		01
12/17/19	1100		X	BH-04 1-3'	SO	3	X	X	X	X	X	X	X	X		X		02
12/17/19	1430		X	BH-08 1-3'	SO	~~3~~ 5	X	X	X	X	X	X	X	X	X	X		03
12/17/19	1430		X	BH-08 Duplicate	SO	~~5~~ 3	X	X	X	X	X	X	X	X		X		04
12/17/19	1800		X	BH-01 1-4'	SO	5	X	X	X	X	X	X	X	X	X	X		05
12/17/19			X	BH-8 10-12'	SO	3	X	X	X	X	X	X	X	X				06
						per w Bulk / Sub COC												
						GP 12/19/19												

Received 12/18/19 1627 mw
Sub sent directly to sub-lab MW/Mail
No custody seals

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☑	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☑		
Rush 1 day	☐				
Date Needed _____ please indicate date needed: _____		Other please indicate package needed: _____	☐	Other EDD please indicate EDD needed: _____	☐

Sampled By: Peter Gorton	Date/Time: 12/17/19 1430	Total Cost:
Relinquished By:	Date/Time: 12/18/19 1300	
Received By:	Date/Time: 12/18/19 1300	P.I.F.
Received @ Lab By:	Date/Time: 12/19/19 09:16	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: BE3 **Completed by:** Glenn Pezzulo

Lab Project ID: 196242 **Date:** 12/19/19

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X	X 5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X metals
Comments	6°C iced		
Compliant Sample Quantity/Type	X		
Comments	Samples for Silver, Hex Cr, PFAS sent directly to sub lab.		

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-10, 1-2 Ft
Lab Sample ID: 196293-01 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**6.98**	mg/Kg		12/27/2019 14:19
Barium	**114**	mg/Kg		12/27/2019 14:19
Beryllium	**1.05**	mg/Kg		12/27/2019 14:19
Cadmium	**1.71**	mg/Kg		12/27/2019 14:19
Chromium	**37.0**	mg/Kg		12/27/2019 14:19
Copper	**190**	mg/Kg		12/27/2019 14:19
Lead	**185**	mg/Kg		12/27/2019 14:19
Manganese	**6360**	mg/Kg		12/30/2020 17:14
Nickel	**14.2**	mg/Kg		12/27/2019 14:19
Selenium	**1.05**	mg/Kg		12/30/2020 17:18
Silver	**1.41**	mg/Kg		12/27/2019 14:19
Zinc	**956**	mg/Kg		12/30/2020 17:14

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/26/2019
Data File: 191227C

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-10, 1-2 Ft		
Lab Sample ID:	196293-01	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.856**	mg/Kg		12/26/2019 12:30

Method Reference(s): EPA 7471B
Preparation Date: 12/24/2019
Data File: Hg191226B

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-10, 1-2 Ft		
Lab Sample ID:	196293-01	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0277	mg/Kg		12/23/2019 19:50
PCB-1221	< 0.0277	mg/Kg		12/23/2019 19:50
PCB-1232	< 0.0277	mg/Kg		12/23/2019 19:50
PCB-1242	< 0.0277	mg/Kg		12/23/2019 19:50
PCB-1248	< 0.0277	mg/Kg		12/23/2019 19:50
PCB-1254	< 0.0277	mg/Kg		12/23/2019 19:50
PCB-1260	< 0.0277	mg/Kg		12/23/2019 19:50
PCB-1262	< 0.0277	mg/Kg		12/23/2019 19:50
PCB-1268	< 0.0277	mg/Kg		12/23/2019 19:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**36.6**	18.3 - 89.6		12/23/2019 19:50

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/23/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-10, 1-2 Ft
Lab Sample ID: 196293-01 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 2.77	ug/Kg		12/26/2019 14:36
4,4-DDE	< 2.77	ug/Kg		12/26/2019 14:36
4,4-DDT	< 2.77	ug/Kg		12/26/2019 14:36
Aldrin	< 2.77	ug/Kg		12/26/2019 14:36
alpha-BHC	< 2.77	ug/Kg		12/26/2019 14:36
beta-BHC	< 2.77	ug/Kg		12/26/2019 14:36
cis-Chlordane	< 2.77	ug/Kg		12/26/2019 14:36
delta-BHC	< 2.77	ug/Kg		12/26/2019 14:36
Dieldrin	< 2.77	ug/Kg		12/26/2019 14:36
Endosulfan I	< 2.77	ug/Kg		12/26/2019 14:36
Endosulfan II	< 2.77	ug/Kg		12/26/2019 14:36
Endosulfan Sulfate	**1.46**	ug/Kg	JP	12/26/2019 14:36
Endrin	< 2.77	ug/Kg		12/26/2019 14:36
Endrin Aldehyde	< 2.77	ug/Kg		12/26/2019 14:36
Endrin Ketone	< 2.77	ug/Kg		12/26/2019 14:36
gamma-BHC (Lindane)	< 2.77	ug/Kg		12/26/2019 14:36
Heptachlor	< 2.77	ug/Kg		12/26/2019 14:36
Heptachlor Epoxide	< 2.77	ug/Kg		12/26/2019 14:36
Methoxychlor	< 2.77	ug/Kg		12/26/2019 14:36
Toxaphene	< 27.7	ug/Kg		12/26/2019 14:36
trans-Chlordane	< 2.77	ug/Kg		12/26/2019 14:36

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-10, 1-2 Ft
Lab Sample ID: 196293-01 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**52.6**	30.7 - 111		12/26/2019 14:36
Tetrachloro-m-xylene (1)	**36.6**	34.7 - 87.3		12/26/2019 14:36

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/23/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-10, 1-2 Ft
Lab Sample ID: 196293-01 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 306	ug/Kg		12/24/2019 23:06
1,2,4,5-Tetrachlorobenzene	< 306	ug/Kg		12/24/2019 23:06
1,2,4-Trichlorobenzene	< 306	ug/Kg		12/24/2019 23:06
1,2-Dichlorobenzene	< 306	ug/Kg		12/24/2019 23:06
1,3-Dichlorobenzene	< 306	ug/Kg		12/24/2019 23:06
1,4-Dichlorobenzene	< 306	ug/Kg		12/24/2019 23:06
2,2-Oxybis (1-chloropropane)	< 306	ug/Kg		12/24/2019 23:06
2,3,4,6-Tetrachlorophenol	< 306	ug/Kg		12/24/2019 23:06
2,4,5-Trichlorophenol	< 306	ug/Kg		12/24/2019 23:06
2,4,6-Trichlorophenol	< 306	ug/Kg		12/24/2019 23:06
2,4-Dichlorophenol	< 306	ug/Kg		12/24/2019 23:06
2,4-Dimethylphenol	< 306	ug/Kg		12/24/2019 23:06
2,4-Dinitrophenol	< 1220	ug/Kg	DM	12/24/2019 23:06
2,4-Dinitrotoluene	< 306	ug/Kg		12/24/2019 23:06
2,6-Dinitrotoluene	< 306	ug/Kg		12/24/2019 23:06
2-Chloronaphthalene	< 306	ug/Kg		12/24/2019 23:06
2-Chlorophenol	< 306	ug/Kg		12/24/2019 23:06
2-Methylnapthalene	**1040**	ug/Kg		12/24/2019 23:06
2-Methylphenol	< 306	ug/Kg		12/24/2019 23:06
2-Nitroaniline	< 306	ug/Kg		12/24/2019 23:06
2-Nitrophenol	< 306	ug/Kg		12/24/2019 23:06
3&4-Methylphenol	< 306	ug/Kg		12/24/2019 23:06
3,3'-Dichlorobenzidine	< 306	ug/Kg		12/24/2019 23:06

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-10, 1-2 Ft		
Lab Sample ID:	196293-01	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

3-Nitroaniline	< 306	ug/Kg		12/24/2019	23:06
4,6-Dinitro-2-methylphenol	< 612	ug/Kg	M	12/24/2019	23:06
4-Bromophenyl phenyl ether	< 306	ug/Kg		12/24/2019	23:06
4-Chloro-3-methylphenol	< 306	ug/Kg		12/24/2019	23:06
4-Chloroaniline	< 306	ug/Kg		12/24/2019	23:06
4-Chlorophenyl phenyl ether	< 306	ug/Kg		12/24/2019	23:06
4-Nitroaniline	< 306	ug/Kg		12/24/2019	23:06
4-Nitrophenol	< 306	ug/Kg		12/24/2019	23:06
Acenaphthene	< 306	ug/Kg	DM	12/24/2019	23:06
Acenaphthylene	< 306	ug/Kg		12/24/2019	23:06
Acetophenone	< 306	ug/Kg		12/24/2019	23:06
Anthracene	**322**	ug/Kg		12/24/2019	23:06
Atrazine	< 306	ug/Kg		12/24/2019	23:06
Benzaldehyde	< 306	ug/Kg		12/24/2019	23:06
Benzo (a) anthracene	**1680**	ug/Kg		12/24/2019	23:06
Benzo (a) pyrene	**1190**	ug/Kg		12/24/2019	23:06
Benzo (b) fluoranthene	**1420**	ug/Kg		12/24/2019	23:06
Benzo (g,h,i) perylene	**713**	ug/Kg		12/24/2019	23:06
Benzo (k) fluoranthene	**917**	ug/Kg		12/24/2019	23:06
Bis (2-chloroethoxy) methane	< 306	ug/Kg		12/24/2019	23:06
Bis (2-chloroethyl) ether	< 306	ug/Kg		12/24/2019	23:06
Bis (2-ethylhexyl) phthalate	< 306	ug/Kg		12/24/2019	23:06
Butylbenzylphthalate	< 306	ug/Kg		12/24/2019	23:06
Caprolactam	< 306	ug/Kg		12/24/2019	23:06
Carbazole	< 306	ug/Kg		12/24/2019	23:06

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-10, 1-2 Ft
Lab Sample ID: 196293-01 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chrysene	**1530**	ug/Kg		12/24/2019	23:06
Dibenz (a,h) anthracene	**238**	ug/Kg	J	12/24/2019	23:06
Dibenzofuran	**275**	ug/Kg	J	12/24/2019	23:06
Diethyl phthalate	< 306	ug/Kg		12/24/2019	23:06
Dimethyl phthalate	< 306	ug/Kg		12/24/2019	23:06
Di-n-butyl phthalate	< 306	ug/Kg		12/24/2019	23:06
Di-n-octylphthalate	< 306	ug/Kg		12/24/2019	23:06
Fluoranthene	**2730**	ug/Kg		12/24/2019	23:06
Fluorene	< 306	ug/Kg		12/24/2019	23:06
Hexachlorobenzene	< 306	ug/Kg		12/24/2019	23:06
Hexachlorobutadiene	< 306	ug/Kg		12/24/2019	23:06
Hexachlorocyclopentadiene	< 1220	ug/Kg		12/24/2019	23:06
Hexachloroethane	< 306	ug/Kg		12/24/2019	23:06
Indeno (1,2,3-cd) pyrene	**886**	ug/Kg		12/24/2019	23:06
Isophorone	< 306	ug/Kg		12/24/2019	23:06
Naphthalene	**788**	ug/Kg		12/24/2019	23:06
Nitrobenzene	< 306	ug/Kg		12/24/2019	23:06
N-Nitroso-di-n-propylamine	< 306	ug/Kg		12/24/2019	23:06
N-Nitrosodiphenylamine	< 306	ug/Kg		12/24/2019	23:06
Pentachlorophenol	< 612	ug/Kg		12/24/2019	23:06
Phenanthrene	**1680**	ug/Kg		12/24/2019	23:06
Phenol	< 306	ug/Kg		12/24/2019	23:06
Pyrene	**2150**	ug/Kg	DM	12/24/2019	23:06

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-10, 1-2 Ft
Lab Sample ID: 196293-01 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**61.4**	35.1 - 89.5		12/24/2019 23:06
2-Fluorobiphenyl	**60.2**	37.7 - 81.4		12/24/2019 23:06
2-Fluorophenol	**56.7**	40.2 - 77		12/24/2019 23:06
Nitrobenzene-d5	**56.8**	36.2 - 78.4		12/24/2019 23:06
Phenol-d5	**56.5**	41.2 - 77.1		12/24/2019 23:06
Terphenyl-d14	**59.6**	39.8 - 97.5		12/24/2019 23:06

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/23/2019
Data File: B43323.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-10, 1-2 Ft
Lab Sample ID: 196293-01 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 874	ug/Kg		12/30/2019 15:34
1,1,2,2-Tetrachloroethane	< 874	ug/Kg		12/30/2019 15:34
1,1,2-Trichloroethane	< 874	ug/Kg		12/30/2019 15:34
1,1-Dichloroethane	< 874	ug/Kg		12/30/2019 15:34
1,1-Dichloroethene	< 874	ug/Kg		12/30/2019 15:34
1,2,3-Trichlorobenzene	< 2190	ug/Kg		12/30/2019 15:34
1,2,4-Trichlorobenzene	< 2190	ug/Kg		12/30/2019 15:34
1,2,4-Trimethylbenzene	< 874	ug/Kg		12/30/2019 15:34
1,2-Dibromo-3-Chloropropane	< 4370	ug/Kg		12/30/2019 15:34
1,2-Dibromoethane	< 874	ug/Kg		12/30/2019 15:34
1,2-Dichlorobenzene	< 874	ug/Kg		12/30/2019 15:34
1,2-Dichloroethane	< 874	ug/Kg		12/30/2019 15:34
1,2-Dichloropropane	< 874	ug/Kg		12/30/2019 15:34
1,3,5-Trimethylbenzene	< 874	ug/Kg		12/30/2019 15:34
1,3-Dichlorobenzene	< 874	ug/Kg		12/30/2019 15:34
1,4-Dichlorobenzene	< 874	ug/Kg		12/30/2019 15:34
1,4-Dioxane	< 8740	ug/Kg		12/30/2019 15:34
2-Butanone	< 4370	ug/Kg		12/30/2019 15:34
2-Hexanone	< 2190	ug/Kg		12/30/2019 15:34
4-Methyl-2-pentanone	< 2190	ug/Kg		12/30/2019 15:34
Acetone	< 4370	ug/Kg		12/30/2019 15:34
Benzene	< 874	ug/Kg		12/30/2019 15:34
Bromochloromethane	< 2190	ug/Kg		12/30/2019 15:34

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-10, 1-2 Ft
Lab Sample ID: 196293-01 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Bromodichloromethane	< 874	ug/Kg		12/30/2019	15:34
Bromoform	< 2190	ug/Kg		12/30/2019	15:34
Bromomethane	< 874	ug/Kg		12/30/2019	15:34
Carbon disulfide	< 874	ug/Kg		12/30/2019	15:34
Carbon Tetrachloride	< 874	ug/Kg		12/30/2019	15:34
Chlorobenzene	< 874	ug/Kg		12/30/2019	15:34
Chloroethane	< 874	ug/Kg		12/30/2019	15:34
Chloroform	< 874	ug/Kg		12/30/2019	15:34
Chloromethane	< 874	ug/Kg		12/30/2019	15:34
cis-1,2-Dichloroethene	**4590**	ug/Kg		12/30/2019	15:34
cis-1,3-Dichloropropene	< 874	ug/Kg		12/30/2019	15:34
Cyclohexane	< 4370	ug/Kg		12/30/2019	15:34
Dibromochloromethane	< 874	ug/Kg		12/30/2019	15:34
Dichlorodifluoromethane	< 874	ug/Kg		12/30/2019	15:34
Ethylbenzene	< 874	ug/Kg		12/30/2019	15:34
Freon 113	< 874	ug/Kg		12/30/2019	15:34
Isopropylbenzene	< 874	ug/Kg		12/30/2019	15:34
m,p-Xylene	**745**	ug/Kg	J	12/30/2019	15:34
Methyl acetate	< 874	ug/Kg		12/30/2019	15:34
Methyl tert-butyl Ether	< 874	ug/Kg		12/30/2019	15:34
Methylcyclohexane	**1780**	ug/Kg		12/30/2019	15:34
Methylene chloride	< 2190	ug/Kg		12/30/2019	15:34
Naphthalene	< 2190	ug/Kg		12/30/2019	15:34
n-Butylbenzene	< 874	ug/Kg		12/30/2019	15:34
n-Propylbenzene	< 874	ug/Kg		12/30/2019	15:34

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-10, 1-2 Ft
Lab Sample ID: 196293-01 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

o-Xylene	< 874	ug/Kg		12/30/2019	15:34
p-Isopropyltoluene	< 874	ug/Kg		12/30/2019	15:34
sec-Butylbenzene	< 874	ug/Kg		12/30/2019	15:34
Styrene	< 2190	ug/Kg		12/30/2019	15:34
tert-Butylbenzene	< 874	ug/Kg		12/30/2019	15:34
Tetrachloroethene	< 874	ug/Kg		12/30/2019	15:34
Toluene	< 874	ug/Kg		12/30/2019	15:34
trans-1,2-Dichloroethene	**443**	ug/Kg	J	12/30/2019	15:34
trans-1,3-Dichloropropene	< 874	ug/Kg		12/30/2019	15:34
Trichloroethene	**8120**	ug/Kg		12/30/2019	15:34
Trichlorofluoromethane	< 874	ug/Kg		12/30/2019	15:34
Vinyl chloride	< 874	ug/Kg		12/30/2019	15:34

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**118**	67.9 - 146		12/30/2019	15:34
4-Bromofluorobenzene	**89.1**	64.6 - 127		12/30/2019	15:34
Pentafluorobenzene	**90.1**	85.5 - 113		12/30/2019	15:34
Toluene-D8	**100**	83.9 - 114		12/30/2019	15:34

Method Reference(s): EPA 8260C
EPA 5035A -- H
Data File: x67535.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-10, 1-2 Ft		
Lab Sample ID:	196293-01	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**19.2**	mg/Kg		12/30/2019

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-10, 1-2 Ft		
Lab Sample ID:	196293-01	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**90.8**	%		12/24/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-10, 1-2 Ft		
Lab Sample ID:	196293-01	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 30.6	ug/Kg		1/2/2020 12:54

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/23/2019
Data File: B43483.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-03, 1-4 Ft
Lab Sample ID: 196293-02 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**3.22**	mg/Kg		12/27/2019 14:23
Barium	**30.0**	mg/Kg		12/27/2019 14:23
Beryllium	**0.268**	mg/Kg	J	12/27/2019 14:23
Cadmium	**1.21**	mg/Kg		12/27/2019 14:23
Chromium	**12.2**	mg/Kg		12/27/2019 14:23
Copper	**92.7**	mg/Kg		12/27/2019 14:23
Lead	**1390**	mg/Kg		12/27/2019 14:23
Manganese	**483**	mg/Kg		12/27/2019 14:23
Nickel	**11.6**	mg/Kg		12/27/2019 14:23
Selenium	< 1.14	mg/Kg		12/27/2019 14:23
Silver	**10.0**	mg/Kg		12/27/2019 14:23
Zinc	**157**	mg/Kg		12/30/2020 17:22

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/26/2019
Data File: 191227C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-03, 1-4 Ft		
Lab Sample ID:	196293-02	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0656**	mg/Kg		12/26/2019 11:49

Method Reference(s): EPA 7471B
Preparation Date: 12/24/2019
Data File: Hg191226B

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-03, 1-4 Ft		
Lab Sample ID:	196293-02	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0329	mg/Kg		12/23/2019 20:15
PCB-1221	< 0.0329	mg/Kg		12/23/2019 20:15
PCB-1232	< 0.0329	mg/Kg		12/23/2019 20:15
PCB-1242	< 0.0329	mg/Kg		12/23/2019 20:15
PCB-1248	< 0.0329	mg/Kg		12/23/2019 20:15
PCB-1254	< 0.0329	mg/Kg		12/23/2019 20:15
PCB-1260	**0.0308**	mg/Kg	J	12/23/2019 20:15
PCB-1262	< 0.0329	mg/Kg		12/23/2019 20:15
PCB-1268	< 0.0329	mg/Kg		12/23/2019 20:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**44.8**	18.3 - 89.6		12/23/2019 20:15

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-03, 1-4 Ft
Lab Sample ID: 196293-02 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.29	ug/Kg		12/26/2019 14:55
4,4-DDE	< 3.29	ug/Kg		12/26/2019 14:55
4,4-DDT	**5.67**	ug/Kg	P	12/26/2019 14:55
Aldrin	< 3.29	ug/Kg		12/26/2019 14:55
alpha-BHC	< 3.29	ug/Kg		12/26/2019 14:55
beta-BHC	< 3.29	ug/Kg		12/26/2019 14:55
cis-Chlordane	< 3.29	ug/Kg		12/26/2019 14:55
delta-BHC	< 3.29	ug/Kg		12/26/2019 14:55
Dieldrin	< 3.29	ug/Kg		12/26/2019 14:55
Endosulfan I	< 3.29	ug/Kg		12/26/2019 14:55
Endosulfan II	< 3.29	ug/Kg		12/26/2019 14:55
Endosulfan Sulfate	**3.23**	ug/Kg	JP	12/26/2019 14:55
Endrin	**1.67**	ug/Kg	JP	12/26/2019 14:55
Endrin Aldehyde	< 3.29	ug/Kg		12/26/2019 14:55
Endrin Ketone	**4.15**	ug/Kg	P	12/26/2019 14:55
gamma-BHC (Lindane)	< 3.29	ug/Kg		12/26/2019 14:55
Heptachlor	< 3.29	ug/Kg		12/26/2019 14:55
Heptachlor Epoxide	**12.4**	ug/Kg		12/26/2019 14:55
Methoxychlor	**4.30**	ug/Kg	P	12/26/2019 14:55
Toxaphene	< 32.9	ug/Kg		12/26/2019 14:55
trans-Chlordane	< 3.29	ug/Kg		12/26/2019 14:55

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-03, 1-4 Ft
Lab Sample ID: 196293-02 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**58.3**	30.7 - 111		12/26/2019 14:55
Tetrachloro-m-xylene (1)	**86.9**	34.7 - 87.3		12/26/2019 14:55

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-03, 1-4 Ft
Lab Sample ID: 196293-02 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 311	ug/Kg		12/25/2019 00:32
1,2,4,5-Tetrachlorobenzene	< 311	ug/Kg		12/25/2019 00:32
1,2,4-Trichlorobenzene	< 311	ug/Kg		12/25/2019 00:32
1,2-Dichlorobenzene	< 311	ug/Kg		12/25/2019 00:32
1,3-Dichlorobenzene	< 311	ug/Kg		12/25/2019 00:32
1,4-Dichlorobenzene	< 311	ug/Kg		12/25/2019 00:32
2,2-Oxybis (1-chloropropane)	< 311	ug/Kg		12/25/2019 00:32
2,3,4,6-Tetrachlorophenol	< 311	ug/Kg		12/25/2019 00:32
2,4,5-Trichlorophenol	< 311	ug/Kg		12/25/2019 00:32
2,4,6-Trichlorophenol	< 311	ug/Kg		12/25/2019 00:32
2,4-Dichlorophenol	< 311	ug/Kg		12/25/2019 00:32
2,4-Dimethylphenol	< 311	ug/Kg		12/25/2019 00:32
2,4-Dinitrophenol	< 1250	ug/Kg		12/25/2019 00:32
2,4-Dinitrotoluene	< 311	ug/Kg		12/25/2019 00:32
2,6-Dinitrotoluene	< 311	ug/Kg		12/25/2019 00:32
2-Chloronaphthalene	< 311	ug/Kg		12/25/2019 00:32
2-Chlorophenol	< 311	ug/Kg		12/25/2019 00:32
2-Methylnapthalene	**312**	ug/Kg		12/25/2019 00:32
2-Methylphenol	< 311	ug/Kg		12/25/2019 00:32
2-Nitroaniline	< 311	ug/Kg		12/25/2019 00:32
2-Nitrophenol	< 311	ug/Kg		12/25/2019 00:32
3&4-Methylphenol	< 311	ug/Kg		12/25/2019 00:32
3,3'-Dichlorobenzidine	< 311	ug/Kg		12/25/2019 00:32

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ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-03, 1-4 Ft
Lab Sample ID: 196293-02 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

3-Nitroaniline	< 311	ug/Kg		12/25/2019	00:32
4,6-Dinitro-2-methylphenol	< 623	ug/Kg		12/25/2019	00:32
4-Bromophenyl phenyl ether	< 311	ug/Kg		12/25/2019	00:32
4-Chloro-3-methylphenol	< 311	ug/Kg		12/25/2019	00:32
4-Chloroaniline	< 311	ug/Kg		12/25/2019	00:32
4-Chlorophenyl phenyl ether	< 311	ug/Kg		12/25/2019	00:32
4-Nitroaniline	< 311	ug/Kg		12/25/2019	00:32
4-Nitrophenol	< 311	ug/Kg		12/25/2019	00:32
Acenaphthene	**183**	ug/Kg	J	12/25/2019	00:32
Acenaphthylene	< 311	ug/Kg		12/25/2019	00:32
Acetophenone	< 311	ug/Kg		12/25/2019	00:32
Anthracene	**756**	ug/Kg		12/25/2019	00:32
Atrazine	< 311	ug/Kg		12/25/2019	00:32
Benzaldehyde	< 311	ug/Kg		12/25/2019	00:32
Benzo (a) anthracene	**2580**	ug/Kg		12/25/2019	00:32
Benzo (a) pyrene	**2250**	ug/Kg		12/25/2019	00:32
Benzo (b) fluoranthene	**2440**	ug/Kg		12/25/2019	00:32
Benzo (g,h,i) perylene	**1320**	ug/Kg		12/25/2019	00:32
Benzo (k) fluoranthene	**1430**	ug/Kg		12/25/2019	00:32
Bis (2-chloroethoxy) methane	< 311	ug/Kg		12/25/2019	00:32
Bis (2-chloroethyl) ether	< 311	ug/Kg		12/25/2019	00:32
Bis (2-ethylhexyl) phthalate	< 311	ug/Kg		12/25/2019	00:32
Butylbenzylphthalate	< 311	ug/Kg		12/25/2019	00:32
Caprolactam	< 311	ug/Kg		12/25/2019	00:32
Carbazole	**308**	ug/Kg	J	12/25/2019	00:32

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-03, 1-4 Ft		
Lab Sample ID:	196293-02	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Chrysene	**2170**	ug/Kg		12/25/2019	00:32
Dibenz (a,h) anthracene	**414**	ug/Kg		12/25/2019	00:32
Dibenzofuran	< 311	ug/Kg		12/25/2019	00:32
Diethyl phthalate	< 311	ug/Kg		12/25/2019	00:32
Dimethyl phthalate	< 311	ug/Kg		12/25/2019	00:32
Di-n-butyl phthalate	< 311	ug/Kg		12/25/2019	00:32
Di-n-octylphthalate	< 311	ug/Kg		12/25/2019	00:32
Fluoranthene	**5010**	ug/Kg		12/25/2019	00:32
Fluorene	**199**	ug/Kg	J	12/25/2019	00:32
Hexachlorobenzene	< 311	ug/Kg		12/25/2019	00:32
Hexachlorobutadiene	< 311	ug/Kg		12/25/2019	00:32
Hexachlorocyclopentadiene	< 1250	ug/Kg		12/25/2019	00:32
Hexachloroethane	< 311	ug/Kg		12/25/2019	00:32
Indeno (1,2,3-cd) pyrene	**1550**	ug/Kg		12/25/2019	00:32
Isophorone	< 311	ug/Kg		12/25/2019	00:32
Naphthalene	**227**	ug/Kg	J	12/25/2019	00:32
Nitrobenzene	< 311	ug/Kg		12/25/2019	00:32
N-Nitroso-di-n-propylamine	< 311	ug/Kg		12/25/2019	00:32
N-Nitrosodiphenylamine	< 311	ug/Kg		12/25/2019	00:32
Pentachlorophenol	< 623	ug/Kg		12/25/2019	00:32
Phenanthrene	**2570**	ug/Kg		12/25/2019	00:32
Phenol	< 311	ug/Kg		12/25/2019	00:32
Pyrene	**3320**	ug/Kg		12/25/2019	00:32

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-03, 1-4 Ft
Lab Sample ID: 196293-02 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**54.7**	35.1 - 89.5		12/25/2019 00:32
2-Fluorobiphenyl	**57.0**	37.7 - 81.4		12/25/2019 00:32
2-Fluorophenol	**56.4**	40.2 - 77		12/25/2019 00:32
Nitrobenzene-d5	**55.1**	36.2 - 78.4		12/25/2019 00:32
Phenol-d5	**54.9**	41.2 - 77.1		12/25/2019 00:32
Terphenyl-d14	**53.3**	39.8 - 97.5		12/25/2019 00:32

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/23/2019
Data File: B43326.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-03, 1-4 Ft
Lab Sample ID: 196293-02 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 42.3	ug/Kg		12/31/2019 14:40
1,1,2,2-Tetrachloroethane	< 42.3	ug/Kg		12/31/2019 14:40
1,1,2-Trichloroethane	< 42.3	ug/Kg		12/31/2019 14:40
1,1-Dichloroethane	< 42.3	ug/Kg		12/31/2019 14:40
1,1-Dichloroethene	< 42.3	ug/Kg		12/31/2019 14:40
1,2,3-Trichlorobenzene	< 106	ug/Kg		12/31/2019 14:40
1,2,4-Trichlorobenzene	< 106	ug/Kg		12/31/2019 14:40
1,2,4-Trimethylbenzene	< 42.3	ug/Kg		12/31/2019 14:40
1,2-Dibromo-3-Chloropropane	< 212	ug/Kg		12/31/2019 14:40
1,2-Dibromoethane	< 42.3	ug/Kg		12/31/2019 14:40
1,2-Dichlorobenzene	< 42.3	ug/Kg		12/31/2019 14:40
1,2-Dichloroethane	< 42.3	ug/Kg		12/31/2019 14:40
1,2-Dichloropropane	< 42.3	ug/Kg		12/31/2019 14:40
1,3,5-Trimethylbenzene	< 42.3	ug/Kg		12/31/2019 14:40
1,3-Dichlorobenzene	< 42.3	ug/Kg		12/31/2019 14:40
1,4-Dichlorobenzene	< 42.3	ug/Kg		12/31/2019 14:40
1,4-Dioxane	< 423	ug/Kg		12/31/2019 14:40
2-Butanone	< 212	ug/Kg		12/31/2019 14:40
2-Hexanone	< 106	ug/Kg		12/31/2019 14:40
4-Methyl-2-pentanone	< 106	ug/Kg		12/31/2019 14:40
Acetone	< 212	ug/Kg		12/31/2019 14:40
Benzene	< 42.3	ug/Kg		12/31/2019 14:40
Bromochloromethane	< 106	ug/Kg		12/31/2019 14:40

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-03, 1-4 Ft
Lab Sample ID: 196293-02 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Bromodichloromethane	< 42.3	ug/Kg		12/31/2019	14:40
Bromoform	< 106	ug/Kg		12/31/2019	14:40
Bromomethane	< 42.3	ug/Kg		12/31/2019	14:40
Carbon disulfide	< 42.3	ug/Kg		12/31/2019	14:40
Carbon Tetrachloride	< 42.3	ug/Kg		12/31/2019	14:40
Chlorobenzene	< 42.3	ug/Kg		12/31/2019	14:40
Chloroethane	< 42.3	ug/Kg		12/31/2019	14:40
Chloroform	< 42.3	ug/Kg		12/31/2019	14:40
Chloromethane	< 42.3	ug/Kg		12/31/2019	14:40
cis-1,2-Dichloroethene	**37.9**	ug/Kg	J	12/31/2019	14:40
cis-1,3-Dichloropropene	< 42.3	ug/Kg		12/31/2019	14:40
Cyclohexane	< 212	ug/Kg		12/31/2019	14:40
Dibromochloromethane	< 42.3	ug/Kg		12/31/2019	14:40
Dichlorodifluoromethane	< 42.3	ug/Kg		12/31/2019	14:40
Ethylbenzene	< 42.3	ug/Kg		12/31/2019	14:40
Freon 113	< 42.3	ug/Kg		12/31/2019	14:40
Isopropylbenzene	< 42.3	ug/Kg		12/31/2019	14:40
m,p-Xylene	< 42.3	ug/Kg		12/31/2019	14:40
Methyl acetate	< 42.3	ug/Kg		12/31/2019	14:40
Methyl tert-butyl Ether	< 42.3	ug/Kg		12/31/2019	14:40
Methylcyclohexane	< 42.3	ug/Kg		12/31/2019	14:40
Methylene chloride	< 106	ug/Kg		12/31/2019	14:40
Naphthalene	< 106	ug/Kg		12/31/2019	14:40
n-Butylbenzene	< 42.3	ug/Kg		12/31/2019	14:40
n-Propylbenzene	< 42.3	ug/Kg		12/31/2019	14:40

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-03, 1-4 Ft
Lab Sample ID: 196293-02 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

o-Xylene	< 42.3	ug/Kg	12/31/2019	14:40
p-Isopropyltoluene	< 42.3	ug/Kg	12/31/2019	14:40
sec-Butylbenzene	< 42.3	ug/Kg	12/31/2019	14:40
Styrene	< 106	ug/Kg	12/31/2019	14:40
tert-Butylbenzene	< 42.3	ug/Kg	12/31/2019	14:40
Tetrachloroethene	< 42.3	ug/Kg	12/31/2019	14:40
Toluene	< 42.3	ug/Kg	12/31/2019	14:40
trans-1,2-Dichloroethene	**43.0**	ug/Kg	12/31/2019	14:40
trans-1,3-Dichloropropene	< 42.3	ug/Kg	12/31/2019	14:40
Trichloroethene	**77.0**	ug/Kg	12/31/2019	14:40
Trichlorofluoromethane	< 42.3	ug/Kg	12/31/2019	14:40
Vinyl chloride	< 42.3	ug/Kg	12/31/2019	14:40

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**114**	67.9 - 146		12/31/2019	14:40
4-Bromofluorobenzene	**67.7**	64.6 - 127		12/31/2019	14:40
Pentafluorobenzene	**95.7**	85.5 - 113		12/31/2019	14:40
Toluene-D8	**90.4**	83.9 - 114		12/31/2019	14:40

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x67555.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-03, 1-4 Ft		
Lab Sample ID:	196293-02	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**4.30**	mg/Kg		12/30/2019

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-03, 1-4 Ft		
Lab Sample ID:	196293-02	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**85.9**	%		12/24/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-03, 1-4 Ft		
Lab Sample ID:	196293-02	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 31.1	ug/Kg		1/2/2020 13:04

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/23/2019
Data File: B43484.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-02, 1-2 Ft		
Lab Sample ID:	196293-03	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**6.18**	mg/Kg		12/27/2019 14:27
Barium	**57.7**	mg/Kg		12/27/2019 14:27
Beryllium	**0.769**	mg/Kg		12/27/2019 14:27
Cadmium	**0.762**	mg/Kg		12/27/2019 14:27
Chromium	**25.9**	mg/Kg		12/27/2019 14:27
Copper	**55.4**	mg/Kg		12/27/2019 14:27
Lead	**71.3**	mg/Kg		12/27/2019 14:27
Manganese	**1430**	mg/Kg		12/30/2020 17:26
Nickel	**13.5**	mg/Kg		12/27/2019 14:27
Selenium	**1.00**	mg/Kg	J	12/27/2019 14:27
Silver	**0.391**	mg/Kg	J	12/27/2019 14:27
Zinc	**270**	mg/Kg		12/30/2020 17:26

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/26/2019
Data File: 191227C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-02, 1-2 Ft		
Lab Sample ID:	196293-03	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.282**	mg/Kg		12/26/2019 11:51

Method Reference(s): EPA 7471B
Preparation Date: 12/24/2019
Data File: Hg191226B

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-02, 1-2 Ft		
Lab Sample ID:	196293-03	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0344	mg/Kg		12/23/2019 20:40
PCB-1221	< 0.0344	mg/Kg		12/23/2019 20:40
PCB-1232	< 0.0344	mg/Kg		12/23/2019 20:40
PCB-1242	< 0.0344	mg/Kg		12/23/2019 20:40
PCB-1248	< 0.0344	mg/Kg		12/23/2019 20:40
PCB-1254	< 0.0344	mg/Kg		12/23/2019 20:40
PCB-1260	< 0.0344	mg/Kg		12/23/2019 20:40
PCB-1262	< 0.0344	mg/Kg		12/23/2019 20:40
PCB-1268	< 0.0344	mg/Kg		12/23/2019 20:40

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**41.9**	18.3 - 89.6		12/23/2019 20:40

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-02, 1-2 Ft
Lab Sample ID: 196293-03 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.44	ug/Kg		12/26/2019 15:14
4,4-DDE	< 3.44	ug/Kg	D	12/26/2019 15:14
4,4-DDT	< 3.44	ug/Kg	M	12/26/2019 15:14
Aldrin	< 3.44	ug/Kg	MD	12/26/2019 15:14
alpha-BHC	< 3.44	ug/Kg	MD	12/26/2019 15:14
beta-BHC	< 3.44	ug/Kg	M	12/26/2019 15:14
cis-Chlordane	< 3.44	ug/Kg	M	12/26/2019 15:14
delta-BHC	< 3.44	ug/Kg	M	12/26/2019 15:14
Dieldrin	< 3.44	ug/Kg	MD	12/26/2019 15:14
Endosulfan I	< 3.44	ug/Kg	MD	12/26/2019 15:14
Endosulfan II	**2.75**	ug/Kg	JPMD	12/26/2019 15:14
Endosulfan Sulfate	**3.71**	ug/Kg	PM	12/26/2019 15:14
Endrin	< 3.44	ug/Kg	M	12/26/2019 15:14
Endrin Aldehyde	< 3.44	ug/Kg		12/26/2019 15:14
Endrin Ketone	**7.96**	ug/Kg	PM	12/26/2019 15:14
gamma-BHC (Lindane)	< 3.44	ug/Kg	M	12/26/2019 15:14
Heptachlor	< 3.44	ug/Kg	MD	12/26/2019 15:14
Heptachlor Epoxide	**1.76**	ug/Kg	JPMD	12/26/2019 15:14
Methoxychlor	**20.2**	ug/Kg	PM	12/26/2019 15:14
Toxaphene	< 34.4	ug/Kg		12/26/2019 15:14
trans-Chlordane	**4.64**	ug/Kg	PM	12/26/2019 15:14

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ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-02, 1-2 Ft
Lab Sample ID: 196293-03 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**99.1**	30.7 - 111		12/26/2019 15:14
Tetrachloro-m-xylene (1)	**49.8**	34.7 - 87.3		12/26/2019 15:14

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-02, 1-2 Ft
Lab Sample ID: 196293-03 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 352	ug/Kg		12/25/2019 01:01
1,2,4,5-Tetrachlorobenzene	< 352	ug/Kg		12/25/2019 01:01
1,2,4-Trichlorobenzene	< 352	ug/Kg		12/25/2019 01:01
1,2-Dichlorobenzene	< 352	ug/Kg		12/25/2019 01:01
1,3-Dichlorobenzene	< 352	ug/Kg		12/25/2019 01:01
1,4-Dichlorobenzene	< 352	ug/Kg		12/25/2019 01:01
2,2-Oxybis (1-chloropropane)	< 352	ug/Kg		12/25/2019 01:01
2,3,4,6-Tetrachlorophenol	< 352	ug/Kg		12/25/2019 01:01
2,4,5-Trichlorophenol	< 352	ug/Kg		12/25/2019 01:01
2,4,6-Trichlorophenol	< 352	ug/Kg		12/25/2019 01:01
2,4-Dichlorophenol	< 352	ug/Kg		12/25/2019 01:01
2,4-Dimethylphenol	< 352	ug/Kg		12/25/2019 01:01
2,4-Dinitrophenol	< 1410	ug/Kg		12/25/2019 01:01
2,4-Dinitrotoluene	< 352	ug/Kg		12/25/2019 01:01
2,6-Dinitrotoluene	< 352	ug/Kg		12/25/2019 01:01
2-Chloronaphthalene	< 352	ug/Kg		12/25/2019 01:01
2-Chlorophenol	< 352	ug/Kg		12/25/2019 01:01
2-Methylnapthalene	**1130**	ug/Kg		12/25/2019 01:01
2-Methylphenol	< 352	ug/Kg		12/25/2019 01:01
2-Nitroaniline	< 352	ug/Kg		12/25/2019 01:01
2-Nitrophenol	< 352	ug/Kg		12/25/2019 01:01
3&4-Methylphenol	< 352	ug/Kg		12/25/2019 01:01
3,3'-Dichlorobenzidine	< 352	ug/Kg		12/25/2019 01:01

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ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-02, 1-2 Ft
Lab Sample ID: 196293-03 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

3-Nitroaniline	< 352	ug/Kg	12/25/2019	01:01
4,6-Dinitro-2-methylphenol	< 703	ug/Kg	12/25/2019	01:01
4-Bromophenyl phenyl ether	< 352	ug/Kg	12/25/2019	01:01
4-Chloro-3-methylphenol	< 352	ug/Kg	12/25/2019	01:01
4-Chloroaniline	< 352	ug/Kg	12/25/2019	01:01
4-Chlorophenyl phenyl ether	< 352	ug/Kg	12/25/2019	01:01
4-Nitroaniline	< 352	ug/Kg	12/25/2019	01:01
4-Nitrophenol	< 352	ug/Kg	12/25/2019	01:01
Acenaphthene	< 352	ug/Kg	12/25/2019	01:01
Acenaphthylene	**482**	ug/Kg	12/25/2019	01:01
Acetophenone	< 352	ug/Kg	12/25/2019	01:01
Anthracene	**688**	ug/Kg	12/25/2019	01:01
Atrazine	< 352	ug/Kg	12/25/2019	01:01
Benzaldehyde	< 352	ug/Kg	12/25/2019	01:01
Benzo (a) anthracene	**2650**	ug/Kg	12/25/2019	01:01
Benzo (a) pyrene	**2110**	ug/Kg	12/25/2019	01:01
Benzo (b) fluoranthene	**2450**	ug/Kg	12/25/2019	01:01
Benzo (g,h,i) perylene	**1270**	ug/Kg	12/25/2019	01:01
Benzo (k) fluoranthene	**1460**	ug/Kg	12/25/2019	01:01
Bis (2-chloroethoxy) methane	< 352	ug/Kg	12/25/2019	01:01
Bis (2-chloroethyl) ether	< 352	ug/Kg	12/25/2019	01:01
Bis (2-ethylhexyl) phthalate	< 352	ug/Kg	12/25/2019	01:01
Butylbenzylphthalate	< 352	ug/Kg	12/25/2019	01:01
Caprolactam	< 352	ug/Kg	12/25/2019	01:01
Carbazole	**407**	ug/Kg	12/25/2019	01:01

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ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-02, 1-2 Ft		
Lab Sample ID:	196293-03	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Chrysene	**2600**	ug/Kg		12/25/2019	01:01
Dibenz (a,h) anthracene	**586**	ug/Kg		12/25/2019	01:01
Dibenzofuran	**493**	ug/Kg		12/25/2019	01:01
Diethyl phthalate	< 352	ug/Kg		12/25/2019	01:01
Dimethyl phthalate	< 352	ug/Kg		12/25/2019	01:01
Di-n-butyl phthalate	< 352	ug/Kg		12/25/2019	01:01
Di-n-octylphthalate	< 352	ug/Kg		12/25/2019	01:01
Fluoranthene	**6460**	ug/Kg		12/25/2019	01:01
Fluorene	**243**	ug/Kg	J	12/25/2019	01:01
Hexachlorobenzene	< 352	ug/Kg		12/25/2019	01:01
Hexachlorobutadiene	< 352	ug/Kg		12/25/2019	01:01
Hexachlorocyclopentadiene	< 1410	ug/Kg		12/25/2019	01:01
Hexachloroethane	< 352	ug/Kg		12/25/2019	01:01
Indeno (1,2,3-cd) pyrene	**1960**	ug/Kg		12/25/2019	01:01
Isophorone	< 352	ug/Kg		12/25/2019	01:01
Naphthalene	**729**	ug/Kg		12/25/2019	01:01
Nitrobenzene	< 352	ug/Kg		12/25/2019	01:01
N-Nitroso-di-n-propylamine	< 352	ug/Kg		12/25/2019	01:01
N-Nitrosodiphenylamine	< 352	ug/Kg		12/25/2019	01:01
Pentachlorophenol	< 703	ug/Kg		12/25/2019	01:01
Phenanthrene	**5050**	ug/Kg		12/25/2019	01:01
Phenol	< 352	ug/Kg		12/25/2019	01:01
Pyrene	**4270**	ug/Kg		12/25/2019	01:01

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-02, 1-2 Ft
Lab Sample ID: 196293-03 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**53.4**	35.1 - 89.5		12/25/2019	01:01
2-Fluorobiphenyl	**53.8**	37.7 - 81.4		12/25/2019	01:01
2-Fluorophenol	**53.1**	40.2 - 77		12/25/2019	01:01
Nitrobenzene-d5	**47.8**	36.2 - 78.4		12/25/2019	01:01
Phenol-d5	**52.2**	41.2 - 77.1		12/25/2019	01:01
Terphenyl-d14	**52.3**	39.8 - 97.5		12/25/2019	01:01

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/23/2019
Data File: B43327.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-02, 1-2 Ft
Lab Sample ID: 196293-03 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 3490	ug/Kg		12/31/2019 19:36
1,1,2,2-Tetrachloroethane	< 3490	ug/Kg		12/31/2019 19:36
1,1,2-Trichloroethane	< 3490	ug/Kg		12/31/2019 19:36
1,1-Dichloroethane	< 3490	ug/Kg		12/31/2019 19:36
1,1-Dichloroethene	< 3490	ug/Kg		12/31/2019 19:36
1,2,3-Trichlorobenzene	< 8720	ug/Kg		12/31/2019 19:36
1,2,4-Trichlorobenzene	< 8720	ug/Kg		12/31/2019 19:36
1,2,4-Trimethylbenzene	< 3490	ug/Kg		12/31/2019 19:36
1,2-Dibromo-3-Chloropropane	< 17400	ug/Kg		12/31/2019 19:36
1,2-Dibromoethane	< 3490	ug/Kg		12/31/2019 19:36
1,2-Dichlorobenzene	< 3490	ug/Kg		12/31/2019 19:36
1,2-Dichloroethane	< 3490	ug/Kg		12/31/2019 19:36
1,2-Dichloropropane	< 3490	ug/Kg		12/31/2019 19:36
1,3,5-Trimethylbenzene	< 3490	ug/Kg		12/31/2019 19:36
1,3-Dichlorobenzene	< 3490	ug/Kg		12/31/2019 19:36
1,4-Dichlorobenzene	< 3490	ug/Kg		12/31/2019 19:36
1,4-Dioxane	< 34900	ug/Kg		12/31/2019 19:36
2-Butanone	< 17400	ug/Kg		12/31/2019 19:36
2-Hexanone	< 8720	ug/Kg		12/31/2019 19:36
4-Methyl-2-pentanone	< 8720	ug/Kg		12/31/2019 19:36
Acetone	< 17400	ug/Kg		12/31/2019 19:36
Benzene	< 3490	ug/Kg		12/31/2019 19:36
Bromochloromethane	< 8720	ug/Kg		12/31/2019 19:36

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-02, 1-2 Ft
Lab Sample ID: 196293-03 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Bromodichloromethane	< 3490	ug/Kg		12/31/2019	19:36
Bromoform	< 8720	ug/Kg		12/31/2019	19:36
Bromomethane	< 3490	ug/Kg		12/31/2019	19:36
Carbon disulfide	< 3490	ug/Kg		12/31/2019	19:36
Carbon Tetrachloride	< 3490	ug/Kg		12/31/2019	19:36
Chlorobenzene	< 3490	ug/Kg		12/31/2019	19:36
Chloroethane	< 3490	ug/Kg		12/31/2019	19:36
Chloroform	< 3490	ug/Kg		12/31/2019	19:36
Chloromethane	< 3490	ug/Kg		12/31/2019	19:36
cis-1,2-Dichloroethene	**66100**	ug/Kg		12/31/2019	19:36
cis-1,3-Dichloropropene	< 3490	ug/Kg		12/31/2019	19:36
Cyclohexane	< 17400	ug/Kg		12/31/2019	19:36
Dibromochloromethane	< 3490	ug/Kg		12/31/2019	19:36
Dichlorodifluoromethane	< 3490	ug/Kg		12/31/2019	19:36
Ethylbenzene	< 3490	ug/Kg		12/31/2019	19:36
Freon 113	< 3490	ug/Kg		12/31/2019	19:36
Isopropylbenzene	< 3490	ug/Kg		12/31/2019	19:36
m,p-Xylene	< 3490	ug/Kg		12/31/2019	19:36
Methyl acetate	< 3490	ug/Kg		12/31/2019	19:36
Methyl tert-butyl Ether	< 3490	ug/Kg		12/31/2019	19:36
Methylcyclohexane	**2400**	ug/Kg	J	12/31/2019	19:36
Methylene chloride	< 8720	ug/Kg		12/31/2019	19:36
Naphthalene	< 8720	ug/Kg		12/31/2019	19:36
n-Butylbenzene	< 3490	ug/Kg		12/31/2019	19:36
n-Propylbenzene	< 3490	ug/Kg		12/31/2019	19:36

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-02, 1-2 Ft		
Lab Sample ID:	196293-03	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

o-Xylene	< 3490	ug/Kg		12/31/2019	19:36
p-Isopropyltoluene	< 3490	ug/Kg		12/31/2019	19:36
sec-Butylbenzene	< 3490	ug/Kg		12/31/2019	19:36
Styrene	< 8720	ug/Kg		12/31/2019	19:36
tert-Butylbenzene	< 3490	ug/Kg		12/31/2019	19:36
Tetrachloroethene	< 3490	ug/Kg		12/31/2019	19:36
Toluene	< 3490	ug/Kg		12/31/2019	19:36
trans-1,2-Dichloroethene	< 3490	ug/Kg		12/31/2019	19:36
trans-1,3-Dichloropropene	< 3490	ug/Kg		12/31/2019	19:36
Trichloroethene	**189000**	ug/Kg		12/31/2019	19:36
Trichlorofluoromethane	< 3490	ug/Kg		12/31/2019	19:36
Vinyl chloride	**2120**	ug/Kg	J	12/31/2019	19:36

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**	
1,2-Dichloroethane-d4	**123**	67.9 - 146		12/31/2019	19:36
4-Bromofluorobenzene	**81.4**	64.6 - 127		12/31/2019	19:36
Pentafluorobenzene	**100**	85.5 - 113		12/31/2019	19:36
Toluene-D8	**95.3**	83.9 - 114		12/31/2019	19:36

Method Reference(s): EPA 8260C
EPA 5035A -- H

Data File: x67568.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-02, 1-2 Ft		
Lab Sample ID:	196293-03	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**101**	mg/Kg		12/30/2019

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-02, 1-2 Ft		
Lab Sample ID:	196293-03	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**80.8**	%		12/24/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-02, 1-2 Ft		
Lab Sample ID:	196293-03	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 35.2	ug/Kg		1/2/2020 13:15

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/23/2019
Data File: B43485.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-13, 1-2 Ft
Lab Sample ID: 196293-04 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**3.45**	mg/Kg		12/27/2019 14:32
Barium	**17.9**	mg/Kg		12/27/2019 14:32
Beryllium	**0.173**	mg/Kg	J	12/27/2019 14:32
Cadmium	**0.698**	mg/Kg		12/27/2019 14:32
Chromium	**10.4**	mg/Kg		12/27/2019 14:32
Copper	**345**	mg/Kg		12/27/2019 14:32
Lead	**165**	mg/Kg		12/27/2019 14:32
Manganese	**187**	mg/Kg		12/27/2019 14:32
Nickel	**11.6**	mg/Kg		12/27/2019 14:32
Selenium	< 1.06	mg/Kg		12/27/2019 14:32
Silver	< 0.530	mg/Kg		12/27/2019 14:32
Zinc	**862**	mg/Kg		12/30/2020 17:40

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/26/2019
Data File: 191227C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-13, 1-2 Ft		
Lab Sample ID:	196293-04	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0229**	mg/Kg		12/26/2019 11:53

Method Reference(s): EPA 7471B
Preparation Date: 12/24/2019
Data File: Hg191226B

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-13, 1-2 Ft		
Lab Sample ID:	196293-04	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0320	mg/Kg		12/23/2019 21:06
PCB-1221	< 0.0320	mg/Kg		12/23/2019 21:06
PCB-1232	< 0.0320	mg/Kg		12/23/2019 21:06
PCB-1242	< 0.0320	mg/Kg		12/23/2019 21:06
PCB-1248	< 0.0320	mg/Kg		12/23/2019 21:06
PCB-1254	< 0.0320	mg/Kg		12/23/2019 21:06
PCB-1260	< 0.0320	mg/Kg		12/23/2019 21:06
PCB-1262	< 0.0320	mg/Kg		12/23/2019 21:06
PCB-1268	< 0.0320	mg/Kg		12/23/2019 21:06

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**38.4**	18.3 - 89.6		12/23/2019 21:06

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-13, 1-2 Ft
Lab Sample ID: 196293-04 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.20	ug/Kg		12/26/2019 16:10
4,4-DDE	< 3.20	ug/Kg		12/26/2019 16:10
4,4-DDT	< 3.20	ug/Kg		12/26/2019 16:10
Aldrin	< 3.20	ug/Kg		12/26/2019 16:10
alpha-BHC	< 3.20	ug/Kg		12/26/2019 16:10
beta-BHC	< 3.20	ug/Kg		12/26/2019 16:10
cis-Chlordane	< 3.20	ug/Kg		12/26/2019 16:10
delta-BHC	< 3.20	ug/Kg		12/26/2019 16:10
Dieldrin	< 3.20	ug/Kg		12/26/2019 16:10
Endosulfan I	< 3.20	ug/Kg		12/26/2019 16:10
Endosulfan II	< 3.20	ug/Kg		12/26/2019 16:10
Endosulfan Sulfate	**2.24**	ug/Kg	J	12/26/2019 16:10
Endrin	< 3.20	ug/Kg		12/26/2019 16:10
Endrin Aldehyde	< 3.20	ug/Kg		12/26/2019 16:10
Endrin Ketone	< 3.20	ug/Kg		12/26/2019 16:10
gamma-BHC (Lindane)	< 3.20	ug/Kg		12/26/2019 16:10
Heptachlor	< 3.20	ug/Kg		12/26/2019 16:10
Heptachlor Epoxide	< 3.20	ug/Kg		12/26/2019 16:10
Methoxychlor	< 3.20	ug/Kg		12/26/2019 16:10
Toxaphene	< 32.0	ug/Kg		12/26/2019 16:10
trans-Chlordane	< 3.20	ug/Kg		12/26/2019 16:10

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-13, 1-2 Ft
Lab Sample ID: 196293-04 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**21.7**	30.7 - 111	*	12/26/2019 16:10
Tetrachloro-m-xylene (1)	**32.1**	34.7 - 87.3	*	12/26/2019 16:10

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/23/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-13, 1-2 Ft
Lab Sample ID: 196293-04 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 3130	ug/Kg		12/30/2019 17:15
1,2,4,5-Tetrachlorobenzene	< 3130	ug/Kg		12/30/2019 17:15
1,2,4-Trichlorobenzene	< 3130	ug/Kg		12/30/2019 17:15
1,2-Dichlorobenzene	< 3130	ug/Kg		12/30/2019 17:15
1,3-Dichlorobenzene	< 3130	ug/Kg		12/30/2019 17:15
1,4-Dichlorobenzene	< 3130	ug/Kg		12/30/2019 17:15
2,2-Oxybis (1-chloropropane)	< 3130	ug/Kg		12/30/2019 17:15
2,3,4,6-Tetrachlorophenol	< 3130	ug/Kg		12/30/2019 17:15
2,4,5-Trichlorophenol	< 3130	ug/Kg		12/30/2019 17:15
2,4,6-Trichlorophenol	< 3130	ug/Kg		12/30/2019 17:15
2,4-Dichlorophenol	< 3130	ug/Kg		12/30/2019 17:15
2,4-Dimethylphenol	< 3130	ug/Kg		12/30/2019 17:15
2,4-Dinitrophenol	< 12500	ug/Kg		12/30/2019 17:15
2,4-Dinitrotoluene	< 3130	ug/Kg		12/30/2019 17:15
2,6-Dinitrotoluene	< 3130	ug/Kg		12/30/2019 17:15
2-Chloronaphthalene	< 3130	ug/Kg		12/30/2019 17:15
2-Chlorophenol	< 3130	ug/Kg		12/30/2019 17:15
2-Methylnapthalene	< 3130	ug/Kg		12/30/2019 17:15
2-Methylphenol	< 3130	ug/Kg		12/30/2019 17:15
2-Nitroaniline	< 3130	ug/Kg		12/30/2019 17:15
2-Nitrophenol	< 3130	ug/Kg		12/30/2019 17:15
3&4-Methylphenol	< 3130	ug/Kg		12/30/2019 17:15
3,3'-Dichlorobenzidine	< 3130	ug/Kg		12/30/2019 17:15

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-13, 1-2 Ft		
Lab Sample ID:	196293-04	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

3-Nitroaniline	< 3130	ug/Kg		12/30/2019	17:15
4,6-Dinitro-2-methylphenol	< 6250	ug/Kg		12/30/2019	17:15
4-Bromophenyl phenyl ether	< 3130	ug/Kg		12/30/2019	17:15
4-Chloro-3-methylphenol	< 3130	ug/Kg		12/30/2019	17:15
4-Chloroaniline	< 3130	ug/Kg		12/30/2019	17:15
4-Chlorophenyl phenyl ether	< 3130	ug/Kg		12/30/2019	17:15
4-Nitroaniline	< 3130	ug/Kg		12/30/2019	17:15
4-Nitrophenol	< 3130	ug/Kg		12/30/2019	17:15
Acenaphthene	< 3130	ug/Kg		12/30/2019	17:15
Acenaphthylene	< 3130	ug/Kg		12/30/2019	17:15
Acetophenone	< 3130	ug/Kg		12/30/2019	17:15
Anthracene	< 3130	ug/Kg		12/30/2019	17:15
Atrazine	< 3130	ug/Kg		12/30/2019	17:15
Benzaldehyde	< 3130	ug/Kg		12/30/2019	17:15
Benzo (a) anthracene	**2460**	ug/Kg	J	12/30/2019	17:15
Benzo (a) pyrene	**2480**	ug/Kg	J	12/30/2019	17:15
Benzo (b) fluoranthene	**3260**	ug/Kg		12/30/2019	17:15
Benzo (g,h,i) perylene	< 3130	ug/Kg		12/30/2019	17:15
Benzo (k) fluoranthene	< 3130	ug/Kg		12/30/2019	17:15
Bis (2-chloroethoxy) methane	< 3130	ug/Kg		12/30/2019	17:15
Bis (2-chloroethyl) ether	< 3130	ug/Kg		12/30/2019	17:15
Bis (2-ethylhexyl) phthalate	< 3130	ug/Kg		12/30/2019	17:15
Butylbenzylphthalate	< 3130	ug/Kg		12/30/2019	17:15
Caprolactam	< 3130	ug/Kg		12/30/2019	17:15
Carbazole	< 3130	ug/Kg		12/30/2019	17:15

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-13, 1-2 Ft
Lab Sample ID: 196293-04 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chrysene	**2670**	ug/Kg	J	12/30/2019	17:15
Dibenz (a,h) anthracene	< 3130	ug/Kg		12/30/2019	17:15
Dibenzofuran	< 3130	ug/Kg		12/30/2019	17:15
Diethyl phthalate	< 3130	ug/Kg		12/30/2019	17:15
Dimethyl phthalate	< 3130	ug/Kg		12/30/2019	17:15
Di-n-butyl phthalate	< 3130	ug/Kg		12/30/2019	17:15
Di-n-octylphthalate	< 3130	ug/Kg		12/30/2019	17:15
Fluoranthene	**5530**	ug/Kg		12/30/2019	17:15
Fluorene	< 3130	ug/Kg		12/30/2019	17:15
Hexachlorobenzene	< 3130	ug/Kg		12/30/2019	17:15
Hexachlorobutadiene	< 3130	ug/Kg		12/30/2019	17:15
Hexachlorocyclopentadiene	< 12500	ug/Kg		12/30/2019	17:15
Hexachloroethane	< 3130	ug/Kg		12/30/2019	17:15
Indeno (1,2,3-cd) pyrene	< 3130	ug/Kg		12/30/2019	17:15
Isophorone	< 3130	ug/Kg		12/30/2019	17:15
Naphthalene	< 3130	ug/Kg		12/30/2019	17:15
Nitrobenzene	< 3130	ug/Kg		12/30/2019	17:15
N-Nitroso-di-n-propylamine	< 3130	ug/Kg		12/30/2019	17:15
N-Nitrosodiphenylamine	< 3130	ug/Kg		12/30/2019	17:15
Pentachlorophenol	< 6250	ug/Kg		12/30/2019	17:15
Phenanthrene	**2570**	ug/Kg	J	12/30/2019	17:15
Phenol	< 3130	ug/Kg		12/30/2019	17:15
Pyrene	**4020**	ug/Kg		12/30/2019	17:15

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-13, 1-2 Ft
Lab Sample ID: 196293-04 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	NC	35.1 - 89.5		12/30/2019 17:15
2-Fluorobiphenyl	NC	37.7 - 81.4		12/30/2019 17:15
2-Fluorophenol	NC	40.2 - 77		12/30/2019 17:15
Nitrobenzene-d5	NC	36.2 - 78.4		12/30/2019 17:15
Phenol-d5	NC	41.2 - 77.1		12/30/2019 17:15
Terphenyl-d14	NC	39.8 - 97.5		12/30/2019 17:15

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/23/2019
Data File: B43412.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-13, 1-2 Ft
Lab Sample ID: 196293-04 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 7.84	ug/Kg		12/31/2019 15:49
1,1,2,2-Tetrachloroethane	< 7.84	ug/Kg		12/31/2019 15:49
1,1,2-Trichloroethane	< 7.84	ug/Kg		12/31/2019 15:49
1,1-Dichloroethane	< 7.84	ug/Kg		12/31/2019 15:49
1,1-Dichloroethene	< 7.84	ug/Kg		12/31/2019 15:49
1,2,3-Trichlorobenzene	< 19.6	ug/Kg		12/31/2019 15:49
1,2,4-Trichlorobenzene	< 19.6	ug/Kg		12/31/2019 15:49
1,2,4-Trimethylbenzene	< 7.84	ug/Kg		12/31/2019 15:49
1,2-Dibromo-3-Chloropropane	< 39.2	ug/Kg		12/31/2019 15:49
1,2-Dibromoethane	< 7.84	ug/Kg		12/31/2019 15:49
1,2-Dichlorobenzene	< 7.84	ug/Kg		12/31/2019 15:49
1,2-Dichloroethane	< 7.84	ug/Kg		12/31/2019 15:49
1,2-Dichloropropane	< 7.84	ug/Kg		12/31/2019 15:49
1,3,5-Trimethylbenzene	< 7.84	ug/Kg		12/31/2019 15:49
1,3-Dichlorobenzene	< 7.84	ug/Kg		12/31/2019 15:49
1,4-Dichlorobenzene	< 7.84	ug/Kg		12/31/2019 15:49
1,4-Dioxane	< 78.4	ug/Kg		12/31/2019 15:49
2-Butanone	< 39.2	ug/Kg		12/31/2019 15:49
2-Hexanone	< 19.6	ug/Kg		12/31/2019 15:49
4-Methyl-2-pentanone	< 19.6	ug/Kg		12/31/2019 15:49
Acetone	**22.4**	ug/Kg	J	12/31/2019 15:49
Benzene	< 7.84	ug/Kg		12/31/2019 15:49
Bromochloromethane	< 19.6	ug/Kg		12/31/2019 15:49

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-13, 1-2 Ft
Lab Sample ID: 196293-04 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Bromodichloromethane	< 7.84	ug/Kg		12/31/2019	15:49
Bromoform	< 19.6	ug/Kg		12/31/2019	15:49
Bromomethane	< 7.84	ug/Kg		12/31/2019	15:49
Carbon disulfide	< 7.84	ug/Kg		12/31/2019	15:49
Carbon Tetrachloride	< 7.84	ug/Kg		12/31/2019	15:49
Chlorobenzene	< 7.84	ug/Kg		12/31/2019	15:49
Chloroethane	< 7.84	ug/Kg		12/31/2019	15:49
Chloroform	< 7.84	ug/Kg		12/31/2019	15:49
Chloromethane	< 7.84	ug/Kg		12/31/2019	15:49
cis-1,2-Dichloroethene	**4.48**	ug/Kg	J	12/31/2019	15:49
cis-1,3-Dichloropropene	< 7.84	ug/Kg		12/31/2019	15:49
Cyclohexane	< 39.2	ug/Kg		12/31/2019	15:49
Dibromochloromethane	< 7.84	ug/Kg		12/31/2019	15:49
Dichlorodifluoromethane	< 7.84	ug/Kg		12/31/2019	15:49
Ethylbenzene	< 7.84	ug/Kg		12/31/2019	15:49
Freon 113	< 7.84	ug/Kg		12/31/2019	15:49
Isopropylbenzene	< 7.84	ug/Kg		12/31/2019	15:49
m,p-Xylene	< 7.84	ug/Kg		12/31/2019	15:49
Methyl acetate	< 7.84	ug/Kg		12/31/2019	15:49
Methyl tert-butyl Ether	< 7.84	ug/Kg		12/31/2019	15:49
Methylcyclohexane	< 7.84	ug/Kg		12/31/2019	15:49
Methylene chloride	< 19.6	ug/Kg		12/31/2019	15:49
Naphthalene	< 19.6	ug/Kg		12/31/2019	15:49
n-Butylbenzene	< 7.84	ug/Kg		12/31/2019	15:49
n-Propylbenzene	< 7.84	ug/Kg		12/31/2019	15:49

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-13, 1-2 Ft
Lab Sample ID: 196293-04 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

o-Xylene	< 7.84	ug/Kg	12/31/2019	15:49
p-Isopropyltoluene	< 7.84	ug/Kg	12/31/2019	15:49
sec-Butylbenzene	< 7.84	ug/Kg	12/31/2019	15:49
Styrene	< 19.6	ug/Kg	12/31/2019	15:49
tert-Butylbenzene	< 7.84	ug/Kg	12/31/2019	15:49
Tetrachloroethene	< 7.84	ug/Kg	12/31/2019	15:49
Toluene	< 7.84	ug/Kg	12/31/2019	15:49
trans-1,2-Dichloroethene	**10.1**	ug/Kg	12/31/2019	15:49
trans-1,3-Dichloropropene	< 7.84	ug/Kg	12/31/2019	15:49
Trichloroethene	**13.9**	ug/Kg	12/31/2019	15:49
Trichlorofluoromethane	< 7.84	ug/Kg	12/31/2019	15:49
Vinyl chloride	< 7.84	ug/Kg	12/31/2019	15:49

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**115**	67.9 - 146		12/31/2019	15:49
4-Bromofluorobenzene	**65.5**	64.6 - 127		12/31/2019	15:49
Pentafluorobenzene	**90.4**	85.5 - 113		12/31/2019	15:49
Toluene-D8	**90.4**	83.9 - 114		12/31/2019	15:49

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x67558.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-13, 1-2 Ft		
Lab Sample ID:	196293-04	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.515	mg/Kg		12/30/2019

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-13, 1-2 Ft		
Lab Sample ID:	196293-04	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**87.4**	%		12/24/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-13, 1-2 Ft		
Lab Sample ID:	196293-04	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 156	ug/Kg		1/2/2020 12:20

Reporting limit elevated due to sample matrix

Method Reference(s): EPA 8270D SIM
EPA 3546

Preparation Date: 12/23/2019

Data File: B43480.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-05, 1-4 Ft		
Lab Sample ID:	196293-05	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**9.25**	mg/Kg		12/27/2019 14:36
Barium	**65.0**	mg/Kg		12/27/2019 14:36
Beryllium	**0.413**	mg/Kg		12/27/2019 14:36
Cadmium	**2.14**	mg/Kg		12/27/2019 14:36
Chromium	**35.7**	mg/Kg		12/27/2019 14:36
Copper	**1090**	mg/Kg		12/30/2020 17:44
Lead	**273**	mg/Kg		12/27/2019 14:36
Manganese	**2150**	mg/Kg		12/30/2020 17:44
Nickel	**27.4**	mg/Kg		12/27/2019 14:36
Selenium	**0.925**	mg/Kg	J	12/27/2019 14:36
Silver	**1.20**	mg/Kg		12/27/2019 14:36
Zinc	**394**	mg/Kg		12/30/2020 17:44

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/26/2019
Data File: 191227C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-05, 1-4 Ft		
Lab Sample ID:	196293-05	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.220**	mg/Kg		12/26/2019 11:54

Method Reference(s): EPA 7471B
Preparation Date: 12/24/2019
Data File: Hg191226B

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-05, 1-4 Ft		
Lab Sample ID:	196293-05	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0316	mg/Kg		12/23/2019 21:30
PCB-1221	< 0.0316	mg/Kg		12/23/2019 21:30
PCB-1232	< 0.0316	mg/Kg		12/23/2019 21:30
PCB-1242	< 0.0316	mg/Kg		12/23/2019 21:30
PCB-1248	< 0.0316	mg/Kg		12/23/2019 21:30
PCB-1254	< 0.0316	mg/Kg		12/23/2019 21:30
PCB-1260	< 0.0316	mg/Kg		12/23/2019 21:30
PCB-1262	< 0.0316	mg/Kg		12/23/2019 21:30
PCB-1268	< 0.0316	mg/Kg		12/23/2019 21:30

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**44.0**	18.3 - 89.6		12/23/2019 21:30

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-05, 1-4 Ft
Lab Sample ID: 196293-05 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**11.0**	ug/Kg		12/26/2019 16:29
4,4-DDE	**1.81**	ug/Kg	JP	12/26/2019 16:29
4,4-DDT	**10.5**	ug/Kg	P	12/26/2019 16:29
Aldrin	< 3.16	ug/Kg		12/26/2019 16:29
alpha-BHC	< 3.16	ug/Kg		12/26/2019 16:29
beta-BHC	**1.81**	ug/Kg	JP	12/26/2019 16:29
cis-Chlordane	**3.48**	ug/Kg		12/26/2019 16:29
delta-BHC	< 3.16	ug/Kg		12/26/2019 16:29
Dieldrin	< 3.16	ug/Kg		12/26/2019 16:29
Endosulfan I	< 3.16	ug/Kg		12/26/2019 16:29
Endosulfan II	**1.72**	ug/Kg	JP	12/26/2019 16:29
Endosulfan Sulfate	**14.2**	ug/Kg	P	12/26/2019 16:29
Endrin	**3.00**	ug/Kg	JP	12/26/2019 16:29
Endrin Aldehyde	**17.3**	ug/Kg		12/26/2019 16:29
Endrin Ketone	**12.2**	ug/Kg	P	12/26/2019 16:29
gamma-BHC (Lindane)	< 3.16	ug/Kg		12/26/2019 16:29
Heptachlor	**2.46**	ug/Kg	JP	12/26/2019 16:29
Heptachlor Epoxide	< 3.16	ug/Kg		12/26/2019 16:29
Methoxychlor	**24.9**	ug/Kg	P	12/26/2019 16:29
Toxaphene	< 31.6	ug/Kg		12/26/2019 16:29
trans-Chlordane	**4.46**	ug/Kg	P	12/26/2019 16:29

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-05, 1-4 Ft
Lab Sample ID: 196293-05 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**223**	30.7 - 111	*	12/26/2019 16:29
Tetrachloro-m-xylene (1)	**52.2**	34.7 - 87.3		12/26/2019 16:29

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/23/2019

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Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-05, 1-4 Ft
Lab Sample ID: 196293-05 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 1690	ug/Kg		12/30/2019 17:45
1,2,4,5-Tetrachlorobenzene	< 1690	ug/Kg		12/30/2019 17:45
1,2,4-Trichlorobenzene	< 1690	ug/Kg		12/30/2019 17:45
1,2-Dichlorobenzene	< 1690	ug/Kg		12/30/2019 17:45
1,3-Dichlorobenzene	< 1690	ug/Kg		12/30/2019 17:45
1,4-Dichlorobenzene	< 1690	ug/Kg		12/30/2019 17:45
2,2-Oxybis (1-chloropropane)	< 1690	ug/Kg		12/30/2019 17:45
2,3,4,6-Tetrachlorophenol	< 1690	ug/Kg		12/30/2019 17:45
2,4,5-Trichlorophenol	< 1690	ug/Kg		12/30/2019 17:45
2,4,6-Trichlorophenol	< 1690	ug/Kg		12/30/2019 17:45
2,4-Dichlorophenol	< 1690	ug/Kg		12/30/2019 17:45
2,4-Dimethylphenol	< 1690	ug/Kg		12/30/2019 17:45
2,4-Dinitrophenol	< 6770	ug/Kg		12/30/2019 17:45
2,4-Dinitrotoluene	< 1690	ug/Kg		12/30/2019 17:45
2,6-Dinitrotoluene	< 1690	ug/Kg		12/30/2019 17:45
2-Chloronaphthalene	< 1690	ug/Kg		12/30/2019 17:45
2-Chlorophenol	< 1690	ug/Kg		12/30/2019 17:45
2-Methylnapthalene	**1140**	ug/Kg	J	12/30/2019 17:45
2-Methylphenol	< 1690	ug/Kg		12/30/2019 17:45
2-Nitroaniline	< 1690	ug/Kg		12/30/2019 17:45
2-Nitrophenol	< 1690	ug/Kg		12/30/2019 17:45
3&4-Methylphenol	< 1690	ug/Kg		12/30/2019 17:45
3,3'-Dichlorobenzidine	< 1690	ug/Kg		12/30/2019 17:45

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-05, 1-4 Ft
Lab Sample ID: 196293-05 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

3-Nitroaniline	< 1690	ug/Kg	12/30/2019	17:45
4,6-Dinitro-2-methylphenol	< 3390	ug/Kg	12/30/2019	17:45
4-Bromophenyl phenyl ether	< 1690	ug/Kg	12/30/2019	17:45
4-Chloro-3-methylphenol	< 1690	ug/Kg	12/30/2019	17:45
4-Chloroaniline	< 1690	ug/Kg	12/30/2019	17:45
4-Chlorophenyl phenyl ether	< 1690	ug/Kg	12/30/2019	17:45
4-Nitroaniline	< 1690	ug/Kg	12/30/2019	17:45
4-Nitrophenol	< 1690	ug/Kg	12/30/2019	17:45
Acenaphthene	**3610**	ug/Kg	12/30/2019	17:45
Acenaphthylene	< 1690	ug/Kg	12/30/2019	17:45
Acetophenone	< 1690	ug/Kg	12/30/2019	17:45
Anthracene	**8900**	ug/Kg	12/30/2019	17:45
Atrazine	< 1690	ug/Kg	12/30/2019	17:45
Benzaldehyde	< 1690	ug/Kg	12/30/2019	17:45
Benzo (a) anthracene	**16600**	ug/Kg	12/30/2019	17:45
Benzo (a) pyrene	**12500**	ug/Kg	12/30/2019	17:45
Benzo (b) fluoranthene	**10900**	ug/Kg	12/30/2019	17:45
Benzo (g,h,i) perylene	**6230**	ug/Kg	12/30/2019	17:45
Benzo (k) fluoranthene	**10100**	ug/Kg	12/30/2019	17:45
Bis (2-chloroethoxy) methane	< 1690	ug/Kg	12/30/2019	17:45
Bis (2-chloroethyl) ether	< 1690	ug/Kg	12/30/2019	17:45
Bis (2-ethylhexyl) phthalate	< 1690	ug/Kg	12/30/2019	17:45
Butylbenzylphthalate	< 1690	ug/Kg	12/30/2019	17:45
Caprolactam	< 1690	ug/Kg	12/30/2019	17:45
Carbazole	**5010**	ug/Kg	12/30/2019	17:45

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-05, 1-4 Ft
Lab Sample ID: 196293-05 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chrysene	**13900**	ug/Kg	12/30/2019	17:45
Dibenz (a,h) anthracene	**1850**	ug/Kg	12/30/2019	17:45
Dibenzofuran	**3050**	ug/Kg	12/30/2019	17:45
Diethyl phthalate	< 1690	ug/Kg	12/30/2019	17:45
Dimethyl phthalate	< 1690	ug/Kg	12/30/2019	17:45
Di-n-butyl phthalate	< 1690	ug/Kg	12/30/2019	17:45
Di-n-octylphthalate	< 1690	ug/Kg	12/30/2019	17:45
Fluoranthene	**37000**	ug/Kg	12/30/2019	17:45
Fluorene	**4020**	ug/Kg	12/30/2019	17:45
Hexachlorobenzene	< 1690	ug/Kg	12/30/2019	17:45
Hexachlorobutadiene	< 1690	ug/Kg	12/30/2019	17:45
Hexachlorocyclopentadiene	< 6770	ug/Kg	12/30/2019	17:45
Hexachloroethane	< 1690	ug/Kg	12/30/2019	17:45
Indeno (1,2,3-cd) pyrene	**7710**	ug/Kg	12/30/2019	17:45
Isophorone	< 1690	ug/Kg	12/30/2019	17:45
Naphthalene	**1710**	ug/Kg	12/30/2019	17:45
Nitrobenzene	< 1690	ug/Kg	12/30/2019	17:45
N-Nitroso-di-n-propylamine	< 1690	ug/Kg	12/30/2019	17:45
N-Nitrosodiphenylamine	< 1690	ug/Kg	12/30/2019	17:45
Pentachlorophenol	< 3390	ug/Kg	12/30/2019	17:45
Phenanthrene	**36200**	ug/Kg	12/30/2019	17:45
Phenol	< 1690	ug/Kg	12/30/2019	17:45
Pyrene	**25100**	ug/Kg	12/30/2019	17:45

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-05, 1-4 Ft
Lab Sample ID: 196293-05 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**58.0**	35.1 - 89.5		12/30/2019 17:45
2-Fluorobiphenyl	**63.1**	37.7 - 81.4		12/30/2019 17:45
2-Fluorophenol	**61.3**	40.2 - 77		12/30/2019 17:45
Nitrobenzene-d5	**59.7**	36.2 - 78.4		12/30/2019 17:45
Phenol-d5	**61.7**	41.2 - 77.1		12/30/2019 17:45
Terphenyl-d14	**64.7**	39.8 - 97.5		12/30/2019 17:45

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/23/2019
Data File: B43413.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-05, 1-4 Ft
Lab Sample ID: 196293-05 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 82.2	ug/Kg		12/31/2019 15:03
1,1,2,2-Tetrachloroethane	< 82.2	ug/Kg		12/31/2019 15:03
1,1,2-Trichloroethane	< 82.2	ug/Kg		12/31/2019 15:03
1,1-Dichloroethane	< 82.2	ug/Kg		12/31/2019 15:03
1,1-Dichloroethene	< 82.2	ug/Kg		12/31/2019 15:03
1,2,3-Trichlorobenzene	< 206	ug/Kg		12/31/2019 15:03
1,2,4-Trichlorobenzene	< 206	ug/Kg		12/31/2019 15:03
1,2,4-Trimethylbenzene	< 82.2	ug/Kg		12/31/2019 15:03
1,2-Dibromo-3-Chloropropane	< 411	ug/Kg		12/31/2019 15:03
1,2-Dibromoethane	< 82.2	ug/Kg		12/31/2019 15:03
1,2-Dichlorobenzene	< 82.2	ug/Kg		12/31/2019 15:03
1,2-Dichloroethane	< 82.2	ug/Kg		12/31/2019 15:03
1,2-Dichloropropane	< 82.2	ug/Kg		12/31/2019 15:03
1,3,5-Trimethylbenzene	< 82.2	ug/Kg		12/31/2019 15:03
1,3-Dichlorobenzene	< 82.2	ug/Kg		12/31/2019 15:03
1,4-Dichlorobenzene	< 82.2	ug/Kg		12/31/2019 15:03
1,4-Dioxane	< 822	ug/Kg		12/31/2019 15:03
2-Butanone	< 411	ug/Kg		12/31/2019 15:03
2-Hexanone	< 206	ug/Kg		12/31/2019 15:03
4-Methyl-2-pentanone	< 206	ug/Kg		12/31/2019 15:03
Acetone	< 411	ug/Kg		12/31/2019 15:03
Benzene	< 82.2	ug/Kg		12/31/2019 15:03
Bromochloromethane	< 206	ug/Kg		12/31/2019 15:03

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-05, 1-4 Ft
Lab Sample ID: 196293-05 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Bromodichloromethane	< 82.2	ug/Kg	12/31/2019	15:03
Bromoform	< 206	ug/Kg	12/31/2019	15:03
Bromomethane	< 82.2	ug/Kg	12/31/2019	15:03
Carbon disulfide	< 82.2	ug/Kg	12/31/2019	15:03
Carbon Tetrachloride	< 82.2	ug/Kg	12/31/2019	15:03
Chlorobenzene	< 82.2	ug/Kg	12/31/2019	15:03
Chloroethane	< 82.2	ug/Kg	12/31/2019	15:03
Chloroform	< 82.2	ug/Kg	12/31/2019	15:03
Chloromethane	< 82.2	ug/Kg	12/31/2019	15:03
cis-1,2-Dichloroethene	< 82.2	ug/Kg	12/31/2019	15:03
cis-1,3-Dichloropropene	< 82.2	ug/Kg	12/31/2019	15:03
Cyclohexane	< 411	ug/Kg	12/31/2019	15:03
Dibromochloromethane	< 82.2	ug/Kg	12/31/2019	15:03
Dichlorodifluoromethane	< 82.2	ug/Kg	12/31/2019	15:03
Ethylbenzene	< 82.2	ug/Kg	12/31/2019	15:03
Freon 113	< 82.2	ug/Kg	12/31/2019	15:03
Isopropylbenzene	< 82.2	ug/Kg	12/31/2019	15:03
m,p-Xylene	< 82.2	ug/Kg	12/31/2019	15:03
Methyl acetate	< 82.2	ug/Kg	12/31/2019	15:03
Methyl tert-butyl Ether	< 82.2	ug/Kg	12/31/2019	15:03
Methylcyclohexane	< 82.2	ug/Kg	12/31/2019	15:03
Methylene chloride	< 206	ug/Kg	12/31/2019	15:03
Naphthalene	< 206	ug/Kg	12/31/2019	15:03
n-Butylbenzene	< 82.2	ug/Kg	12/31/2019	15:03
n-Propylbenzene	< 82.2	ug/Kg	12/31/2019	15:03

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-05, 1-4 Ft		
Lab Sample ID:	196293-05	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

o-Xylene	< 82.2	ug/Kg		12/31/2019	15:03
p-Isopropyltoluene	< 82.2	ug/Kg		12/31/2019	15:03
sec-Butylbenzene	< 82.2	ug/Kg		12/31/2019	15:03
Styrene	< 206	ug/Kg		12/31/2019	15:03
tert-Butylbenzene	< 82.2	ug/Kg		12/31/2019	15:03
Tetrachloroethene	< 82.2	ug/Kg		12/31/2019	15:03
Toluene	< 82.2	ug/Kg		12/31/2019	15:03
trans-1,2-Dichloroethene	**42.9**	ug/Kg	J	12/31/2019	15:03
trans-1,3-Dichloropropene	< 82.2	ug/Kg		12/31/2019	15:03
Trichloroethene	**89.1**	ug/Kg		12/31/2019	15:03
Trichlorofluoromethane	< 82.2	ug/Kg		12/31/2019	15:03
Vinyl chloride	< 82.2	ug/Kg		12/31/2019	15:03

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**115**	67.9 - 146		12/31/2019	15:03
4-Bromofluorobenzene	**72.6**	64.6 - 127		12/31/2019	15:03
Pentafluorobenzene	**93.9**	85.5 - 113		12/31/2019	15:03
Toluene-D8	**91.6**	83.9 - 114		12/31/2019	15:03

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x67556.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-05, 1-4 Ft		
Lab Sample ID:	196293-05	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.595	mg/Kg		12/30/2019

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-05, 1-4 Ft		
Lab Sample ID:	196293-05	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**81.6**	%		12/24/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-05, 1-4 Ft		
Lab Sample ID:	196293-05	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 33.9	ug/Kg		1/2/2020 13:26

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/23/2019
Data File: B43486.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-06, 1-4 Ft
Lab Sample ID: 196293-06 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**4.78**	mg/Kg		12/27/2019 14:40
Barium	**59.4**	mg/Kg		12/27/2019 14:40
Beryllium	**0.380**	mg/Kg		12/27/2019 14:40
Cadmium	**1.03**	mg/Kg		12/27/2019 14:40
Chromium	**14.6**	mg/Kg		12/27/2019 14:40
Copper	**151**	mg/Kg		12/27/2019 14:40
Lead	**161**	mg/Kg		12/27/2019 14:40
Manganese	**661**	mg/Kg		12/30/2020 17:49
Nickel	**11.1**	mg/Kg		12/27/2019 14:40
Selenium	< 1.01	mg/Kg		12/27/2019 14:40
Silver	**0.483**	mg/Kg	J	12/27/2019 14:40
Zinc	**218**	mg/Kg		12/30/2020 17:49

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/26/2019
Data File: 191227C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-06, 1-4 Ft		
Lab Sample ID:	196293-06	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0489**	mg/Kg		12/26/2019 12:00

Method Reference(s): EPA 7471B
Preparation Date: 12/24/2019
Data File: Hg191226B

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-06, 1-4 Ft		
Lab Sample ID:	196293-06	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0303	mg/Kg		12/27/2019 12:30
PCB-1221	< 0.0303	mg/Kg		12/27/2019 12:30
PCB-1232	< 0.0303	mg/Kg		12/27/2019 12:30
PCB-1242	< 0.0303	mg/Kg		12/27/2019 12:30
PCB-1248	< 0.0303	mg/Kg		12/27/2019 12:30
PCB-1254	**0.0341**	mg/Kg		12/27/2019 12:30
PCB-1260	< 0.0303	mg/Kg		12/27/2019 12:30
PCB-1262	< 0.0303	mg/Kg		12/27/2019 12:30
PCB-1268	< 0.0303	mg/Kg		12/27/2019 12:30

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**41.0**	18.3 - 89.6		12/27/2019 12:30

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-06, 1-4 Ft
Lab Sample ID: 196293-06 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.03	ug/Kg		12/26/2019 16:48
4,4-DDE	< 3.03	ug/Kg		12/26/2019 16:48
4,4-DDT	**6.55**	ug/Kg		12/26/2019 16:48
Aldrin	< 3.03	ug/Kg		12/26/2019 16:48
alpha-BHC	< 3.03	ug/Kg		12/26/2019 16:48
beta-BHC	< 3.03	ug/Kg		12/26/2019 16:48
cis-Chlordane	< 3.03	ug/Kg		12/26/2019 16:48
delta-BHC	< 3.03	ug/Kg		12/26/2019 16:48
Dieldrin	< 3.03	ug/Kg		12/26/2019 16:48
Endosulfan I	< 3.03	ug/Kg		12/26/2019 16:48
Endosulfan II	< 3.03	ug/Kg		12/26/2019 16:48
Endosulfan Sulfate	**2.42**	ug/Kg	JP	12/26/2019 16:48
Endrin	< 3.03	ug/Kg		12/26/2019 16:48
Endrin Aldehyde	**5.15**	ug/Kg		12/26/2019 16:48
Endrin Ketone	**1.96**	ug/Kg	J	12/26/2019 16:48
gamma-BHC (Lindane)	< 3.03	ug/Kg		12/26/2019 16:48
Heptachlor	< 3.03	ug/Kg		12/26/2019 16:48
Heptachlor Epoxide	< 3.03	ug/Kg		12/26/2019 16:48
Methoxychlor	**2.66**	ug/Kg	JP	12/26/2019 16:48
Toxaphene	< 30.3	ug/Kg		12/26/2019 16:48
trans-Chlordane	**3.14**	ug/Kg	P	12/26/2019 16:48

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-06, 1-4 Ft
Lab Sample ID: 196293-06 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**28.3**	30.7 - 111	*	12/26/2019 16:48
Tetrachloro-m-xylene (1)	**48.0**	34.7 - 87.3		12/26/2019 16:48

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/23/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-06, 1-4 Ft
Lab Sample ID: 196293-06 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 295	ug/Kg		12/25/2019 02:27
1,2,4,5-Tetrachlorobenzene	< 295	ug/Kg		12/25/2019 02:27
1,2,4-Trichlorobenzene	< 295	ug/Kg		12/25/2019 02:27
1,2-Dichlorobenzene	< 295	ug/Kg		12/25/2019 02:27
1,3-Dichlorobenzene	< 295	ug/Kg		12/25/2019 02:27
1,4-Dichlorobenzene	< 295	ug/Kg		12/25/2019 02:27
2,2-Oxybis (1-chloropropane)	< 295	ug/Kg		12/25/2019 02:27
2,3,4,6-Tetrachlorophenol	< 295	ug/Kg		12/25/2019 02:27
2,4,5-Trichlorophenol	< 295	ug/Kg		12/25/2019 02:27
2,4,6-Trichlorophenol	< 295	ug/Kg		12/25/2019 02:27
2,4-Dichlorophenol	< 295	ug/Kg		12/25/2019 02:27
2,4-Dimethylphenol	< 295	ug/Kg		12/25/2019 02:27
2,4-Dinitrophenol	< 1180	ug/Kg		12/25/2019 02:27
2,4-Dinitrotoluene	< 295	ug/Kg		12/25/2019 02:27
2,6-Dinitrotoluene	< 295	ug/Kg		12/25/2019 02:27
2-Chloronaphthalene	< 295	ug/Kg		12/25/2019 02:27
2-Chlorophenol	< 295	ug/Kg		12/25/2019 02:27
2-Methylnapthalene	**200**	ug/Kg	J	12/25/2019 02:27
2-Methylphenol	< 295	ug/Kg		12/25/2019 02:27
2-Nitroaniline	< 295	ug/Kg		12/25/2019 02:27
2-Nitrophenol	< 295	ug/Kg		12/25/2019 02:27
3&4-Methylphenol	< 295	ug/Kg		12/25/2019 02:27
3,3'-Dichlorobenzidine	< 295	ug/Kg		12/25/2019 02:27

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-06, 1-4 Ft
Lab Sample ID: 196293-06 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

3-Nitroaniline	< 295	ug/Kg		12/25/2019	02:27
4,6-Dinitro-2-methylphenol	< 590	ug/Kg		12/25/2019	02:27
4-Bromophenyl phenyl ether	< 295	ug/Kg		12/25/2019	02:27
4-Chloro-3-methylphenol	< 295	ug/Kg		12/25/2019	02:27
4-Chloroaniline	< 295	ug/Kg		12/25/2019	02:27
4-Chlorophenyl phenyl ether	< 295	ug/Kg		12/25/2019	02:27
4-Nitroaniline	< 295	ug/Kg		12/25/2019	02:27
4-Nitrophenol	< 295	ug/Kg		12/25/2019	02:27
Acenaphthene	< 295	ug/Kg		12/25/2019	02:27
Acenaphthylene	< 295	ug/Kg		12/25/2019	02:27
Acetophenone	< 295	ug/Kg		12/25/2019	02:27
Anthracene	**308**	ug/Kg		12/25/2019	02:27
Atrazine	< 295	ug/Kg		12/25/2019	02:27
Benzaldehyde	< 295	ug/Kg		12/25/2019	02:27
Benzo (a) anthracene	**1050**	ug/Kg		12/25/2019	02:27
Benzo (a) pyrene	**968**	ug/Kg		12/25/2019	02:27
Benzo (b) fluoranthene	**1080**	ug/Kg		12/25/2019	02:27
Benzo (g,h,i) perylene	**706**	ug/Kg		12/25/2019	02:27
Benzo (k) fluoranthene	**599**	ug/Kg		12/25/2019	02:27
Bis (2-chloroethoxy) methane	< 295	ug/Kg		12/25/2019	02:27
Bis (2-chloroethyl) ether	< 295	ug/Kg		12/25/2019	02:27
Bis (2-ethylhexyl) phthalate	< 295	ug/Kg		12/25/2019	02:27
Butylbenzylphthalate	< 295	ug/Kg		12/25/2019	02:27
Caprolactam	< 295	ug/Kg		12/25/2019	02:27
Carbazole	**239**	ug/Kg	J	12/25/2019	02:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-06, 1-4 Ft
Lab Sample ID: 196293-06 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Chrysene	**1050**	ug/Kg		12/25/2019	02:27
Dibenz (a,h) anthracene	**268**	ug/Kg	J	12/25/2019	02:27
Dibenzofuran	< 295	ug/Kg		12/25/2019	02:27
Diethyl phthalate	< 295	ug/Kg		12/25/2019	02:27
Dimethyl phthalate	< 295	ug/Kg		12/25/2019	02:27
Di-n-butyl phthalate	< 295	ug/Kg		12/25/2019	02:27
Di-n-octylphthalate	< 295	ug/Kg		12/25/2019	02:27
Fluoranthene	**2380**	ug/Kg		12/25/2019	02:27
Fluorene	< 295	ug/Kg		12/25/2019	02:27
Hexachlorobenzene	< 295	ug/Kg		12/25/2019	02:27
Hexachlorobutadiene	< 295	ug/Kg		12/25/2019	02:27
Hexachlorocyclopentadiene	< 1180	ug/Kg		12/25/2019	02:27
Hexachloroethane	< 295	ug/Kg		12/25/2019	02:27
Indeno (1,2,3-cd) pyrene	**714**	ug/Kg		12/25/2019	02:27
Isophorone	< 295	ug/Kg		12/25/2019	02:27
Naphthalene	< 295	ug/Kg		12/25/2019	02:27
Nitrobenzene	< 295	ug/Kg		12/25/2019	02:27
N-Nitroso-di-n-propylamine	< 295	ug/Kg		12/25/2019	02:27
N-Nitrosodiphenylamine	< 295	ug/Kg		12/25/2019	02:27
Pentachlorophenol	< 590	ug/Kg		12/25/2019	02:27
Phenanthrene	**1440**	ug/Kg		12/25/2019	02:27
Phenol	< 295	ug/Kg		12/25/2019	02:27
Pyrene	**1550**	ug/Kg		12/25/2019	02:27

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-06, 1-4 Ft
Lab Sample ID: 196293-06 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**39.7**	35.1 - 89.5		12/25/2019 02:27
2-Fluorobiphenyl	**42.6**	37.7 - 81.4		12/25/2019 02:27
2-Fluorophenol	**42.8**	40.2 - 77		12/25/2019 02:27
Nitrobenzene-d5	**39.8**	36.2 - 78.4		12/25/2019 02:27
Phenol-d5	**41.5**	41.2 - 77.1		12/25/2019 02:27
Terphenyl-d14	**41.2**	39.8 - 97.5		12/25/2019 02:27

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/23/2019
Data File: B43330.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-06, 1-4 Ft
Lab Sample ID: 196293-06 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 6.10	ug/Kg		12/31/2019 17:42
1,1,2,2-Tetrachloroethane	< 6.10	ug/Kg		12/31/2019 17:42
1,1,2-Trichloroethane	< 6.10	ug/Kg		12/31/2019 17:42
1,1-Dichloroethane	< 6.10	ug/Kg		12/31/2019 17:42
1,1-Dichloroethene	< 6.10	ug/Kg		12/31/2019 17:42
1,2,3-Trichlorobenzene	< 15.2	ug/Kg		12/31/2019 17:42
1,2,4-Trichlorobenzene	< 15.2	ug/Kg		12/31/2019 17:42
1,2,4-Trimethylbenzene	< 6.10	ug/Kg		12/31/2019 17:42
1,2-Dibromo-3-Chloropropane	< 30.5	ug/Kg		12/31/2019 17:42
1,2-Dibromoethane	< 6.10	ug/Kg		12/31/2019 17:42
1,2-Dichlorobenzene	< 6.10	ug/Kg		12/31/2019 17:42
1,2-Dichloroethane	< 6.10	ug/Kg		12/31/2019 17:42
1,2-Dichloropropane	< 6.10	ug/Kg		12/31/2019 17:42
1,3,5-Trimethylbenzene	< 6.10	ug/Kg		12/31/2019 17:42
1,3-Dichlorobenzene	< 6.10	ug/Kg		12/31/2019 17:42
1,4-Dichlorobenzene	< 6.10	ug/Kg		12/31/2019 17:42
1,4-Dioxane	< 61.0	ug/Kg		12/31/2019 17:42
2-Butanone	< 30.5	ug/Kg		12/31/2019 17:42
2-Hexanone	< 15.2	ug/Kg		12/31/2019 17:42
4-Methyl-2-pentanone	< 15.2	ug/Kg		12/31/2019 17:42
Acetone	< 30.5	ug/Kg		12/31/2019 17:42
Benzene	< 6.10	ug/Kg		12/31/2019 17:42
Bromochloromethane	< 15.2	ug/Kg		12/31/2019 17:42

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-06, 1-4 Ft
Lab Sample ID: 196293-06 **Date Sampled:** 12/18/2019
Matrix: Soil **Date Received:** 12/20/2019

Bromodichloromethane	< 6.10	ug/Kg	12/31/2019	17:42
Bromoform	< 15.2	ug/Kg	12/31/2019	17:42
Bromomethane	< 6.10	ug/Kg	12/31/2019	17:42
Carbon disulfide	< 6.10	ug/Kg	12/31/2019	17:42
Carbon Tetrachloride	< 6.10	ug/Kg	12/31/2019	17:42
Chlorobenzene	< 6.10	ug/Kg	12/31/2019	17:42
Chloroethane	< 6.10	ug/Kg	12/31/2019	17:42
Chloroform	< 6.10	ug/Kg	12/31/2019	17:42
Chloromethane	< 6.10	ug/Kg	12/31/2019	17:42
cis-1,2-Dichloroethene	< 6.10	ug/Kg	12/31/2019	17:42
cis-1,3-Dichloropropene	< 6.10	ug/Kg	12/31/2019	17:42
Cyclohexane	< 30.5	ug/Kg	12/31/2019	17:42
Dibromochloromethane	< 6.10	ug/Kg	12/31/2019	17:42
Dichlorodifluoromethane	< 6.10	ug/Kg	12/31/2019	17:42
Ethylbenzene	< 6.10	ug/Kg	12/31/2019	17:42
Freon 113	< 6.10	ug/Kg	12/31/2019	17:42
Isopropylbenzene	< 6.10	ug/Kg	12/31/2019	17:42
m,p-Xylene	< 6.10	ug/Kg	12/31/2019	17:42
Methyl acetate	< 6.10	ug/Kg	12/31/2019	17:42
Methyl tert-butyl Ether	< 6.10	ug/Kg	12/31/2019	17:42
Methylcyclohexane	< 6.10	ug/Kg	12/31/2019	17:42
Methylene chloride	< 15.2	ug/Kg	12/31/2019	17:42
Naphthalene	< 15.2	ug/Kg	12/31/2019	17:42
n-Butylbenzene	< 6.10	ug/Kg	12/31/2019	17:42
n-Propylbenzene	< 6.10	ug/Kg	12/31/2019	17:42

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-06, 1-4 Ft		
Lab Sample ID:	196293-06	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

o-Xylene	< 6.10	ug/Kg		12/31/2019	17:42
p-Isopropyltoluene	< 6.10	ug/Kg		12/31/2019	17:42
sec-Butylbenzene	< 6.10	ug/Kg		12/31/2019	17:42
Styrene	< 15.2	ug/Kg		12/31/2019	17:42
tert-Butylbenzene	< 6.10	ug/Kg		12/31/2019	17:42
Tetrachloroethene	< 6.10	ug/Kg		12/31/2019	17:42
Toluene	< 6.10	ug/Kg		12/31/2019	17:42
trans-1,2-Dichloroethene	**6.76**	ug/Kg		12/31/2019	17:42
trans-1,3-Dichloropropene	< 6.10	ug/Kg		12/31/2019	17:42
Trichloroethene	**3.82**	ug/Kg	J	12/31/2019	17:42
Trichlorofluoromethane	< 6.10	ug/Kg		12/31/2019	17:42
Vinyl chloride	< 6.10	ug/Kg		12/31/2019	17:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**118**	67.9 - 146		12/31/2019	17:42
4-Bromofluorobenzene	**73.4**	64.6 - 127		12/31/2019	17:42
Pentafluorobenzene	**91.2**	85.5 - 113		12/31/2019	17:42
Toluene-D8	**88.3**	83.9 - 114		12/31/2019	17:42

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x67563.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-06, 1-4 Ft		
Lab Sample ID:	196293-06	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.517	mg/Kg		12/30/2019

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-06, 1-4 Ft		
Lab Sample ID:	196293-06	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**92.2**	%		12/24/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-06, 1-4 Ft		
Lab Sample ID:	196293-06	**Date Sampled:**	12/18/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 147	ug/Kg		1/2/2020 13:37

Reporting limit elevated due to sample matrix

Method Reference(s): EPA 8270D SIM
EPA 3546

Preparation Date: 12/23/2019

Data File: B43487.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-11, 1-4 Ft		
Lab Sample ID:	196293-12	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**4.10**	mg/Kg		12/27/2019 15:15
Barium	**248**	mg/Kg		12/27/2019 15:15
Beryllium	**0.246**	mg/Kg	J	12/27/2019 15:15
Cadmium	**2.07**	mg/Kg		12/27/2019 15:15
Chromium	**27.5**	mg/Kg		12/27/2019 15:15
Copper	**84.4**	mg/Kg		12/27/2019 15:15
Lead	**825**	mg/Kg		12/27/2019 15:15
Manganese	**832**	mg/Kg		1/2/2020 09:44
Nickel	**18.1**	mg/Kg		12/27/2019 15:15
Selenium	**0.646**	mg/Kg	J	12/27/2019 15:15
Silver	**1.22**	mg/Kg		12/27/2019 15:15
Zinc	**1660**	mg/Kg		1/2/2020 09:44

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/26/2019
Data File: 191227C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-11, 1-4 Ft		
Lab Sample ID:	196293-12	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.217**	mg/Kg		12/26/2019 12:12

Method Reference(s): EPA 7471B
Preparation Date: 12/24/2019
Data File: Hg191226B

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-11, 1-4 Ft		
Lab Sample ID:	196293-12	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0317	mg/Kg		12/26/2019 19:24
PCB-1221	< 0.0317	mg/Kg		12/26/2019 19:24
PCB-1232	< 0.0317	mg/Kg		12/26/2019 19:24
PCB-1242	< 0.0317	mg/Kg		12/26/2019 19:24
PCB-1248	< 0.0317	mg/Kg		12/26/2019 19:24
PCB-1254	< 0.0317	mg/Kg		12/26/2019 19:24
PCB-1260	< 0.0317	mg/Kg		12/26/2019 19:24
PCB-1262	< 0.0317	mg/Kg		12/26/2019 19:24
PCB-1268	< 0.0317	mg/Kg		12/26/2019 19:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**78.5**	18.3 - 89.6		12/26/2019 19:24

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11, 1-4 Ft
Lab Sample ID: 196293-12 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.17	ug/Kg		12/26/2019 18:40
4,4-DDE	**2.68**	ug/Kg	J	12/26/2019 18:40
4,4-DDT	< 3.17	ug/Kg		12/26/2019 18:40
Aldrin	< 3.17	ug/Kg		12/26/2019 18:40
alpha-BHC	**2.98**	ug/Kg	JP	12/26/2019 18:40
beta-BHC	< 3.17	ug/Kg		12/26/2019 18:40
cis-Chlordane	**2.47**	ug/Kg	JP	12/26/2019 18:40
delta-BHC	< 3.17	ug/Kg		12/26/2019 18:40
Dieldrin	< 3.17	ug/Kg		12/26/2019 18:40
Endosulfan I	**2.38**	ug/Kg	JP	12/26/2019 18:40
Endosulfan II	< 3.17	ug/Kg		12/26/2019 18:40
Endosulfan Sulfate	< 3.17	ug/Kg		12/26/2019 18:40
Endrin	< 3.17	ug/Kg		12/26/2019 18:40
Endrin Aldehyde	< 3.17	ug/Kg		12/26/2019 18:40
Endrin Ketone	< 3.17	ug/Kg		12/26/2019 18:40
gamma-BHC (Lindane)	**5.36**	ug/Kg		12/26/2019 18:40
Heptachlor	< 3.17	ug/Kg		12/26/2019 18:40
Heptachlor Epoxide	< 3.17	ug/Kg		12/26/2019 18:40
Methoxychlor	**3.29**	ug/Kg	P	12/26/2019 18:40
Toxaphene	< 31.7	ug/Kg		12/26/2019 18:40
trans-Chlordane	< 3.17	ug/Kg		12/26/2019 18:40

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11, 1-4 Ft
Lab Sample ID: 196293-12 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**51.2**	30.7 - 111		12/26/2019 18:40
Tetrachloro-m-xylene (1)	**87.1**	34.7 - 87.3		12/26/2019 18:40

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/23/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11, 1-4 Ft
Lab Sample ID: 196293-12 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 2920	ug/Kg		12/30/2019 19:41
1,2,4,5-Tetrachlorobenzene	< 2920	ug/Kg		12/30/2019 19:41
1,2,4-Trichlorobenzene	< 2920	ug/Kg		12/30/2019 19:41
1,2-Dichlorobenzene	< 2920	ug/Kg		12/30/2019 19:41
1,3-Dichlorobenzene	< 2920	ug/Kg		12/30/2019 19:41
1,4-Dichlorobenzene	< 2920	ug/Kg		12/30/2019 19:41
2,2-Oxybis (1-chloropropane)	< 2920	ug/Kg		12/30/2019 19:41
2,3,4,6-Tetrachlorophenol	< 2920	ug/Kg		12/30/2019 19:41
2,4,5-Trichlorophenol	< 2920	ug/Kg		12/30/2019 19:41
2,4,6-Trichlorophenol	< 2920	ug/Kg		12/30/2019 19:41
2,4-Dichlorophenol	< 2920	ug/Kg		12/30/2019 19:41
2,4-Dimethylphenol	< 2920	ug/Kg		12/30/2019 19:41
2,4-Dinitrophenol	< 11700	ug/Kg		12/30/2019 19:41
2,4-Dinitrotoluene	< 2920	ug/Kg		12/30/2019 19:41
2,6-Dinitrotoluene	< 2920	ug/Kg		12/30/2019 19:41
2-Chloronaphthalene	< 2920	ug/Kg		12/30/2019 19:41
2-Chlorophenol	< 2920	ug/Kg		12/30/2019 19:41
2-Methylnapthalene	< 2920	ug/Kg		12/30/2019 19:41
2-Methylphenol	< 2920	ug/Kg		12/30/2019 19:41
2-Nitroaniline	< 2920	ug/Kg		12/30/2019 19:41
2-Nitrophenol	< 2920	ug/Kg		12/30/2019 19:41
3&4-Methylphenol	< 2920	ug/Kg		12/30/2019 19:41
3,3'-Dichlorobenzidine	< 2920	ug/Kg		12/30/2019 19:41

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ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-11, 1-4 Ft		
Lab Sample ID:	196293-12	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

3-Nitroaniline	< 2920	ug/Kg		12/30/2019	19:41
4,6-Dinitro-2-methylphenol	< 5840	ug/Kg		12/30/2019	19:41
4-Bromophenyl phenyl ether	< 2920	ug/Kg		12/30/2019	19:41
4-Chloro-3-methylphenol	< 2920	ug/Kg		12/30/2019	19:41
4-Chloroaniline	< 2920	ug/Kg		12/30/2019	19:41
4-Chlorophenyl phenyl ether	< 2920	ug/Kg		12/30/2019	19:41
4-Nitroaniline	< 2920	ug/Kg		12/30/2019	19:41
4-Nitrophenol	< 2920	ug/Kg		12/30/2019	19:41
Acenaphthene	**1920**	ug/Kg	J	12/30/2019	19:41
Acenaphthylene	< 2920	ug/Kg		12/30/2019	19:41
Acetophenone	< 2920	ug/Kg		12/30/2019	19:41
Anthracene	**8250**	ug/Kg		12/30/2019	19:41
Atrazine	< 2920	ug/Kg		12/30/2019	19:41
Benzaldehyde	< 2920	ug/Kg		12/30/2019	19:41
Benzo (a) anthracene	**27900**	ug/Kg		12/30/2019	19:41
Benzo (a) pyrene	**23300**	ug/Kg		12/30/2019	19:41
Benzo (b) fluoranthene	**25700**	ug/Kg		12/30/2019	19:41
Benzo (g,h,i) perylene	**13400**	ug/Kg		12/30/2019	19:41
Benzo (k) fluoranthene	**13400**	ug/Kg		12/30/2019	19:41
Bis (2-chloroethoxy) methane	< 2920	ug/Kg		12/30/2019	19:41
Bis (2-chloroethyl) ether	< 2920	ug/Kg		12/30/2019	19:41
Bis (2-ethylhexyl) phthalate	< 2920	ug/Kg		12/30/2019	19:41
Butylbenzylphthalate	< 2920	ug/Kg		12/30/2019	19:41
Caprolactam	< 2920	ug/Kg		12/30/2019	19:41
Carbazole	**4050**	ug/Kg		12/30/2019	19:41

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-11, 1-4 Ft		
Lab Sample ID:	196293-12	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Chrysene	**23300**	ug/Kg		12/30/2019	19:41
Dibenz (a,h) anthracene	**4600**	ug/Kg		12/30/2019	19:41
Dibenzofuran	< 2920	ug/Kg		12/30/2019	19:41
Diethyl phthalate	< 2920	ug/Kg		12/30/2019	19:41
Dimethyl phthalate	< 2920	ug/Kg		12/30/2019	19:41
Di-n-butyl phthalate	< 2920	ug/Kg		12/30/2019	19:41
Di-n-octylphthalate	< 2920	ug/Kg		12/30/2019	19:41
Fluoranthene	**58400**	ug/Kg		12/30/2019	19:41
Fluorene	**2210**	ug/Kg	J	12/30/2019	19:41
Hexachlorobenzene	< 2920	ug/Kg		12/30/2019	19:41
Hexachlorobutadiene	< 2920	ug/Kg		12/30/2019	19:41
Hexachlorocyclopentadiene	< 11700	ug/Kg		12/30/2019	19:41
Hexachloroethane	< 2920	ug/Kg		12/30/2019	19:41
Indeno (1,2,3-cd) pyrene	**16700**	ug/Kg		12/30/2019	19:41
Isophorone	< 2920	ug/Kg		12/30/2019	19:41
Naphthalene	< 2920	ug/Kg		12/30/2019	19:41
Nitrobenzene	< 2920	ug/Kg		12/30/2019	19:41
N-Nitroso-di-n-propylamine	< 2920	ug/Kg		12/30/2019	19:41
N-Nitrosodiphenylamine	< 2920	ug/Kg		12/30/2019	19:41
Pentachlorophenol	< 5840	ug/Kg		12/30/2019	19:41
Phenanthrene	**29600**	ug/Kg		12/30/2019	19:41
Phenol	< 2920	ug/Kg		12/30/2019	19:41
Pyrene	**41500**	ug/Kg		12/30/2019	19:41

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11, 1-4 Ft
Lab Sample ID: 196293-12 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	NC	35.1 - 89.5		12/30/2019 19:41
2-Fluorobiphenyl	NC	37.7 - 81.4		12/30/2019 19:41
2-Fluorophenol	NC	40.2 - 77		12/30/2019 19:41
Nitrobenzene-d5	NC	36.2 - 78.4		12/30/2019 19:41
Phenol-d5	NC	41.2 - 77.1		12/30/2019 19:41
Terphenyl-d14	NC	39.8 - 97.5		12/30/2019 19:41

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/23/2019
Data File: B43417.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11, 1-4 Ft
Lab Sample ID: 196293-12 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.27	ug/Kg		12/31/2019 16:34
1,1,2,2-Tetrachloroethane	< 4.27	ug/Kg		12/31/2019 16:34
1,1,2-Trichloroethane	< 4.27	ug/Kg		12/31/2019 16:34
1,1-Dichloroethane	< 4.27	ug/Kg		12/31/2019 16:34
1,1-Dichloroethene	< 4.27	ug/Kg		12/31/2019 16:34
1,2,3-Trichlorobenzene	< 10.7	ug/Kg		12/31/2019 16:34
1,2,4-Trichlorobenzene	< 10.7	ug/Kg		12/31/2019 16:34
1,2,4-Trimethylbenzene	**3.07**	ug/Kg	J	12/31/2019 16:34
1,2-Dibromo-3-Chloropropane	< 21.4	ug/Kg		12/31/2019 16:34
1,2-Dibromoethane	< 4.27	ug/Kg		12/31/2019 16:34
1,2-Dichlorobenzene	< 4.27	ug/Kg		12/31/2019 16:34
1,2-Dichloroethane	< 4.27	ug/Kg		12/31/2019 16:34
1,2-Dichloropropane	< 4.27	ug/Kg		12/31/2019 16:34
1,3,5-Trimethylbenzene	< 4.27	ug/Kg		12/31/2019 16:34
1,3-Dichlorobenzene	< 4.27	ug/Kg		12/31/2019 16:34
1,4-Dichlorobenzene	< 4.27	ug/Kg		12/31/2019 16:34
1,4-Dioxane	< 42.7	ug/Kg		12/31/2019 16:34
2-Butanone	< 21.4	ug/Kg		12/31/2019 16:34
2-Hexanone	< 10.7	ug/Kg		12/31/2019 16:34
4-Methyl-2-pentanone	< 10.7	ug/Kg		12/31/2019 16:34
Acetone	**15.1**	ug/Kg	J	12/31/2019 16:34
Benzene	< 4.27	ug/Kg		12/31/2019 16:34
Bromochloromethane	< 10.7	ug/Kg		12/31/2019 16:34

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11, 1-4 Ft
Lab Sample ID: 196293-12 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Bromodichloromethane	< 4.27	ug/Kg		12/31/2019	16:34
Bromoform	< 10.7	ug/Kg		12/31/2019	16:34
Bromomethane	< 4.27	ug/Kg		12/31/2019	16:34
Carbon disulfide	**2.32**	ug/Kg	J	12/31/2019	16:34
Carbon Tetrachloride	< 4.27	ug/Kg		12/31/2019	16:34
Chlorobenzene	< 4.27	ug/Kg		12/31/2019	16:34
Chloroethane	< 4.27	ug/Kg		12/31/2019	16:34
Chloroform	< 4.27	ug/Kg		12/31/2019	16:34
Chloromethane	< 4.27	ug/Kg		12/31/2019	16:34
cis-1,2-Dichloroethene	< 4.27	ug/Kg		12/31/2019	16:34
cis-1,3-Dichloropropene	< 4.27	ug/Kg		12/31/2019	16:34
Cyclohexane	< 21.4	ug/Kg		12/31/2019	16:34
Dibromochloromethane	< 4.27	ug/Kg		12/31/2019	16:34
Dichlorodifluoromethane	< 4.27	ug/Kg		12/31/2019	16:34
Ethylbenzene	< 4.27	ug/Kg		12/31/2019	16:34
Freon 113	< 4.27	ug/Kg		12/31/2019	16:34
Isopropylbenzene	< 4.27	ug/Kg		12/31/2019	16:34
m,p-Xylene	**3.18**	ug/Kg	J	12/31/2019	16:34
Methyl acetate	< 4.27	ug/Kg		12/31/2019	16:34
Methyl tert-butyl Ether	< 4.27	ug/Kg		12/31/2019	16:34
Methylcyclohexane	**10.7**	ug/Kg		12/31/2019	16:34
Methylene chloride	< 10.7	ug/Kg		12/31/2019	16:34
Naphthalene	< 10.7	ug/Kg		12/31/2019	16:34
n-Butylbenzene	< 4.27	ug/Kg		12/31/2019	16:34
n-Propylbenzene	< 4.27	ug/Kg		12/31/2019	16:34

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11, 1-4 Ft
Lab Sample ID: 196293-12 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

o-Xylene	< 4.27	ug/Kg	12/31/2019	16:34
p-Isopropyltoluene	< 4.27	ug/Kg	12/31/2019	16:34
sec-Butylbenzene	< 4.27	ug/Kg	12/31/2019	16:34
Styrene	< 10.7	ug/Kg	12/31/2019	16:34
tert-Butylbenzene	< 4.27	ug/Kg	12/31/2019	16:34
Tetrachloroethene	< 4.27	ug/Kg	12/31/2019	16:34
Toluene	< 4.27	ug/Kg	12/31/2019	16:34
trans-1,2-Dichloroethene	**5.39**	ug/Kg	12/31/2019	16:34
trans-1,3-Dichloropropene	< 4.27	ug/Kg	12/31/2019	16:34
Trichloroethene	< 4.27	ug/Kg	12/31/2019	16:34
Trichlorofluoromethane	< 4.27	ug/Kg	12/31/2019	16:34
Vinyl chloride	< 4.27	ug/Kg	12/31/2019	16:34

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**114**	67.9 - 146		12/31/2019	16:34
4-Bromofluorobenzene	**80.6**	64.6 - 127		12/31/2019	16:34
Pentafluorobenzene	**92.0**	85.5 - 113		12/31/2019	16:34
Toluene-D8	**100**	83.9 - 114		12/31/2019	16:34

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x67560.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-11, 1-4 Ft		
Lab Sample ID:	196293-12	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.524	mg/Kg		12/30/2019

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-11, 1-4 Ft		
Lab Sample ID:	196293-12	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**90.0**	%		12/24/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-11, 1-4 Ft		
Lab Sample ID:	196293-12	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 146	ug/Kg		1/2/2020 14:49

Reporting limit elevated due to sample matrix

Method Reference(s): EPA 8270D SIM
EPA 3546

Preparation Date: 12/23/2019

Data File: B43493.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11 Native, 6-8 Ft
Lab Sample ID: 196293-13 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**5.15**	mg/Kg		12/27/2019 15:19
Barium	**132**	mg/Kg		12/27/2019 15:19
Beryllium	**0.972**	mg/Kg		12/27/2019 15:19
Cadmium	**1.60**	mg/Kg		12/27/2019 15:19
Chromium	**26.9**	mg/Kg		12/27/2019 15:19
Copper	**21.6**	mg/Kg		12/27/2019 15:19
Lead	**9.70**	mg/Kg		12/27/2019 15:19
Manganese	**555**	mg/Kg		12/27/2019 15:19
Nickel	**31.5**	mg/Kg		12/27/2019 15:19
Selenium	**0.994**	mg/Kg	J	12/27/2019 15:19
Silver	**0.727**	mg/Kg		12/27/2019 15:19
Zinc	**83.6**	mg/Kg		1/2/2020 09:49

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/26/2019
Data File: 191227C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-11 Native, 6-8 Ft		
Lab Sample ID:	196293-13	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0178**	mg/Kg		12/26/2019 12:14

Method Reference(s): EPA 7471B
Preparation Date: 12/24/2019
Data File: Hg191226B

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-11 Native, 6-8 Ft		
Lab Sample ID:	196293-13	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0277	mg/Kg		12/26/2019 19:47
PCB-1221	< 0.0277	mg/Kg		12/26/2019 19:47
PCB-1232	< 0.0277	mg/Kg		12/26/2019 19:47
PCB-1242	< 0.0277	mg/Kg		12/26/2019 19:47
PCB-1248	< 0.0277	mg/Kg		12/26/2019 19:47
PCB-1254	< 0.0277	mg/Kg		12/26/2019 19:47
PCB-1260	< 0.0277	mg/Kg		12/26/2019 19:47
PCB-1262	< 0.0277	mg/Kg		12/26/2019 19:47
PCB-1268	< 0.0277	mg/Kg		12/26/2019 19:47

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**65.9**	18.3 - 89.6		12/26/2019 19:47

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11 Native, 6-8 Ft
Lab Sample ID: 196293-13 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 2.77	ug/Kg		12/26/2019 18:59
4,4-DDE	< 2.77	ug/Kg		12/26/2019 18:59
4,4-DDT	< 2.77	ug/Kg		12/26/2019 18:59
Aldrin	< 2.77	ug/Kg		12/26/2019 18:59
alpha-BHC	< 2.77	ug/Kg		12/26/2019 18:59
beta-BHC	< 2.77	ug/Kg		12/26/2019 18:59
cis-Chlordane	< 2.77	ug/Kg		12/26/2019 18:59
delta-BHC	< 2.77	ug/Kg		12/26/2019 18:59
Dieldrin	< 2.77	ug/Kg		12/26/2019 18:59
Endosulfan I	< 2.77	ug/Kg		12/26/2019 18:59
Endosulfan II	< 2.77	ug/Kg		12/26/2019 18:59
Endosulfan Sulfate	< 2.77	ug/Kg		12/26/2019 18:59
Endrin	< 2.77	ug/Kg		12/26/2019 18:59
Endrin Aldehyde	< 2.77	ug/Kg		12/26/2019 18:59
Endrin Ketone	< 2.77	ug/Kg		12/26/2019 18:59
gamma-BHC (Lindane)	< 2.77	ug/Kg		12/26/2019 18:59
Heptachlor	< 2.77	ug/Kg		12/26/2019 18:59
Heptachlor Epoxide	< 2.77	ug/Kg		12/26/2019 18:59
Methoxychlor	< 2.77	ug/Kg		12/26/2019 18:59
Toxaphene	< 27.7	ug/Kg		12/26/2019 18:59
trans-Chlordane	< 2.77	ug/Kg		12/26/2019 18:59

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ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11 Native, 6-8 Ft
Lab Sample ID: 196293-13 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**28.8**	30.7 - 111	*	12/26/2019 18:59
Tetrachloro-m-xylene (1)	**66.1**	34.7 - 87.3		12/26/2019 18:59

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/23/2019

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11 Native, 6-8 Ft
Lab Sample ID: 196293-13 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 337	ug/Kg		12/25/2019 05:50
1,2,4,5-Tetrachlorobenzene	< 337	ug/Kg		12/25/2019 05:50
1,2,4-Trichlorobenzene	< 337	ug/Kg		12/25/2019 05:50
1,2-Dichlorobenzene	< 337	ug/Kg		12/25/2019 05:50
1,3-Dichlorobenzene	< 337	ug/Kg		12/25/2019 05:50
1,4-Dichlorobenzene	< 337	ug/Kg		12/25/2019 05:50
2,2-Oxybis (1-chloropropane)	< 337	ug/Kg		12/25/2019 05:50
2,3,4,6-Tetrachlorophenol	< 337	ug/Kg		12/25/2019 05:50
2,4,5-Trichlorophenol	< 337	ug/Kg		12/25/2019 05:50
2,4,6-Trichlorophenol	< 337	ug/Kg		12/25/2019 05:50
2,4-Dichlorophenol	< 337	ug/Kg		12/25/2019 05:50
2,4-Dimethylphenol	< 337	ug/Kg		12/25/2019 05:50
2,4-Dinitrophenol	< 1350	ug/Kg		12/25/2019 05:50
2,4-Dinitrotoluene	< 337	ug/Kg		12/25/2019 05:50
2,6-Dinitrotoluene	< 337	ug/Kg		12/25/2019 05:50
2-Chloronaphthalene	< 337	ug/Kg		12/25/2019 05:50
2-Chlorophenol	< 337	ug/Kg		12/25/2019 05:50
2-Methylnapthalene	< 337	ug/Kg		12/25/2019 05:50
2-Methylphenol	< 337	ug/Kg		12/25/2019 05:50
2-Nitroaniline	< 337	ug/Kg		12/25/2019 05:50
2-Nitrophenol	< 337	ug/Kg		12/25/2019 05:50
3&4-Methylphenol	< 337	ug/Kg		12/25/2019 05:50
3,3'-Dichlorobenzidine	< 337	ug/Kg		12/25/2019 05:50

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-11 Native, 6-8 Ft		
Lab Sample ID:	196293-13	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

3-Nitroaniline	< 337	ug/Kg		12/25/2019	05:50
4,6-Dinitro-2-methylphenol	< 675	ug/Kg		12/25/2019	05:50
4-Bromophenyl phenyl ether	< 337	ug/Kg		12/25/2019	05:50
4-Chloro-3-methylphenol	< 337	ug/Kg		12/25/2019	05:50
4-Chloroaniline	< 337	ug/Kg		12/25/2019	05:50
4-Chlorophenyl phenyl ether	< 337	ug/Kg		12/25/2019	05:50
4-Nitroaniline	< 337	ug/Kg		12/25/2019	05:50
4-Nitrophenol	< 337	ug/Kg		12/25/2019	05:50
Acenaphthene	< 337	ug/Kg		12/25/2019	05:50
Acenaphthylene	< 337	ug/Kg		12/25/2019	05:50
Acetophenone	< 337	ug/Kg		12/25/2019	05:50
Anthracene	**718**	ug/Kg		12/25/2019	05:50
Atrazine	< 337	ug/Kg		12/25/2019	05:50
Benzaldehyde	< 337	ug/Kg		12/25/2019	05:50
Benzo (a) anthracene	**3340**	ug/Kg		12/25/2019	05:50
Benzo (a) pyrene	**2840**	ug/Kg		12/25/2019	05:50
Benzo (b) fluoranthene	**2940**	ug/Kg		12/25/2019	05:50
Benzo (g,h,i) perylene	**1980**	ug/Kg		12/25/2019	05:50
Benzo (k) fluoranthene	**1830**	ug/Kg		12/25/2019	05:50
Bis (2-chloroethoxy) methane	< 337	ug/Kg		12/25/2019	05:50
Bis (2-chloroethyl) ether	< 337	ug/Kg		12/25/2019	05:50
Bis (2-ethylhexyl) phthalate	**483**	ug/Kg		12/25/2019	05:50
Butylbenzylphthalate	< 337	ug/Kg		12/25/2019	05:50
Caprolactam	< 337	ug/Kg		12/25/2019	05:50
Carbazole	**215**	ug/Kg	J	12/25/2019	05:50

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11 Native, 6-8 Ft
Lab Sample ID: 196293-13 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Chrysene	**2700**	ug/Kg	12/25/2019	05:50
Dibenz (a,h) anthracene	**609**	ug/Kg	12/25/2019	05:50
Dibenzofuran	< 337	ug/Kg	12/25/2019	05:50
Diethyl phthalate	< 337	ug/Kg	12/25/2019	05:50
Dimethyl phthalate	< 337	ug/Kg	12/25/2019	05:50
Di-n-butyl phthalate	< 337	ug/Kg	12/25/2019	05:50
Di-n-octylphthalate	< 337	ug/Kg	12/25/2019	05:50
Fluoranthene	**7170**	ug/Kg	12/25/2019	05:50
Fluorene	< 337	ug/Kg	12/25/2019	05:50
Hexachlorobenzene	< 337	ug/Kg	12/25/2019	05:50
Hexachlorobutadiene	< 337	ug/Kg	12/25/2019	05:50
Hexachlorocyclopentadiene	< 1350	ug/Kg	12/25/2019	05:50
Hexachloroethane	< 337	ug/Kg	12/25/2019	05:50
Indeno (1,2,3-cd) pyrene	**2640**	ug/Kg	12/25/2019	05:50
Isophorone	< 337	ug/Kg	12/25/2019	05:50
Naphthalene	< 337	ug/Kg	12/25/2019	05:50
Nitrobenzene	< 337	ug/Kg	12/25/2019	05:50
N-Nitroso-di-n-propylamine	< 337	ug/Kg	12/25/2019	05:50
N-Nitrosodiphenylamine	< 337	ug/Kg	12/25/2019	05:50
Pentachlorophenol	< 675	ug/Kg	12/25/2019	05:50
Phenanthrene	**3240**	ug/Kg	12/25/2019	05:50
Phenol	< 337	ug/Kg	12/25/2019	05:50
Pyrene	**4810**	ug/Kg	12/25/2019	05:50

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11 Native, 6-8 Ft
Lab Sample ID: 196293-13 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**68.7**	35.1 - 89.5		12/25/2019 05:50
2-Fluorobiphenyl	**68.0**	37.7 - 81.4		12/25/2019 05:50
2-Fluorophenol	**67.0**	40.2 - 77		12/25/2019 05:50
Nitrobenzene-d5	**63.0**	36.2 - 78.4		12/25/2019 05:50
Phenol-d5	**63.6**	41.2 - 77.1		12/25/2019 05:50
Terphenyl-d14	**66.2**	39.8 - 97.5		12/25/2019 05:50

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/23/2019
Data File: B43337.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11 Native, 6-8 Ft
Lab Sample ID: 196293-13 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.85	ug/Kg		12/31/2019 16:57
1,1,2,2-Tetrachloroethane	< 4.85	ug/Kg		12/31/2019 16:57
1,1,2-Trichloroethane	< 4.85	ug/Kg		12/31/2019 16:57
1,1-Dichloroethane	< 4.85	ug/Kg		12/31/2019 16:57
1,1-Dichloroethene	< 4.85	ug/Kg		12/31/2019 16:57
1,2,3-Trichlorobenzene	< 12.1	ug/Kg		12/31/2019 16:57
1,2,4-Trichlorobenzene	< 12.1	ug/Kg		12/31/2019 16:57
1,2,4-Trimethylbenzene	< 4.85	ug/Kg		12/31/2019 16:57
1,2-Dibromo-3-Chloropropane	< 24.3	ug/Kg		12/31/2019 16:57
1,2-Dibromoethane	< 4.85	ug/Kg		12/31/2019 16:57
1,2-Dichlorobenzene	< 4.85	ug/Kg		12/31/2019 16:57
1,2-Dichloroethane	< 4.85	ug/Kg		12/31/2019 16:57
1,2-Dichloropropane	< 4.85	ug/Kg		12/31/2019 16:57
1,3,5-Trimethylbenzene	< 4.85	ug/Kg		12/31/2019 16:57
1,3-Dichlorobenzene	< 4.85	ug/Kg		12/31/2019 16:57
1,4-Dichlorobenzene	< 4.85	ug/Kg		12/31/2019 16:57
1,4-Dioxane	< 48.5	ug/Kg		12/31/2019 16:57
2-Butanone	< 24.3	ug/Kg		12/31/2019 16:57
2-Hexanone	< 12.1	ug/Kg		12/31/2019 16:57
4-Methyl-2-pentanone	< 12.1	ug/Kg		12/31/2019 16:57
Acetone	< 24.3	ug/Kg		12/31/2019 16:57
Benzene	< 4.85	ug/Kg		12/31/2019 16:57
Bromochloromethane	< 12.1	ug/Kg		12/31/2019 16:57

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11 Native, 6-8 Ft
Lab Sample ID: 196293-13 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Bromodichloromethane	< 4.85	ug/Kg	12/31/2019	16:57
Bromoform	< 12.1	ug/Kg	12/31/2019	16:57
Bromomethane	< 4.85	ug/Kg	12/31/2019	16:57
Carbon disulfide	< 4.85	ug/Kg	12/31/2019	16:57
Carbon Tetrachloride	< 4.85	ug/Kg	12/31/2019	16:57
Chlorobenzene	< 4.85	ug/Kg	12/31/2019	16:57
Chloroethane	< 4.85	ug/Kg	12/31/2019	16:57
Chloroform	< 4.85	ug/Kg	12/31/2019	16:57
Chloromethane	< 4.85	ug/Kg	12/31/2019	16:57
cis-1,2-Dichloroethene	< 4.85	ug/Kg	12/31/2019	16:57
cis-1,3-Dichloropropene	< 4.85	ug/Kg	12/31/2019	16:57
Cyclohexane	< 24.3	ug/Kg	12/31/2019	16:57
Dibromochloromethane	< 4.85	ug/Kg	12/31/2019	16:57
Dichlorodifluoromethane	< 4.85	ug/Kg	12/31/2019	16:57
Ethylbenzene	< 4.85	ug/Kg	12/31/2019	16:57
Freon 113	< 4.85	ug/Kg	12/31/2019	16:57
Isopropylbenzene	< 4.85	ug/Kg	12/31/2019	16:57
m,p-Xylene	< 4.85	ug/Kg	12/31/2019	16:57
Methyl acetate	< 4.85	ug/Kg	12/31/2019	16:57
Methyl tert-butyl Ether	< 4.85	ug/Kg	12/31/2019	16:57
Methylcyclohexane	< 4.85	ug/Kg	12/31/2019	16:57
Methylene chloride	< 12.1	ug/Kg	12/31/2019	16:57
Naphthalene	< 12.1	ug/Kg	12/31/2019	16:57
n-Butylbenzene	< 4.85	ug/Kg	12/31/2019	16:57
n-Propylbenzene	< 4.85	ug/Kg	12/31/2019	16:57

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-11 Native, 6-8 Ft
Lab Sample ID: 196293-13 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

o-Xylene	< 4.85	ug/Kg	12/31/2019	16:57
p-Isopropyltoluene	< 4.85	ug/Kg	12/31/2019	16:57
sec-Butylbenzene	< 4.85	ug/Kg	12/31/2019	16:57
Styrene	< 12.1	ug/Kg	12/31/2019	16:57
tert-Butylbenzene	< 4.85	ug/Kg	12/31/2019	16:57
Tetrachloroethene	< 4.85	ug/Kg	12/31/2019	16:57
Toluene	< 4.85	ug/Kg	12/31/2019	16:57
trans-1,2-Dichloroethene	< 4.85	ug/Kg	12/31/2019	16:57
trans-1,3-Dichloropropene	< 4.85	ug/Kg	12/31/2019	16:57
Trichloroethene	< 4.85	ug/Kg	12/31/2019	16:57
Trichlorofluoromethane	< 4.85	ug/Kg	12/31/2019	16:57
Vinyl chloride	< 4.85	ug/Kg	12/31/2019	16:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**120**	67.9 - 146		12/31/2019	16:57
4-Bromofluorobenzene	**76.6**	64.6 - 127		12/31/2019	16:57
Pentafluorobenzene	**93.5**	85.5 - 113		12/31/2019	16:57
Toluene-D8	**88.8**	83.9 - 114		12/31/2019	16:57

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x67561.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-11 Native, 6-8 Ft		
Lab Sample ID:	196293-13	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.581	mg/Kg		12/30/2019

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 12/27/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-11 Native, 6-8 Ft		
Lab Sample ID:	196293-13	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**82.8**	%		12/24/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-11 Native, 6-8 Ft		
Lab Sample ID:	196293-13	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 33.7	ug/Kg		1/2/2020 15:00

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/23/2019
Data File: B43494.D

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-12, 1-2 Ft
Lab Sample ID: 196293-14 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**5.17**	mg/Kg		12/27/2019 15:23
Barium	**130**	mg/Kg		12/27/2019 15:23
Beryllium	**1.61**	mg/Kg		12/27/2019 15:23
Cadmium	**3.01**	mg/Kg		12/27/2019 15:23
Chromium	**63.0**	mg/Kg		12/27/2019 15:23
Copper	**179**	mg/Kg		12/27/2019 15:23
Lead	**863**	mg/Kg		12/27/2019 15:23
Manganese	**8640**	mg/Kg		1/2/2020 09:53
Nickel	**12.0**	mg/Kg		12/27/2019 15:23
Selenium	< 1.06	mg/Kg		12/27/2019 15:23
Silver	**3.22**	mg/Kg		12/27/2019 15:23
Zinc	**4240**	mg/Kg		1/2/2020 09:53

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/26/2019
Data File: 191227C

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-12, 1-2 Ft		
Lab Sample ID:	196293-14	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.239**	mg/Kg	M	12/26/2019 12:16

Method Reference(s): EPA 7471B
Preparation Date: 12/24/2019
Data File: Hg191226B

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-12, 1-2 Ft		
Lab Sample ID:	196293-14	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0281	mg/Kg		12/27/2019 14:49
PCB-1221	< 0.0281	mg/Kg		12/27/2019 14:49
PCB-1232	< 0.0281	mg/Kg		12/27/2019 14:49
PCB-1242	< 0.0281	mg/Kg		12/27/2019 14:49
PCB-1248	< 0.0281	mg/Kg		12/27/2019 14:49
PCB-1254	**0.0486**	mg/Kg		12/27/2019 14:49
PCB-1260	< 0.0281	mg/Kg		12/27/2019 14:49
PCB-1262	< 0.0281	mg/Kg		12/27/2019 14:49
PCB-1268	< 0.0281	mg/Kg		12/27/2019 14:49

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**46.5**	18.3 - 89.6		12/27/2019 14:49

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 12/23/2019

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ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-12, 1-2 Ft
Lab Sample ID: 196293-14 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 2.81	ug/Kg		12/26/2019 19:18
4,4-DDE	**1.50**	ug/Kg	JP	12/26/2019 19:18
4,4-DDT	**7.01**	ug/Kg		12/26/2019 19:18
Aldrin	< 2.81	ug/Kg		12/26/2019 19:18
alpha-BHC	< 2.81	ug/Kg		12/26/2019 19:18
beta-BHC	< 2.81	ug/Kg		12/26/2019 19:18
cis-Chlordane	< 2.81	ug/Kg		12/26/2019 19:18
delta-BHC	< 2.81	ug/Kg		12/26/2019 19:18
Dieldrin	< 2.81	ug/Kg		12/26/2019 19:18
Endosulfan I	**1.60**	ug/Kg	JP	12/26/2019 19:18
Endosulfan II	**2.61**	ug/Kg	JP	12/26/2019 19:18
Endosulfan Sulfate	< 2.81	ug/Kg		12/26/2019 19:18
Endrin	< 2.81	ug/Kg		12/26/2019 19:18
Endrin Aldehyde	< 2.81	ug/Kg		12/26/2019 19:18
Endrin Ketone	**3.12**	ug/Kg	P	12/26/2019 19:18
gamma-BHC (Lindane)	< 2.81	ug/Kg		12/26/2019 19:18
Heptachlor	< 2.81	ug/Kg		12/26/2019 19:18
Heptachlor Epoxide	< 2.81	ug/Kg		12/26/2019 19:18
Methoxychlor	**5.73**	ug/Kg		12/26/2019 19:18
Toxaphene	< 28.1	ug/Kg		12/26/2019 19:18
trans-Chlordane	**1.88**	ug/Kg	JP	12/26/2019 19:18

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ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-12, 1-2 Ft
Lab Sample ID: 196293-14 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**27.2**	30.7 - 111	*	12/26/2019 19:18
Tetrachloro-m-xylene (1)	**42.4**	34.7 - 87.3		12/26/2019 19:18

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 12/23/2019

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-12, 1-2 Ft
Lab Sample ID: 196293-14 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 283	ug/Kg		12/25/2019 06:19
1,2,4,5-Tetrachlorobenzene	< 283	ug/Kg		12/25/2019 06:19
1,2,4-Trichlorobenzene	< 283	ug/Kg		12/25/2019 06:19
1,2-Dichlorobenzene	< 283	ug/Kg		12/25/2019 06:19
1,3-Dichlorobenzene	< 283	ug/Kg		12/25/2019 06:19
1,4-Dichlorobenzene	< 283	ug/Kg		12/25/2019 06:19
2,2-Oxybis (1-chloropropane)	< 283	ug/Kg		12/25/2019 06:19
2,3,4,6-Tetrachlorophenol	< 283	ug/Kg		12/25/2019 06:19
2,4,5-Trichlorophenol	< 283	ug/Kg		12/25/2019 06:19
2,4,6-Trichlorophenol	< 283	ug/Kg		12/25/2019 06:19
2,4-Dichlorophenol	< 283	ug/Kg		12/25/2019 06:19
2,4-Dimethylphenol	< 283	ug/Kg		12/25/2019 06:19
2,4-Dinitrophenol	< 1130	ug/Kg		12/25/2019 06:19
2,4-Dinitrotoluene	< 283	ug/Kg		12/25/2019 06:19
2,6-Dinitrotoluene	< 283	ug/Kg		12/25/2019 06:19
2-Chloronaphthalene	< 283	ug/Kg		12/25/2019 06:19
2-Chlorophenol	< 283	ug/Kg		12/25/2019 06:19
2-Methylnapthalene	< 283	ug/Kg		12/25/2019 06:19
2-Methylphenol	< 283	ug/Kg		12/25/2019 06:19
2-Nitroaniline	< 283	ug/Kg		12/25/2019 06:19
2-Nitrophenol	< 283	ug/Kg		12/25/2019 06:19
3&4-Methylphenol	< 283	ug/Kg		12/25/2019 06:19
3,3'-Dichlorobenzidine	< 283	ug/Kg		12/25/2019 06:19

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-12, 1-2 Ft		
Lab Sample ID:	196293-14	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

3-Nitroaniline	< 283	ug/Kg		12/25/2019	06:19
4,6-Dinitro-2-methylphenol	< 567	ug/Kg		12/25/2019	06:19
4-Bromophenyl phenyl ether	< 283	ug/Kg		12/25/2019	06:19
4-Chloro-3-methylphenol	< 283	ug/Kg		12/25/2019	06:19
4-Chloroaniline	< 283	ug/Kg		12/25/2019	06:19
4-Chlorophenyl phenyl ether	< 283	ug/Kg		12/25/2019	06:19
4-Nitroaniline	< 283	ug/Kg		12/25/2019	06:19
4-Nitrophenol	< 283	ug/Kg		12/25/2019	06:19
Acenaphthene	< 283	ug/Kg		12/25/2019	06:19
Acenaphthylene	< 283	ug/Kg		12/25/2019	06:19
Acetophenone	< 283	ug/Kg		12/25/2019	06:19
Anthracene	**550**	ug/Kg		12/25/2019	06:19
Atrazine	< 283	ug/Kg		12/25/2019	06:19
Benzaldehyde	< 283	ug/Kg		12/25/2019	06:19
Benzo (a) anthracene	**2670**	ug/Kg		12/25/2019	06:19
Benzo (a) pyrene	**2420**	ug/Kg		12/25/2019	06:19
Benzo (b) fluoranthene	**2590**	ug/Kg		12/25/2019	06:19
Benzo (g,h,i) perylene	**1610**	ug/Kg		12/25/2019	06:19
Benzo (k) fluoranthene	**1480**	ug/Kg		12/25/2019	06:19
Bis (2-chloroethoxy) methane	< 283	ug/Kg		12/25/2019	06:19
Bis (2-chloroethyl) ether	< 283	ug/Kg		12/25/2019	06:19
Bis (2-ethylhexyl) phthalate	**378**	ug/Kg		12/25/2019	06:19
Butylbenzylphthalate	< 283	ug/Kg		12/25/2019	06:19
Caprolactam	< 283	ug/Kg		12/25/2019	06:19
Carbazole	**188**	ug/Kg	J	12/25/2019	06:19

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-12, 1-2 Ft
Lab Sample ID: 196293-14 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Chrysene	**2220**	ug/Kg	12/25/2019	06:19
Dibenz (a,h) anthracene	**428**	ug/Kg	12/25/2019	06:19
Dibenzofuran	< 283	ug/Kg	12/25/2019	06:19
Diethyl phthalate	< 283	ug/Kg	12/25/2019	06:19
Dimethyl phthalate	< 283	ug/Kg	12/25/2019	06:19
Di-n-butyl phthalate	< 283	ug/Kg	12/25/2019	06:19
Di-n-octylphthalate	< 283	ug/Kg	12/25/2019	06:19
Fluoranthene	**5560**	ug/Kg	12/25/2019	06:19
Fluorene	< 283	ug/Kg	12/25/2019	06:19
Hexachlorobenzene	< 283	ug/Kg	12/25/2019	06:19
Hexachlorobutadiene	< 283	ug/Kg	12/25/2019	06:19
Hexachlorocyclopentadiene	< 1130	ug/Kg	12/25/2019	06:19
Hexachloroethane	< 283	ug/Kg	12/25/2019	06:19
Indeno (1,2,3-cd) pyrene	**2140**	ug/Kg	12/25/2019	06:19
Isophorone	< 283	ug/Kg	12/25/2019	06:19
Naphthalene	< 283	ug/Kg	12/25/2019	06:19
Nitrobenzene	< 283	ug/Kg	12/25/2019	06:19
N-Nitroso-di-n-propylamine	< 283	ug/Kg	12/25/2019	06:19
N-Nitrosodiphenylamine	< 283	ug/Kg	12/25/2019	06:19
Pentachlorophenol	< 567	ug/Kg	12/25/2019	06:19
Phenanthrene	**2390**	ug/Kg	12/25/2019	06:19
Phenol	< 283	ug/Kg	12/25/2019	06:19
Pyrene	**3750**	ug/Kg	12/25/2019	06:19

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-12, 1-2 Ft
Lab Sample ID: 196293-14 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**62.9**	35.1 - 89.5		12/25/2019 06:19
2-Fluorobiphenyl	**63.8**	37.7 - 81.4		12/25/2019 06:19
2-Fluorophenol	**63.1**	40.2 - 77		12/25/2019 06:19
Nitrobenzene-d5	**57.2**	36.2 - 78.4		12/25/2019 06:19
Phenol-d5	**58.8**	41.2 - 77.1		12/25/2019 06:19
Terphenyl-d14	**61.2**	39.8 - 97.5		12/25/2019 06:19

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/23/2019
Data File: B43338.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-12, 1-2 Ft
Lab Sample ID: 196293-14 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 92.6	ug/Kg		12/31/2019 15:26
1,1,2,2-Tetrachloroethane	< 92.6	ug/Kg		12/31/2019 15:26
1,1,2-Trichloroethane	< 92.6	ug/Kg		12/31/2019 15:26
1,1-Dichloroethane	< 92.6	ug/Kg		12/31/2019 15:26
1,1-Dichloroethene	< 92.6	ug/Kg		12/31/2019 15:26
1,2,3-Trichlorobenzene	< 231	ug/Kg		12/31/2019 15:26
1,2,4-Trichlorobenzene	< 231	ug/Kg		12/31/2019 15:26
1,2,4-Trimethylbenzene	**125**	ug/Kg		12/31/2019 15:26
1,2-Dibromo-3-Chloropropane	< 463	ug/Kg		12/31/2019 15:26
1,2-Dibromoethane	< 92.6	ug/Kg		12/31/2019 15:26
1,2-Dichlorobenzene	< 92.6	ug/Kg		12/31/2019 15:26
1,2-Dichloroethane	< 92.6	ug/Kg		12/31/2019 15:26
1,2-Dichloropropane	< 92.6	ug/Kg		12/31/2019 15:26
1,3,5-Trimethylbenzene	< 92.6	ug/Kg		12/31/2019 15:26
1,3-Dichlorobenzene	< 92.6	ug/Kg		12/31/2019 15:26
1,4-Dichlorobenzene	< 92.6	ug/Kg		12/31/2019 15:26
1,4-Dioxane	< 926	ug/Kg		12/31/2019 15:26
2-Butanone	< 463	ug/Kg		12/31/2019 15:26
2-Hexanone	< 231	ug/Kg		12/31/2019 15:26
4-Methyl-2-pentanone	< 231	ug/Kg		12/31/2019 15:26
Acetone	< 463	ug/Kg		12/31/2019 15:26
Benzene	< 92.6	ug/Kg		12/31/2019 15:26
Bromochloromethane	< 231	ug/Kg		12/31/2019 15:26

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-12, 1-2 Ft
Lab Sample ID: 196293-14 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

Bromodichloromethane	< 92.6	ug/Kg	12/31/2019	15:26
Bromoform	< 231	ug/Kg	12/31/2019	15:26
Bromomethane	< 92.6	ug/Kg	12/31/2019	15:26
Carbon disulfide	< 92.6	ug/Kg	12/31/2019	15:26
Carbon Tetrachloride	< 92.6	ug/Kg	12/31/2019	15:26
Chlorobenzene	< 92.6	ug/Kg	12/31/2019	15:26
Chloroethane	< 92.6	ug/Kg	12/31/2019	15:26
Chloroform	< 92.6	ug/Kg	12/31/2019	15:26
Chloromethane	< 92.6	ug/Kg	12/31/2019	15:26
cis-1,2-Dichloroethene	< 92.6	ug/Kg	12/31/2019	15:26
cis-1,3-Dichloropropene	< 92.6	ug/Kg	12/31/2019	15:26
Cyclohexane	< 463	ug/Kg	12/31/2019	15:26
Dibromochloromethane	< 92.6	ug/Kg	12/31/2019	15:26
Dichlorodifluoromethane	< 92.6	ug/Kg	12/31/2019	15:26
Ethylbenzene	**582**	ug/Kg	12/31/2019	15:26
Freon 113	< 92.6	ug/Kg	12/31/2019	15:26
Isopropylbenzene	**428**	ug/Kg	12/31/2019	15:26
m,p-Xylene	**112**	ug/Kg	12/31/2019	15:26
Methyl acetate	< 92.6	ug/Kg	12/31/2019	15:26
Methyl tert-butyl Ether	< 92.6	ug/Kg	12/31/2019	15:26
Methylcyclohexane	**405**	ug/Kg	12/31/2019	15:26
Methylene chloride	< 231	ug/Kg	12/31/2019	15:26
Naphthalene	< 231	ug/Kg	12/31/2019	15:26
n-Butylbenzene	**281**	ug/Kg	12/31/2019	15:26
n-Propylbenzene	**270**	ug/Kg	12/31/2019	15:26

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: BH-12, 1-2 Ft
Lab Sample ID: 196293-14 **Date Sampled:** 12/19/2019
Matrix: Soil **Date Received:** 12/20/2019

o-Xylene	< 92.6	ug/Kg	12/31/2019	15:26
p-Isopropyltoluene	**108**	ug/Kg	12/31/2019	15:26
sec-Butylbenzene	**553**	ug/Kg	12/31/2019	15:26
Styrene	< 231	ug/Kg	12/31/2019	15:26
tert-Butylbenzene	< 92.6	ug/Kg	12/31/2019	15:26
Tetrachloroethene	< 92.6	ug/Kg	12/31/2019	15:26
Toluene	< 92.6	ug/Kg	12/31/2019	15:26
trans-1,2-Dichloroethene	< 92.6	ug/Kg	12/31/2019	15:26
trans-1,3-Dichloropropene	< 92.6	ug/Kg	12/31/2019	15:26
Trichloroethene	< 92.6	ug/Kg	12/31/2019	15:26
Trichlorofluoromethane	< 92.6	ug/Kg	12/31/2019	15:26
Vinyl chloride	< 92.6	ug/Kg	12/31/2019	15:26

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**110**	67.9 - 146		12/31/2019	15:26
4-Bromofluorobenzene	**93.1**	64.6 - 127		12/31/2019	15:26
Pentafluorobenzene	**91.6**	85.5 - 113		12/31/2019	15:26
Toluene-D8	**128**	83.9 - 114	*	12/31/2019	15:26

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x67557.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-12, 1-2 Ft		
Lab Sample ID:	196293-14	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**10.3**	mg/Kg		12/30/2019

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 12/27/2019

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-12, 1-2 Ft		
Lab Sample ID:	196293-14	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**87.8**	%		12/24/2019

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Monday, February 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196293

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	BH-12, 1-2 Ft		
Lab Sample ID:	196293-14	**Date Sampled:**	12/19/2019
Matrix:	Soil	**Date Received:**	12/20/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 28.3	ug/Kg		1/2/2020 15:11

Method Reference(s): EPA 8270D SIM
EPA 3546
Preparation Date: 12/23/2019
Data File: B43495.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, February 3, 2020

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

ANALYTICAL REPORT

Lab Number:	L1961123
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Jane Daloia
Phone:	(585) 647-2530
Project Name:	57 TONAWANDA
Project Number:	57 TONAWANDA
Report Date:	01/22/20

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1961123
Report Date: 01/22/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1961123-01	BH-10	SOIL	Not Specified	12/18/19 00:00	12/20/19
L1961123-02	BH-03	SOIL	Not Specified	12/18/19 00:00	12/20/19
L1961123-03	BH-02	SOIL	Not Specified	12/18/19 00:00	12/20/19
L1961123-04	BH-13	SOIL	Not Specified	12/18/19 00:00	12/20/19
L1961123-05	BH-05	SOIL	Not Specified	12/18/19 00:00	12/20/19
L1961123-06	BH-06	SOIL	Not Specified	12/18/19 00:00	12/20/19
L1961123-07	SS-01	SOIL	Not Specified	12/18/19 13:50	12/20/19
L1961123-08	SS-02	SOIL	Not Specified	12/18/19 14:14	12/20/19
L1961123-09	SS-03	SOIL	Not Specified	12/18/19 14:36	12/20/19
L1961123-10	SS-04	SOIL	Not Specified	12/19/19 10:00	12/20/19
L1961123-11	SS-05	SOIL	Not Specified	12/19/19 11:10	12/20/19
L1961123-12	BH-4 1-4'	SOIL	Not Specified	12/19/19 00:00	12/20/19
L1961123-13	BH-11 NATIVE	SOIL	Not Specified	12/19/19 00:00	12/20/19
L1961123-14	BH-12	SOIL	Not Specified	12/19/19 00:00	12/20/19

Project Name:	57 TONAWANDA	**Lab Number:**	L1961123
Project Number:	57 TONAWANDA	**Report Date:**	01/22/20

Case Narrative

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

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

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

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

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

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

Project Name:	57 TONAWANDA	**Lab Number:**	L1961123
Project Number:	57 TONAWANDA	**Report Date:**	01/22/20

Case Narrative (continued)

Report Submission

January 22, 2020: This final report includes the results of all requested analyses.

December 30, 2019: This is a preliminary report.

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

Sample Receipt

L1961123-07 through -10: The collection times were obtained from the container labels.

L1961123-11: The collection date and time on the chain of custody was 18-DEC-19 00:00; however, the collection date and time on the container label was 19-DEC-19 11:10. At the client's request, the collection date and time is reported as 19-DEC-19 11:10.

L1961123-12, -13, and -14: The collection date was changed at the client's request.

Perfluorinated Alkyl Acids by Isotope Dilution

L1961123-02: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

The WG1326024-2/3 LCS/LCSD RPD, associated with L1961123-01 through -14, are above the acceptance criteria for perfluorooctanesulfonamide (fosa) (64%).

The WG1326024-3 LCSD recovery, associated with L1961123-01 through -14, is below the acceptance criteria for perfluorooctanesulfonamide (fosa) (55%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG1326024-4 MS recovery, performed on L1961123-01, is outside the acceptance criteria for 1h,1h,2h,2h-perfluorodecanesulfonic acid (8:2fts) (143%).

WG1326024-5: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

Project Name:	57 TONAWANDA	**Lab Number:**	L1961123
Project Number:	57 TONAWANDA	**Report Date:**	01/22/20

Case Narrative (continued)

Hexavalent Chromium

The WG1323927-5 Soluble MS recovery (47%), performed on L1961123-04, was outside the acceptance criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 96%.

The WG1323930-5 Soluble MS recovery (67%), performed on L1961123-11, was outside the acceptance criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 98%.

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

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 01/22/20

ORGANICS

SEMIVOLATILES

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-01
Client ID: BH-10
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/22/20 06:19
Analyst: JW
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 12/31/19 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.00	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.00	0.046	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.00	0.039	1
Perfluorohexanoic Acid (PFHxA)	0.062	J	ug/kg	1.00	0.053	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.00	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.00	0.061	1
Perfluorooctanoic Acid (PFOA)	0.125	J	ug/kg	1.00	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.00	0.180	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.00	0.137	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.00	0.075	1
Perfluorooctanesulfonic Acid (PFOS)	0.512	J	ug/kg	1.00	0.130	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.00	0.067	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.00	0.288	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.00	0.202	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.00	0.047	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.00	0.153	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.00	0.098	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.00	0.085	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.00	0.070	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.00	0.205	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.00	0.054	1
PFOA/PFOS, Total	0.637	J	ug/kg	1.00	0.042	1

Project Name: 57 TONAWANDA **Lab Number:** L1961123

Project Number: 57 TONAWANDA **Report Date:** 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-01 Date Collected: 12/18/19 00:00

Client ID: BH-10 Date Received: 12/20/19

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	85		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	96		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	61		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	37		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72		26-160

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-02
Client ID: BH-03
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/22/20 06:52
Analyst: JW
Percent Solids: 91%

Extraction Method: ALPHA 23528
Extraction Date: 12/31/19 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.01	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.01	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.01	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.01	0.053	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.01	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.01	0.061	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.01	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.01	0.182	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.01	0.138	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.01	0.076	1
Perfluorooctanesulfonic Acid (PFOS)	0.310	J	ug/kg	1.01	0.132	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.01	0.068	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.01	0.290	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.01	0.204	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.01	0.047	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.01	0.155	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.01	0.099	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.136	J	ug/kg	1.01	0.086	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.01	0.071	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.01	0.207	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.01	0.055	1
PFOA/PFOS, Total	0.310	J	ug/kg	1.01	0.042	1

Project Name: 57 TONAWANDA
Lab Number: L1961123
Project Number: 57 TONAWANDA
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-02
Client ID: BH-03
Sample Location: Not Specified
Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	72		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	74		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	82		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	68		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	70		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	72		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	78		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	73		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	74		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	86		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**39**	Q	45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	80		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	2		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**37**	Q	42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	68		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	49		26-160

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-03
Client ID: BH-02
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/22/20 07:25
Analyst: JW
Percent Solids: 81%

Extraction Method: ALPHA 23528
Extraction Date: 12/31/19 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.14	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.14	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.14	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.14	0.060	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.14	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.14	0.069	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.14	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.14	0.204	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.14	0.155	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.14	0.085	1
Perfluorooctanesulfonic Acid (PFOS)	0.242	J	ug/kg	1.14	0.148	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.14	0.076	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.14	0.326	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.14	0.229	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.14	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.14	0.174	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.14	0.111	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.14	0.096	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.14	0.079	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.14	0.232	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.14	0.061	1
PFOA/PFOS, Total	0.242	J	ug/kg	1.14	0.048	1

Project Name: 57 TONAWANDA
Lab Number: L1961123
Project Number: 57 TONAWANDA
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-03
Client ID: BH-02
Sample Location: Not Specified
Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	89		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	93		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	91		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	117		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	48		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	12		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	54		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	53		26-160

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-04
Client ID: BH-13
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/22/20 07:42
Analyst: JW
Percent Solids: 97%

Extraction Method: ALPHA 23528
Extraction Date: 12/31/19 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.914	0.021	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.914	0.042	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.914	0.036	1
Perfluorohexanoic Acid (PFHxA)	0.049	J	ug/kg	0.914	0.048	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.914	0.041	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.914	0.055	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.914	0.038	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.914	0.164	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.914	0.125	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.914	0.069	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	0.914	0.119	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.914	0.061	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.914	0.262	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.914	0.184	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.914	0.043	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.914	0.140	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.914	0.090	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.914	0.077	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.914	0.064	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.914	0.187	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.914	0.049	1
PFOA/PFOS, Total	ND		ug/kg	0.914	0.038	1

Project Name: 57 TONAWANDA **Lab Number:** L1961123

Project Number: 57 TONAWANDA **Report Date:** 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-04 Date Collected: 12/18/19 00:00

Client ID: BH-13 Date Received: 12/20/19

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	100		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	123		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	62		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	105		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	42		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	81		26-160

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-05
Client ID: BH-05
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/22/20 07:58
Analyst: JW
Percent Solids: 87%

Extraction Method: ALPHA 23528
Extraction Date: 12/31/19 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.026	J	ug/kg	1.09	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.09	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.09	0.042	1
Perfluorohexanoic Acid (PFHxA)	0.074	J	ug/kg	1.09	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.09	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.09	0.066	1
Perfluorooctanoic Acid (PFOA)	0.090	J	ug/kg	1.09	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.09	0.195	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.09	0.148	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.09	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	1.08	J	ug/kg	1.09	0.141	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.09	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.09	0.312	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.09	0.219	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.09	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.09	0.166	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.09	0.106	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.09	0.092	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.09	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.09	0.222	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.09	0.059	1
PFOA/PFOS, Total	1.17	J	ug/kg	1.09	0.046	1

Project Name: 57 TONAWANDA
Lab Number: L1961123
Project Number: 57 TONAWANDA
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-05
Client ID: BH-05
Sample Location: Not Specified
Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	89		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	119		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	110		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	59		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	26		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	67		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	82		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72		26-160

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-06
Client ID: BH-06
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/22/20 08:15
Analyst: JW
Percent Solids: 93%

Extraction Method: ALPHA 23528
Extraction Date: 12/31/19 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.042	J	ug/kg	0.961	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.961	0.044	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.961	0.038	1
Perfluorohexanoic Acid (PFHxA)	0.063	J	ug/kg	0.961	0.051	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.961	0.043	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.961	0.058	1
Perfluorooctanoic Acid (PFOA)	0.084	J	ug/kg	0.961	0.040	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.961	0.172	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.961	0.131	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.961	0.072	1
Perfluorooctanesulfonic Acid (PFOS)	0.656	J	ug/kg	0.961	0.125	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.961	0.064	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.961	0.276	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.961	0.194	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.961	0.045	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.961	0.147	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.961	0.094	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.961	0.081	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.961	0.067	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.961	0.196	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.961	0.052	1
PFOA/PFOS, Total	0.740	J	ug/kg	0.961	0.040	1

Project Name: 57 TONAWANDA
Lab Number: L1961123
Project Number: 57 TONAWANDA
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-06
Client ID: BH-06
Sample Location: Not Specified
Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	89		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	82		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	85		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	94		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	106		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	58		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	3		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	66		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	73		26-160

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-12
Client ID: BH-4 1-4'
Sample Location: Not Specified

Date Collected: 12/19/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/22/20 10:31
Analyst: JW
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 12/31/19 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.12	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.12	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.12	0.044	1
Perfluorohexanoic Acid (PFHxA)	0.061	J	ug/kg	1.12	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.12	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.12	0.068	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.12	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.12	0.201	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.12	0.152	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.12	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	0.156	J	ug/kg	1.12	0.145	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.12	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.12	0.321	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.12	0.225	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.12	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.12	0.171	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.12	0.110	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.12	0.095	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.12	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.12	0.229	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.12	0.060	1
PFOA/PFOS, Total	0.156	J	ug/kg	1.12	0.047	1

Project Name: 57 TONAWANDA **Lab Number:** L1961123

Project Number: 57 TONAWANDA **Report Date:** 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-12 Date Collected: 12/19/19 00:00

Client ID: BH-4 1-4' Date Received: 12/20/19

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	94		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	103		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	95		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	63		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	106		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	48		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	83		26-160

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-13
Client ID: BH-11 NATIVE
Sample Location: Not Specified

Date Collected: 12/19/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/22/20 10:47
Analyst: JW
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 12/31/19 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.21	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.21	0.056	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.21	0.047	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.21	0.064	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.21	0.055	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.21	0.074	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.21	0.051	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.21	0.218	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.21	0.166	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.21	0.091	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.21	0.158	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.21	0.081	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.21	0.349	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.21	0.245	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.21	0.057	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.21	0.186	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.21	0.119	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.21	0.103	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.21	0.085	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.21	0.248	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.21	0.066	1
PFOA/PFOS, Total	ND		ug/kg	1.21	0.051	1

Project Name: 57 TONAWANDA **Lab Number:** L1961123

Project Number: 57 TONAWANDA **Report Date:** 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-13 Date Collected: 12/19/19 00:00

Client ID: BH-11 NATIVE Date Received: 12/20/19

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	81		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	83		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	78		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	79		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	81		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	79		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	83		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	98		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	52		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	91		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	36		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	59		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	59		26-160

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-14
Client ID: BH-12
Sample Location: Not Specified

Date Collected: 12/19/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/22/20 11:04
Analyst: JW
Percent Solids: 93%

Extraction Method: ALPHA 23528
Extraction Date: 12/31/19 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.983	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.983	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.983	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.983	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.983	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.983	0.060	1
Perfluorooctanoic Acid (PFOA)	0.046	J	ug/kg	0.983	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.983	0.176	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.983	0.134	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.983	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	0.983	0.128	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.983	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.983	0.282	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.983	0.198	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.983	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.983	0.150	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.983	0.096	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.983	0.083	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.983	0.069	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.983	0.201	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.983	0.053	1
PFOA/PFOS, Total	0.046	J	ug/kg	0.983	0.041	1

Project Name: 57 TONAWANDA **Lab Number:** L1961123

Project Number: 57 TONAWANDA **Report Date:** 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-14 Date Collected: 12/19/19 00:00

Client ID: BH-12 Date Received: 12/20/19

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	86		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	93		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	48		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	7		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	53		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	55		26-160

PESTICIDES

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-01
Client ID: BH-10
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/26/19 17:09
Analyst: JMC
Percent Solids: 92%
Methylation Date: 12/24/19 15:00

Extraction Method: EPA 8151A
Extraction Date: 12/23/19 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	180	4.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	57		30-150	A
DCAA	53		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-02
Client ID: BH-03
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/26/19 17:28
Analyst: JMC
Percent Solids: 91%
Methylation Date: 12/24/19 15:00

Extraction Method: EPA 8151A
Extraction Date: 12/23/19 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	178	4.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	33		30-150	A
DCAA	32		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-03
Client ID: BH-02
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/26/19 18:04
Analyst: JMC
Percent Solids: 81%
Methylation Date: 12/24/19 15:00

Extraction Method: EPA 8151A
Extraction Date: 12/23/19 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	204	5.42	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	75		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-04
Client ID: BH-13
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/26/19 18:23
Analyst: JMC
Percent Solids: 97%
Methylation Date: 12/24/19 15:00

Extraction Method: EPA 8151A
Extraction Date: 12/23/19 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	169	4.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	30		30-150	A
DCAA	**28**	Q	30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-05
Client ID: BH-05
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/26/19 18:41
Analyst: JMC
Percent Solids: 87%
Methylation Date: 12/24/19 15:00

Extraction Method: EPA 8151A
Extraction Date: 12/23/19 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	187	4.98	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	75		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-06
Client ID: BH-06
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/26/19 18:59
Analyst: JMC
Percent Solids: 93%
Methylation Date: 12/24/19 15:00

Extraction Method: EPA 8151A
Extraction Date: 12/23/19 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	176	4.69	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**24**	Q	30-150	A
DCAA	32		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-12
Client ID: BH-4 1-4'
Sample Location: Not Specified

Date Collected: 12/19/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/26/19 20:49
Analyst: JMC
Percent Solids: 86%
Methylation Date: 12/24/19 15:00

Extraction Method: EPA 8151A
Extraction Date: 12/23/19 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	192	5.11	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	74		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-13
Client ID: BH-11 NATIVE
Sample Location: Not Specified

Date Collected: 12/19/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/26/19 21:26
Analyst: JMC
Percent Solids: 76%
Methylation Date: 12/24/19 15:00

Extraction Method: EPA 8151A
Extraction Date: 12/23/19 12:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	211	5.62	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	79		30-150	B

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-14
Client ID: BH-12
Sample Location: Not Specified

Date Collected: 12/19/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/26/19 21:44
Analyst: JMC
Percent Solids: 93%
Methylation Date: 12/24/19 15:00

Extraction Method: EPA 8151A
Extraction Date: 12/23/19 12:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	178	4.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	75		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-01
Client ID: BH-10
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.2		%	0.100	NA	1	-	12/21/19 13:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.868	0.174	1	12/23/19 10:20	12/23/19 20:30	1,7196A	DR

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-02
Client ID: BH-03
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.9		%	0.100	NA	1	-	12/21/19 13:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.880	0.176	1	12/23/19 10:20	12/23/19 20:30	1,7196A	DR

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-03
Client ID: BH-02
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	12/21/19 13:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.985	0.197	1	12/23/19 10:20	12/23/19 20:30	1,7196A	DR

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-04
Client ID: BH-13
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.3		%	0.100	NA	1	-	12/21/19 13:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.822	0.164	1	12/23/19 10:20	12/23/19 20:30	1,7196A	DR

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-05
Client ID: BH-05
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	12/21/19 13:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.924	0.185	1	12/23/19 10:20	12/23/19 20:30	1,7196A	DR

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-06
Client ID: BH-06
Sample Location: Not Specified

Date Collected: 12/18/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.1		%	0.100	NA	1	-	12/21/19 13:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.859	0.172	1	12/23/19 10:20	12/23/19 20:30	1,7196A	DR

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-12
Client ID: BH-4 1-4'
Sample Location: Not Specified
Sample Depth:
Matrix: Soil
Date Collected: 12/19/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.6		%	0.100	NA	1	-	12/21/19 13:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.934	0.187	1	12/23/19 10:20	12/23/19 20:30	1,7196A	DR

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-13
Client ID: BH-11 NATIVE
Sample Location: Not Specified

Date Collected: 12/19/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.4		%	0.100	NA	1	-	12/21/19 13:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.05	0.209	1	12/23/19 10:20	12/23/19 20:30	1,7196A	DR

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L1961123
Report Date: 01/22/20

SAMPLE RESULTS

Lab ID: L1961123-14
Client ID: BH-12
Sample Location: Not Specified
Sample Depth:
Matrix: Soil

Date Collected: 12/19/19 00:00
Date Received: 12/20/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.7		%	0.100	NA	1	-	12/21/19 13:19	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.863	0.172	1	12/23/19 10:20	12/23/19 20:30	1,7196A	DR

Project Name:	57 TONAWANDA	**Lab Number:**	L1961123
Project Number:	57 TONAWANDA	**Report Date:**	01/22/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA	**Lab Number:**	L1961123
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1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Project Name:	57 TONAWANDA	**Lab Number:**	L1961123
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Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA	**Lab Number:**	L1961123
Project Number:	57 TONAWANDA	**Report Date:**	01/22/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

L1961123

CHAIN OF CUSTODY

PARADIGM

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Paradigm Environmental	CLIENT:	Same	
ADDRESS:	179 Lake Avenue	ADDRESS:		
CITY:	Rochester STATE: NY ZIP 14608	CITY:	STATE: ZIP:	Results by 3 PM
PHONE:	585-647-2530	PHONE:		Email:
ATTN:	reporting@paradigmenv.com	ATTN:	accpay@paradigmenv.com	

PROJECT REFERENCE

57 Tonawanda

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Silvex	Hex Chrome	PFAS								REMARKS	PARADIGM LAB SAMPLE NUMBER
12/18/19		X	X	BH-10	SO	3	X	X	X									
12/18/19		X	X	BH-03	SO	3	X	X	X									
12/18/19		X	X	BH-02	SO	3	X	X	X									
12/18/19		X	X	BH-13	SO	3	X	X	X									
12/18/19		X	X	BH-05	SO	3	X	X	X									
12/18/19		X	X	BH-06	SO	3	X	X	X									
12/18/19		X		SS-01	SO	3	X	X	X									
12/18/19		X		SS-02	SO	3	X	X	X									
12/18/19		X		SS-03	SO	3	X	X	X									
12/19/19		X		SS-04	SO	3	X	X	X									

Turnaround Time		Report Supplements			
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other	☐	Other	☐	Other EDD	☐

Client — Sampled By — Date/Time: 12/19/19

James Steiner — Relinquished By — Date/Time: 12/20/19 11:05

Jocelyn Tilley (AAL) — Received By — Date/Time: 12/20/19 11:05

Jocelyn Tilley (AAL) — ~~Received @ Lab By~~ — Date/Time: 12/20/19 11:05

RELINQUISHED BY

12/21/19 01:15

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

L1961123

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		
CLIENT:	Paradigm Environmental	CLIENT:	Same	LAB PROJECT ID
ADDRESS:	179 Lake Avenue	ADDRESS:		
CITY:	Rochester STATE: NY ZIP 14608	CITY:	STATE: ZIP:	Results by 3 PM
PHONE:	585-647-2530	PHONE:		Email:
ATTN:	reporting@paradigmenv.com	ATTN:	accpay@paradigmenv.com	

PROJECT REFERENCE

57 Tonawanda

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Silvex	Hex Chrome	PFAS								REMARKS	PARADIGM LAB SAMPLE NUMBER
12/18/19		X	X	SS-05	SO	3	X	X	X									
12/18/19		X	X	BH-4 1-4'	SO	3	X	X	X									
12/18/19		X	X	BH-11 Native	SO	3	X	X	X									
12/18/19		X	X	BH-12	SO	3	X	X	X								Odor Detected	

Turnaround Time		Report Supplements			
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other	☐	Other	☐	Other EDD	☐

Client

Sampled By: James Steiner — Date/Time: 12/19/19

Relinquished By: Jocelyn Foley (AAL) — Date/Time: 12/20/19 11:05

Received By: Jocelyn Foley (AAL) — Date/Time: 12/20/19 11:05

~~Received @ Lab By~~ — Date/Time:

RELINQUISHED BY — 12/21/19 01:15

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1 of 3

CHAIN OF CUSTODY

Pg 1 of 2

PARADIGM

REPORT TO:		INVOICE TO:		
CLIENT: BE3		CLIENT:		LAB PROJECT ID: 196293
ADDRESS: 1270 Niagara		ADDRESS:		
CITY: Buffalo STATE: NY ZIP: 14211		CITY: STATE: ZIP:		Quotation #:
PHONE: 716-308-8220		PHONE:		Email:
ATTN: Pete Gorton		ATTN:		

PROJECT REFERENCE

57 Tonawanda

Matrix Codes:

AQ - Aqueous Liquid; **NQ** - Non-Aqueous Liquid; **WA** - Water; **WG** - Groundwater; **DW** - Drinking Water; **WW** - Wastewater; **SO** - Soil; **SL** - Sludge; **SD** - Solid; **PT** - Paint; **WP** - Wipe; **CK** - Caulk; **OL** - Oil; **AR** - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	375 VOC	375 sVOC	375 Metals	375 PCB	Pesticides	TCL	Silver	Cr6	PFAS	TCLP Solids	1-4 Dioxane	REMARKS	PARADIGM LAB SAMPLE NUMBER
12/18/19		X	X	BH-10 1-2 ft (per sample jar labels MW 12/23/19)	SO	5													01
				BH-~~03~~ (TM) BH-03 1-4ft	SO	5													02
				BH-02 1-2 ft	SO	5													03
				BH-13 1-2 ft	SO	5													04
				BH-05 1-4 ft	SO	5													05
				BH-06 1-4 ft	SO	5													06
	1350			SS-01	SO	4													07
	1414			SS-02	SO	4													08
(TM)	1436			SS-03	SO	4													09
12/19/19	1000			SS-04 (per sample jar labels MW 12/23/19)	SO	4												sub-part directly to sub-lab	10

Turnaround Time

Availability contingent upon lab approval; additional fees may apply.

Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Date Needed _____ please indicate date needed:		Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

Sampled By: Matthew Spera	Date/Time: 12/19/19	Total Cost:
Relinquished By: Matthew Spera	Date/Time: 12/19/19	
Received By:	Date/Time: 12/19/19	P.I.F.
Received @ Lab By:	Date/Time: 12/20/19 1545	

4 °C ice 12/20/19 15:43

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM

REPORT TO:		INVOICE TO:		
CLIENT:	BE3	CLIENT:		LAB PROJECT ID: 196293
ADDRESS:	1270 Niagara	ADDRESS:		
CITY: Buffalo	STATE: NY ZIP: 14211	CITY:	STATE: ZIP:	Quotation #:
PHONE:		PHONE:		Email:
ATTN:	Pete Gorton	ATTN:		

PROJECT REFERENCE

57 Tonawanda

Matrix Codes:

AQ - Aqueous Liquid; **NQ** - Non-Aqueous Liquid; **WA** - Water; **WG** - Groundwater; **DW** - Drinking Water; **WW** - Wastewater; **SO** - Soil; **SL** - Sludge; **SD** - Solid; **PT** - Paint; **WP** - Wipe; **CK** - Caulk; **OL** - Oil; **AR** - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	375 VOC	375 sVOC	375 metals	375 PCB	Pesticide	TCLP	Silvex	Cr6	PFAS	%Solids	1-4 Dioxane	REMARKS	PARADIGM LAB SAMPLE NUMBER
12/19/19	per sample jar label 12/23/19 1110			SS05	SO	1		—	—	—	—	—	—	—	—	—	✓	CPC PG · 1,4 Dioxane needed on all sample JD 12/23/19	11
				BH-11 1-4	SO	5	—	—	—	—	—	—	—	—	—	—	✓		12
				BH-11 Native 6-8	SO	5	—	—	—	—	—	—	—	—	—	—	✓		13
				BH-12 1-2 ft	SO	5	—	—	—	—	—	—	—	—	—	—	✓	(Odor detected)	14
				per sample jar label 12/23/19															

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Date Needed _____ please indicate date needed:		Other ☐ please indicate package needed:		Other EDD ☐ please indicate EDD needed :	

Sampled By: Matthew Sbarra	Date/Time: 12/19/19	Total Cost:
Relinquished By: Matthew Sbarra	Date/Time: 12/19/19	
Received By: [signature]	Date/Time: 12/19/19	P.I.F.
Received @ Lab By: [signature]	Date/Time: 12/20/19 1545	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

Chain of Custody Supplement

Client: BE3 **Completed by:** MollyRail

Lab Project ID: 196293 **Date:** 12/20/19

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X	5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		met
Comments	4°C iced		
Compliant Sample Quantity/Type	X		
Comments	Silver Hex chrom PFAS sent directly to sub lab		

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 14 - 8-9 Feet
Lab Sample ID: 200134-01 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**2.97**	mg/Kg		1/15/2020 16:31
Barium	**33.8**	mg/Kg		1/15/2020 16:31
Beryllium	< 0.283	mg/Kg		1/15/2020 16:31
Cadmium	**0.467**	mg/Kg		1/15/2020 16:31
Chromium	**5.82**	mg/Kg		1/15/2020 16:31
Copper	**297**	mg/Kg		1/15/2020 16:31
Lead	**52.5**	mg/Kg		1/15/2020 16:31
Manganese	**133**	mg/Kg		1/15/2020 16:31
Nickel	**7.02**	mg/Kg		1/15/2020 16:31
Selenium	**1.94**	mg/Kg		1/15/2020 16:31
Silver	< 0.566	mg/Kg		1/15/2020 16:31
Zinc	**92.4**	mg/Kg		1/15/2020 16:31

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 1/14/2020
Data File: 200115C

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, January 16, 2020

Partial

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	TP Location 14 - 8-9 Feet		
Lab Sample ID:	200134-01	**Date Sampled:**	1/8/2020
Matrix:	Soil	**Date Received:**	1/9/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0638**	mg/Kg		1/13/2020 10:43

Method Reference(s): EPA 7471B
Preparation Date: 1/10/2020
Data File: Hg200113A

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 14 - 8-9 Feet
Lab Sample ID: 200134-01 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0325	mg/Kg		1/10/2020 16:02
PCB-1221	< 0.0325	mg/Kg		1/10/2020 16:02
PCB-1232	< 0.0325	mg/Kg		1/10/2020 16:02
PCB-1242	< 0.0325	mg/Kg		1/10/2020 16:02
PCB-1248	< 0.0325	mg/Kg		1/10/2020 16:02
PCB-1254	< 0.0325	mg/Kg		1/10/2020 16:02
PCB-1260	< 0.0325	mg/Kg		1/10/2020 16:02
PCB-1262	< 0.0325	mg/Kg		1/10/2020 16:02
PCB-1268	< 0.0325	mg/Kg		1/10/2020 16:02

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**40.1**	18.3 - 89.6		1/10/2020 16:02

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 1/10/2020

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 14 - 8-9 Feet
Lab Sample ID: 200134-01 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.25	ug/Kg		1/10/2020 17:30
4,4-DDE	< 3.25	ug/Kg		1/10/2020 17:30
4,4-DDT	**4.18**	ug/Kg	M	1/10/2020 17:30
Aldrin	< 3.25	ug/Kg		1/10/2020 17:30
alpha-BHC	< 3.25	ug/Kg		1/10/2020 17:30
beta-BHC	< 3.25	ug/Kg	M	1/10/2020 17:30
cis-Chlordane	< 3.25	ug/Kg	M	1/10/2020 17:30
delta-BHC	< 3.25	ug/Kg	M	1/10/2020 17:30
Dieldrin	< 3.25	ug/Kg	M	1/10/2020 17:30
Endosulfan I	< 3.25	ug/Kg	M	1/10/2020 17:30
Endosulfan II	< 3.25	ug/Kg	M	1/10/2020 17:30
Endosulfan Sulfate	**2.73**	ug/Kg	JM	1/10/2020 17:30
Endrin	< 3.25	ug/Kg	M	1/10/2020 17:30
Endrin Aldehyde	< 3.25	ug/Kg	M	1/10/2020 17:30
Endrin Ketone	< 3.25	ug/Kg	M	1/10/2020 17:30
gamma-BHC (Lindane)	**4.84**	ug/Kg	M	1/10/2020 17:30
Heptachlor	< 3.25	ug/Kg	M	1/10/2020 17:30
Heptachlor Epoxide	< 3.25	ug/Kg	MD	1/10/2020 17:30
Methoxychlor	< 3.25	ug/Kg	M	1/10/2020 17:30
Toxaphene	< 32.5	ug/Kg		1/10/2020 17:30
trans-Chlordane	< 3.25	ug/Kg	M	1/10/2020 17:30

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 14 - 8-9 Feet

Lab Sample ID: 200134-01 **Date Sampled:** 1/8/2020

Matrix: Soil **Date Received:** 1/9/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
Decachlorobiphenyl (1)	**13.8**	30.7 - 111	*	1/10/2020	17:30
Tetrachloro-m-xylene (1)	**56.9**	34.7 - 87.3		1/10/2020	17:30

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 1/10/2020

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 14 - 8-9 Feet
Lab Sample ID: 200134-01 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 303	ug/Kg		1/15/2020 01:38
1,2,4,5-Tetrachlorobenzene	< 303	ug/Kg		1/15/2020 01:38
1,2,4-Trichlorobenzene	< 303	ug/Kg		1/15/2020 01:38
1,2-Dichlorobenzene	< 303	ug/Kg		1/15/2020 01:38
1,3-Dichlorobenzene	< 303	ug/Kg		1/15/2020 01:38
1,4-Dichlorobenzene	< 303	ug/Kg		1/15/2020 01:38
2,2-Oxybis (1-chloropropane)	< 303	ug/Kg		1/15/2020 01:38
2,3,4,6-Tetrachlorophenol	< 303	ug/Kg		1/15/2020 01:38
2,4,5-Trichlorophenol	< 303	ug/Kg		1/15/2020 01:38
2,4,6-Trichlorophenol	< 303	ug/Kg		1/15/2020 01:38
2,4-Dichlorophenol	< 303	ug/Kg		1/15/2020 01:38
2,4-Dimethylphenol	< 303	ug/Kg		1/15/2020 01:38
2,4-Dinitrophenol	< 1210	ug/Kg		1/15/2020 01:38
2,4-Dinitrotoluene	< 303	ug/Kg		1/15/2020 01:38
2,6-Dinitrotoluene	< 303	ug/Kg		1/15/2020 01:38
2-Chloronaphthalene	< 303	ug/Kg		1/15/2020 01:38
2-Chlorophenol	< 303	ug/Kg		1/15/2020 01:38
2-Methylnapthalene	< 303	ug/Kg		1/15/2020 01:38
2-Methylphenol	< 303	ug/Kg		1/15/2020 01:38
2-Nitroaniline	< 303	ug/Kg		1/15/2020 01:38
2-Nitrophenol	< 303	ug/Kg		1/15/2020 01:38
3&4-Methylphenol	< 303	ug/Kg		1/15/2020 01:38
3,3'-Dichlorobenzidine	< 303	ug/Kg		1/15/2020 01:38

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 14 - 8-9 Feet
Lab Sample ID: 200134-01 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

3-Nitroaniline	< 303	ug/Kg		1/15/2020	01:38
4,6-Dinitro-2-methylphenol	< 605	ug/Kg		1/15/2020	01:38
4-Bromophenyl phenyl ether	< 303	ug/Kg		1/15/2020	01:38
4-Chloro-3-methylphenol	< 303	ug/Kg		1/15/2020	01:38
4-Chloroaniline	< 303	ug/Kg		1/15/2020	01:38
4-Chlorophenyl phenyl ether	< 303	ug/Kg		1/15/2020	01:38
4-Nitroaniline	< 303	ug/Kg		1/15/2020	01:38
4-Nitrophenol	< 303	ug/Kg		1/15/2020	01:38
Acenaphthene	< 303	ug/Kg		1/15/2020	01:38
Acenaphthylene	**232**	ug/Kg	J	1/15/2020	01:38
Acetophenone	< 303	ug/Kg		1/15/2020	01:38
Anthracene	**309**	ug/Kg		1/15/2020	01:38
Atrazine	< 303	ug/Kg		1/15/2020	01:38
Benzaldehyde	< 303	ug/Kg		1/15/2020	01:38
Benzo (a) anthracene	**705**	ug/Kg		1/15/2020	01:38
Benzo (a) pyrene	**936**	ug/Kg		1/15/2020	01:38
Benzo (b) fluoranthene	**871**	ug/Kg		1/15/2020	01:38
Benzo (g,h,i) perylene	**731**	ug/Kg		1/15/2020	01:38
Benzo (k) fluoranthene	**700**	ug/Kg		1/15/2020	01:38
Bis (2-chloroethoxy) methane	< 303	ug/Kg		1/15/2020	01:38
Bis (2-chloroethyl) ether	< 303	ug/Kg		1/15/2020	01:38
Bis (2-ethylhexyl) phthalate	< 303	ug/Kg		1/15/2020	01:38
Butylbenzylphthalate	< 303	ug/Kg		1/15/2020	01:38
Caprolactam	< 303	ug/Kg		1/15/2020	01:38
Carbazole	< 303	ug/Kg		1/15/2020	01:38

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 14 - 8-9 Feet
Lab Sample ID: 200134-01 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Chrysene	**773**	ug/Kg		1/15/2020	01:38
Dibenz (a,h) anthracene	**220**	ug/Kg	J	1/15/2020	01:38
Dibenzofuran	< 303	ug/Kg		1/15/2020	01:38
Diethyl phthalate	< 303	ug/Kg		1/15/2020	01:38
Dimethyl phthalate	< 303	ug/Kg		1/15/2020	01:38
Di-n-butyl phthalate	< 303	ug/Kg		1/15/2020	01:38
Di-n-octylphthalate	< 303	ug/Kg		1/15/2020	01:38
Fluoranthene	**1400**	ug/Kg		1/15/2020	01:38
Fluorene	< 303	ug/Kg		1/15/2020	01:38
Hexachlorobenzene	< 303	ug/Kg		1/15/2020	01:38
Hexachlorobutadiene	< 303	ug/Kg		1/15/2020	01:38
Hexachlorocyclopentadiene	< 1210	ug/Kg		1/15/2020	01:38
Hexachloroethane	< 303	ug/Kg		1/15/2020	01:38
Indeno (1,2,3-cd) pyrene	**592**	ug/Kg		1/15/2020	01:38
Isophorone	< 303	ug/Kg		1/15/2020	01:38
Naphthalene	< 303	ug/Kg		1/15/2020	01:38
Nitrobenzene	< 303	ug/Kg		1/15/2020	01:38
N-Nitroso-di-n-propylamine	< 303	ug/Kg		1/15/2020	01:38
N-Nitrosodiphenylamine	< 303	ug/Kg		1/15/2020	01:38
Pentachlorophenol	< 605	ug/Kg		1/15/2020	01:38
Phenanthrene	**651**	ug/Kg		1/15/2020	01:38
Phenol	< 303	ug/Kg		1/15/2020	01:38
Pyrene	**1110**	ug/Kg		1/15/2020	01:38

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 14 - 8-9 Feet

Lab Sample ID: 200134-01 **Date Sampled:** 1/8/2020

Matrix: Soil **Date Received:** 1/9/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**34.1**	35.1 - 89.5	*	1/15/2020	01:38
2-Fluorobiphenyl	**35.0**	37.7 - 81.4	*	1/15/2020	01:38
2-Fluorophenol	**34.8**	40.2 - 77	*	1/15/2020	01:38
Nitrobenzene-d5	**34.7**	36.2 - 78.4	*	1/15/2020	01:38
Phenol-d5	**35.8**	41.2 - 77.1	*	1/15/2020	01:38
Terphenyl-d14	**35.5**	39.8 - 97.5	*	1/15/2020	01:38

Method Reference(s): EPA 8270D
EPA 3546

Preparation Date: 1/10/2020

Data File: B43795.D

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 14 - 8-9 Feet
Lab Sample ID: 200134-01 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.93	ug/Kg		1/10/2020 16:35
1,1,2,2-Tetrachloroethane	< 4.93	ug/Kg		1/10/2020 16:35
1,1,2-Trichloroethane	< 4.93	ug/Kg		1/10/2020 16:35
1,1-Dichloroethane	< 4.93	ug/Kg		1/10/2020 16:35
1,1-Dichloroethene	< 4.93	ug/Kg		1/10/2020 16:35
1,2,3-Trichlorobenzene	< 12.3	ug/Kg		1/10/2020 16:35
1,2,4-Trichlorobenzene	< 12.3	ug/Kg		1/10/2020 16:35
1,2,4-Trimethylbenzene	< 4.93	ug/Kg		1/10/2020 16:35
1,2-Dibromo-3-Chloropropane	< 24.7	ug/Kg		1/10/2020 16:35
1,2-Dibromoethane	< 4.93	ug/Kg		1/10/2020 16:35
1,2-Dichlorobenzene	< 4.93	ug/Kg		1/10/2020 16:35
1,2-Dichloroethane	< 4.93	ug/Kg		1/10/2020 16:35
1,2-Dichloropropane	< 4.93	ug/Kg		1/10/2020 16:35
1,3,5-Trimethylbenzene	< 4.93	ug/Kg		1/10/2020 16:35
1,3-Dichlorobenzene	< 4.93	ug/Kg		1/10/2020 16:35
1,4-Dichlorobenzene	< 4.93	ug/Kg		1/10/2020 16:35
1,4-Dioxane	< 49.3	ug/Kg		1/10/2020 16:35
2-Butanone	< 24.7	ug/Kg		1/10/2020 16:35
2-Hexanone	< 12.3	ug/Kg		1/10/2020 16:35
4-Methyl-2-pentanone	< 12.3	ug/Kg		1/10/2020 16:35
Acetone	< 24.7	ug/Kg		1/10/2020 16:35
Benzene	< 4.93	ug/Kg		1/10/2020 16:35
Bromochloromethane	< 12.3	ug/Kg		1/10/2020 16:35

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 14 - 8-9 Feet
Lab Sample ID: 200134-01 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Bromodichloromethane	< 4.93	ug/Kg	1/10/2020	16:35
Bromoform	< 12.3	ug/Kg	1/10/2020	16:35
Bromomethane	< 4.93	ug/Kg	1/10/2020	16:35
Carbon disulfide	< 4.93	ug/Kg	1/10/2020	16:35
Carbon Tetrachloride	< 4.93	ug/Kg	1/10/2020	16:35
Chlorobenzene	< 4.93	ug/Kg	1/10/2020	16:35
Chloroethane	< 4.93	ug/Kg	1/10/2020	16:35
Chloroform	< 4.93	ug/Kg	1/10/2020	16:35
Chloromethane	< 4.93	ug/Kg	1/10/2020	16:35
cis-1,2-Dichloroethene	< 4.93	ug/Kg	1/10/2020	16:35
cis-1,3-Dichloropropene	< 4.93	ug/Kg	1/10/2020	16:35
Cyclohexane	< 24.7	ug/Kg	1/10/2020	16:35
Dibromochloromethane	< 4.93	ug/Kg	1/10/2020	16:35
Dichlorodifluoromethane	< 4.93	ug/Kg	1/10/2020	16:35
Ethylbenzene	< 4.93	ug/Kg	1/10/2020	16:35
Freon 113	< 4.93	ug/Kg	1/10/2020	16:35
Isopropylbenzene	< 4.93	ug/Kg	1/10/2020	16:35
m,p-Xylene	< 4.93	ug/Kg	1/10/2020	16:35
Methyl acetate	< 4.93	ug/Kg	1/10/2020	16:35
Methyl tert-butyl Ether	< 4.93	ug/Kg	1/10/2020	16:35
Methylcyclohexane	< 4.93	ug/Kg	1/10/2020	16:35
Methylene chloride	< 12.3	ug/Kg	1/10/2020	16:35
Naphthalene	< 12.3	ug/Kg	1/10/2020	16:35
n-Butylbenzene	< 4.93	ug/Kg	1/10/2020	16:35
n-Propylbenzene	< 4.93	ug/Kg	1/10/2020	16:35

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 14 - 8-9 Feet
Lab Sample ID: 200134-01 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

o-Xylene	< 4.93	ug/Kg		1/10/2020	16:35
p-Isopropyltoluene	< 4.93	ug/Kg		1/10/2020	16:35
sec-Butylbenzene	< 4.93	ug/Kg		1/10/2020	16:35
Styrene	< 12.3	ug/Kg		1/10/2020	16:35
tert-Butylbenzene	< 4.93	ug/Kg		1/10/2020	16:35
Tetrachloroethene	< 4.93	ug/Kg		1/10/2020	16:35
Toluene	< 4.93	ug/Kg		1/10/2020	16:35
trans-1,2-Dichloroethene	**3.22**	ug/Kg	J	1/10/2020	16:35
trans-1,3-Dichloropropene	< 4.93	ug/Kg		1/10/2020	16:35
Trichloroethene	< 4.93	ug/Kg		1/10/2020	16:35
Trichlorofluoromethane	< 4.93	ug/Kg		1/10/2020	16:35
Vinyl chloride	< 4.93	ug/Kg		1/10/2020	16:35

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**120**	67.9 - 146		1/10/2020	16:35
4-Bromofluorobenzene	**61.7**	64.6 - 127	*	1/10/2020	16:35
Pentafluorobenzene	**100**	85.5 - 113		1/10/2020	16:35
Toluene-D8	**79.3**	83.9 - 114	*	1/10/2020	16:35

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x67778.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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Partial

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 14 - 8-9 Feet
Lab Sample ID: 200134-01 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.550	mg/Kg		1/15/2020

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 1/10/2020

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	TP Location 14 - 8-9 Feet		
Lab Sample ID:	200134-01	**Date Sampled:**	1/8/2020
Matrix:	Soil	**Date Received:**	1/9/2020

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**87.4**	%		1/10/2020

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 16 - 1-3 Feet
Lab Sample ID: 200134-02 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**2.55**	mg/Kg		1/15/2020 16:36
Barium	**44.4**	mg/Kg		1/15/2020 16:36
Beryllium	**0.181**	mg/Kg	J	1/15/2020 16:36
Cadmium	**0.248**	mg/Kg	J	1/15/2020 16:36
Chromium	**7.95**	mg/Kg		1/15/2020 16:36
Copper	**21.8**	mg/Kg		1/15/2020 16:36
Lead	**74.5**	mg/Kg		1/15/2020 16:36
Manganese	**175**	mg/Kg		1/15/2020 16:36
Nickel	**8.43**	mg/Kg		1/15/2020 16:36
Selenium	**1.08**	mg/Kg		1/16/2020 09:21
Silver	< 0.522	mg/Kg		1/15/2020 16:36
Zinc	**129**	mg/Kg		1/15/2020 16:36

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 1/14/2020
Data File: 200115C

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 16 - 1-3 Feet
Lab Sample ID: 200134-02 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0332**	mg/Kg		1/13/2020 10:45

Method Reference(s): EPA 7471B
Preparation Date: 1/10/2020
Data File: Hg200113A

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 16 - 1-3 Feet
Lab Sample ID: 200134-02 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0277	mg/Kg		1/10/2020 16:25
PCB-1221	< 0.0277	mg/Kg		1/10/2020 16:25
PCB-1232	< 0.0277	mg/Kg		1/10/2020 16:25
PCB-1242	< 0.0277	mg/Kg		1/10/2020 16:25
PCB-1248	< 0.0277	mg/Kg		1/10/2020 16:25
PCB-1254	< 0.0277	mg/Kg		1/10/2020 16:25
PCB-1260	< 0.0277	mg/Kg		1/10/2020 16:25
PCB-1262	< 0.0277	mg/Kg		1/10/2020 16:25
PCB-1268	< 0.0277	mg/Kg		1/10/2020 16:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**26.8**	18.3 - 89.6		1/10/2020 16:25

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 1/10/2020

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 16 - 1-3 Feet
Lab Sample ID: 200134-02 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**2.80**	ug/Kg	P	1/10/2020 18:26
4,4-DDE	< 2.77	ug/Kg		1/10/2020 18:26
4,4-DDT	**4.09**	ug/Kg	P	1/10/2020 18:26
Aldrin	< 2.77	ug/Kg		1/10/2020 18:26
alpha-BHC	< 2.77	ug/Kg		1/10/2020 18:26
beta-BHC	< 2.77	ug/Kg		1/10/2020 18:26
cis-Chlordane	**1.91**	ug/Kg	J	1/10/2020 18:26
delta-BHC	< 2.77	ug/Kg		1/10/2020 18:26
Dieldrin	< 2.77	ug/Kg		1/10/2020 18:26
Endosulfan I	< 2.77	ug/Kg		1/10/2020 18:26
Endosulfan II	< 2.77	ug/Kg		1/10/2020 18:26
Endosulfan Sulfate	**3.50**	ug/Kg		1/10/2020 18:26
Endrin	< 2.77	ug/Kg		1/10/2020 18:26
Endrin Aldehyde	< 2.77	ug/Kg		1/10/2020 18:26
Endrin Ketone	**2.60**	ug/Kg	JP	1/10/2020 18:26
gamma-BHC (Lindane)	< 2.77	ug/Kg		1/10/2020 18:26
Heptachlor	< 2.77	ug/Kg		1/10/2020 18:26
Heptachlor Epoxide	< 2.77	ug/Kg		1/10/2020 18:26
Methoxychlor	**7.18**	ug/Kg	P	1/10/2020 18:26
Toxaphene	< 27.7	ug/Kg		1/10/2020 18:26
trans-Chlordane	**2.11**	ug/Kg	J	1/10/2020 18:26

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 16 - 1-3 Feet
Lab Sample ID: 200134-02 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**48.4**	30.7 - 111		1/10/2020 18:26
Tetrachloro-m-xylene (1)	**43.6**	34.7 - 87.3		1/10/2020 18:26

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 1/10/2020

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Report Prepared Thursday, January 16, 2020

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 16 - 1-3 Feet
Lab Sample ID: 200134-02 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 286	ug/Kg		1/15/2020 02:07
1,2,4,5-Tetrachlorobenzene	< 286	ug/Kg		1/15/2020 02:07
1,2,4-Trichlorobenzene	< 286	ug/Kg		1/15/2020 02:07
1,2-Dichlorobenzene	< 286	ug/Kg		1/15/2020 02:07
1,3-Dichlorobenzene	< 286	ug/Kg		1/15/2020 02:07
1,4-Dichlorobenzene	< 286	ug/Kg		1/15/2020 02:07
2,2-Oxybis (1-chloropropane)	< 286	ug/Kg		1/15/2020 02:07
2,3,4,6-Tetrachlorophenol	< 286	ug/Kg		1/15/2020 02:07
2,4,5-Trichlorophenol	< 286	ug/Kg		1/15/2020 02:07
2,4,6-Trichlorophenol	< 286	ug/Kg		1/15/2020 02:07
2,4-Dichlorophenol	< 286	ug/Kg		1/15/2020 02:07
2,4-Dimethylphenol	< 286	ug/Kg		1/15/2020 02:07
2,4-Dinitrophenol	< 1140	ug/Kg		1/15/2020 02:07
2,4-Dinitrotoluene	< 286	ug/Kg		1/15/2020 02:07
2,6-Dinitrotoluene	< 286	ug/Kg		1/15/2020 02:07
2-Chloronaphthalene	< 286	ug/Kg		1/15/2020 02:07
2-Chlorophenol	< 286	ug/Kg		1/15/2020 02:07
2-Methylnapthalene	< 286	ug/Kg		1/15/2020 02:07
2-Methylphenol	< 286	ug/Kg		1/15/2020 02:07
2-Nitroaniline	< 286	ug/Kg		1/15/2020 02:07
2-Nitrophenol	< 286	ug/Kg		1/15/2020 02:07
3&4-Methylphenol	< 286	ug/Kg		1/15/2020 02:07
3,3'-Dichlorobenzidine	< 286	ug/Kg		1/15/2020 02:07

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 16 - 1-3 Feet
Lab Sample ID: 200134-02 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

3-Nitroaniline	< 286	ug/Kg	1/15/2020	02:07
4,6-Dinitro-2-methylphenol	< 572	ug/Kg	1/15/2020	02:07
4-Bromophenyl phenyl ether	< 286	ug/Kg	1/15/2020	02:07
4-Chloro-3-methylphenol	< 286	ug/Kg	1/15/2020	02:07
4-Chloroaniline	< 286	ug/Kg	1/15/2020	02:07
4-Chlorophenyl phenyl ether	< 286	ug/Kg	1/15/2020	02:07
4-Nitroaniline	< 286	ug/Kg	1/15/2020	02:07
4-Nitrophenol	< 286	ug/Kg	1/15/2020	02:07
Acenaphthene	< 286	ug/Kg	1/15/2020	02:07
Acenaphthylene	**500**	ug/Kg	1/15/2020	02:07
Acetophenone	< 286	ug/Kg	1/15/2020	02:07
Anthracene	**955**	ug/Kg	1/15/2020	02:07
Atrazine	< 286	ug/Kg	1/15/2020	02:07
Benzaldehyde	< 286	ug/Kg	1/15/2020	02:07
Benzo (a) anthracene	**1950**	ug/Kg	1/15/2020	02:07
Benzo (a) pyrene	**1570**	ug/Kg	1/15/2020	02:07
Benzo (b) fluoranthene	**1630**	ug/Kg	1/15/2020	02:07
Benzo (g,h,i) perylene	**1050**	ug/Kg	1/15/2020	02:07
Benzo (k) fluoranthene	**1280**	ug/Kg	1/15/2020	02:07
Bis (2-chloroethoxy) methane	< 286	ug/Kg	1/15/2020	02:07
Bis (2-chloroethyl) ether	< 286	ug/Kg	1/15/2020	02:07
Bis (2-ethylhexyl) phthalate	< 286	ug/Kg	1/15/2020	02:07
Butylbenzylphthalate	< 286	ug/Kg	1/15/2020	02:07
Caprolactam	< 286	ug/Kg	1/15/2020	02:07
Carbazole	**422**	ug/Kg	1/15/2020	02:07

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 16 - 1-3 Feet
Lab Sample ID: 200134-02 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Chrysene	**1780**	ug/Kg		1/15/2020	02:07
Dibenz (a,h) anthracene	**362**	ug/Kg		1/15/2020	02:07
Dibenzofuran	< 286	ug/Kg		1/15/2020	02:07
Diethyl phthalate	< 286	ug/Kg		1/15/2020	02:07
Dimethyl phthalate	< 286	ug/Kg		1/15/2020	02:07
Di-n-butyl phthalate	< 286	ug/Kg		1/15/2020	02:07
Di-n-octylphthalate	< 286	ug/Kg		1/15/2020	02:07
Fluoranthene	**4550**	ug/Kg		1/15/2020	02:07
Fluorene	**274**	ug/Kg	J	1/15/2020	02:07
Hexachlorobenzene	< 286	ug/Kg		1/15/2020	02:07
Hexachlorobutadiene	< 286	ug/Kg		1/15/2020	02:07
Hexachlorocyclopentadiene	< 1140	ug/Kg		1/15/2020	02:07
Hexachloroethane	< 286	ug/Kg		1/15/2020	02:07
Indeno (1,2,3-cd) pyrene	**901**	ug/Kg		1/15/2020	02:07
Isophorone	< 286	ug/Kg		1/15/2020	02:07
Naphthalene	< 286	ug/Kg		1/15/2020	02:07
Nitrobenzene	< 286	ug/Kg		1/15/2020	02:07
N-Nitroso-di-n-propylamine	< 286	ug/Kg		1/15/2020	02:07
N-Nitrosodiphenylamine	< 286	ug/Kg		1/15/2020	02:07
Pentachlorophenol	< 572	ug/Kg		1/15/2020	02:07
Phenanthrene	**2940**	ug/Kg		1/15/2020	02:07
Phenol	< 286	ug/Kg		1/15/2020	02:07
Pyrene	**3120**	ug/Kg		1/15/2020	02:07

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 16 - 1-3 Feet
Lab Sample ID: 200134-02 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**30.9**	35.1 - 89.5	*	1/15/2020	02:07
2-Fluorobiphenyl	**32.8**	37.7 - 81.4	*	1/15/2020	02:07
2-Fluorophenol	**32.1**	40.2 - 77	*	1/15/2020	02:07
Nitrobenzene-d5	**31.3**	36.2 - 78.4	*	1/15/2020	02:07
Phenol-d5	**32.5**	41.2 - 77.1	*	1/15/2020	02:07
Terphenyl-d14	**31.9**	39.8 - 97.5	*	1/15/2020	02:07

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 1/10/2020
Data File: B43796.D

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 16 - 1-3 Feet
Lab Sample ID: 200134-02 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.29	ug/Kg		1/10/2020 16:58
1,1,2,2-Tetrachloroethane	< 4.29	ug/Kg		1/10/2020 16:58
1,1,2-Trichloroethane	< 4.29	ug/Kg		1/10/2020 16:58
1,1-Dichloroethane	< 4.29	ug/Kg		1/10/2020 16:58
1,1-Dichloroethene	< 4.29	ug/Kg		1/10/2020 16:58
1,2,3-Trichlorobenzene	< 10.7	ug/Kg		1/10/2020 16:58
1,2,4-Trichlorobenzene	< 10.7	ug/Kg		1/10/2020 16:58
1,2,4-Trimethylbenzene	< 4.29	ug/Kg		1/10/2020 16:58
1,2-Dibromo-3-Chloropropane	< 21.5	ug/Kg		1/10/2020 16:58
1,2-Dibromoethane	< 4.29	ug/Kg		1/10/2020 16:58
1,2-Dichlorobenzene	< 4.29	ug/Kg		1/10/2020 16:58
1,2-Dichloroethane	< 4.29	ug/Kg		1/10/2020 16:58
1,2-Dichloropropane	< 4.29	ug/Kg		1/10/2020 16:58
1,3,5-Trimethylbenzene	< 4.29	ug/Kg		1/10/2020 16:58
1,3-Dichlorobenzene	< 4.29	ug/Kg		1/10/2020 16:58
1,4-Dichlorobenzene	< 4.29	ug/Kg		1/10/2020 16:58
1,4-Dioxane	< 42.9	ug/Kg		1/10/2020 16:58
2-Butanone	< 21.5	ug/Kg		1/10/2020 16:58
2-Hexanone	< 10.7	ug/Kg		1/10/2020 16:58
4-Methyl-2-pentanone	< 10.7	ug/Kg		1/10/2020 16:58
Acetone	< 21.5	ug/Kg		1/10/2020 16:58
Benzene	< 4.29	ug/Kg		1/10/2020 16:58
Bromochloromethane	< 10.7	ug/Kg		1/10/2020 16:58

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 16 - 1-3 Feet
Lab Sample ID: 200134-02 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Bromodichloromethane	< 4.29	ug/Kg	1/10/2020	16:58
Bromoform	< 10.7	ug/Kg	1/10/2020	16:58
Bromomethane	< 4.29	ug/Kg	1/10/2020	16:58
Carbon disulfide	< 4.29	ug/Kg	1/10/2020	16:58
Carbon Tetrachloride	< 4.29	ug/Kg	1/10/2020	16:58
Chlorobenzene	< 4.29	ug/Kg	1/10/2020	16:58
Chloroethane	< 4.29	ug/Kg	1/10/2020	16:58
Chloroform	< 4.29	ug/Kg	1/10/2020	16:58
Chloromethane	< 4.29	ug/Kg	1/10/2020	16:58
cis-1,2-Dichloroethene	< 4.29	ug/Kg	1/10/2020	16:58
cis-1,3-Dichloropropene	< 4.29	ug/Kg	1/10/2020	16:58
Cyclohexane	< 21.5	ug/Kg	1/10/2020	16:58
Dibromochloromethane	< 4.29	ug/Kg	1/10/2020	16:58
Dichlorodifluoromethane	< 4.29	ug/Kg	1/10/2020	16:58
Ethylbenzene	< 4.29	ug/Kg	1/10/2020	16:58
Freon 113	< 4.29	ug/Kg	1/10/2020	16:58
Isopropylbenzene	< 4.29	ug/Kg	1/10/2020	16:58
m,p-Xylene	< 4.29	ug/Kg	1/10/2020	16:58
Methyl acetate	< 4.29	ug/Kg	1/10/2020	16:58
Methyl tert-butyl Ether	< 4.29	ug/Kg	1/10/2020	16:58
Methylcyclohexane	< 4.29	ug/Kg	1/10/2020	16:58
Methylene chloride	< 10.7	ug/Kg	1/10/2020	16:58
Naphthalene	< 10.7	ug/Kg	1/10/2020	16:58
n-Butylbenzene	< 4.29	ug/Kg	1/10/2020	16:58
n-Propylbenzene	< 4.29	ug/Kg	1/10/2020	16:58

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 16 - 1-3 Feet
Lab Sample ID: 200134-02 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

o-Xylene	< 4.29	ug/Kg		1/10/2020	16:58
p-Isopropyltoluene	< 4.29	ug/Kg		1/10/2020	16:58
sec-Butylbenzene	< 4.29	ug/Kg		1/10/2020	16:58
Styrene	< 10.7	ug/Kg		1/10/2020	16:58
tert-Butylbenzene	< 4.29	ug/Kg		1/10/2020	16:58
Tetrachloroethene	< 4.29	ug/Kg		1/10/2020	16:58
Toluene	< 4.29	ug/Kg		1/10/2020	16:58
trans-1,2-Dichloroethene	**2.85**	ug/Kg	J	1/10/2020	16:58
trans-1,3-Dichloropropene	< 4.29	ug/Kg		1/10/2020	16:58
Trichloroethene	< 4.29	ug/Kg		1/10/2020	16:58
Trichlorofluoromethane	< 4.29	ug/Kg		1/10/2020	16:58
Vinyl chloride	< 4.29	ug/Kg		1/10/2020	16:58

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**117**	67.9 - 146		1/10/2020	16:58
4-Bromofluorobenzene	**59.6**	64.6 - 127	*	1/10/2020	16:58
Pentafluorobenzene	**110**	85.5 - 113		1/10/2020	16:58
Toluene-D8	**89.4**	83.9 - 114		1/10/2020	16:58

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x67779.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 16 - 1-3 Feet
Lab Sample ID: 200134-02 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.502	mg/Kg		1/15/2020

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 1/10/2020

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	TP Location 16 - 1-3 Feet		
Lab Sample ID:	200134-02	**Date Sampled:**	1/8/2020
Matrix:	Soil	**Date Received:**	1/9/2020

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**93.9**	%		1/10/2020

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 17 - 3-4 Feet, Native
Lab Sample ID: 200134-03 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**3.55**	mg/Kg		1/15/2020 16:40
Barium	**171**	mg/Kg		1/15/2020 16:40
Beryllium	**0.897**	mg/Kg		1/15/2020 16:40
Cadmium	**0.523**	mg/Kg		1/15/2020 16:40
Chromium	**25.1**	mg/Kg		1/15/2020 16:40
Copper	**23.3**	mg/Kg		1/15/2020 16:40
Lead	**11.7**	mg/Kg		1/15/2020 16:40
Manganese	**520**	mg/Kg		1/15/2020 16:40
Nickel	**28.8**	mg/Kg		1/15/2020 16:40
Selenium	**0.673**	mg/Kg	J	1/15/2020 16:40
Silver	< 1.15	mg/Kg		1/16/2020 09:26
Zinc	**64.5**	mg/Kg		1/15/2020 16:40

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 1/14/2020
Data File: 200115C

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	TP Location 17 - 3-4 Feet, Native		
Lab Sample ID:	200134-03	**Date Sampled:**	1/8/2020
Matrix:	Soil	**Date Received:**	1/9/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0145**	mg/Kg		1/13/2020 10:47

Method Reference(s): EPA 7471B
Preparation Date: 1/10/2020
Data File: Hg200113A

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 17 - 3-4 Feet, Native
Lab Sample ID: 200134-03 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0322	mg/Kg		1/10/2020 16:48
PCB-1221	< 0.0322	mg/Kg		1/10/2020 16:48
PCB-1232	< 0.0322	mg/Kg		1/10/2020 16:48
PCB-1242	< 0.0322	mg/Kg		1/10/2020 16:48
PCB-1248	< 0.0322	mg/Kg		1/10/2020 16:48
PCB-1254	< 0.0322	mg/Kg		1/10/2020 16:48
PCB-1260	< 0.0322	mg/Kg		1/10/2020 16:48
PCB-1262	< 0.0322	mg/Kg		1/10/2020 16:48
PCB-1268	< 0.0322	mg/Kg		1/10/2020 16:48

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**42.5**	18.3 - 89.6		1/10/2020 16:48

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 1/10/2020

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 17 - 3-4 Feet, Native
Lab Sample ID: 200134-03 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.22	ug/Kg		1/10/2020 18:45
4,4-DDE	< 3.22	ug/Kg		1/10/2020 18:45
4,4-DDT	< 3.22	ug/Kg		1/10/2020 18:45
Aldrin	< 3.22	ug/Kg		1/10/2020 18:45
alpha-BHC	< 3.22	ug/Kg		1/10/2020 18:45
beta-BHC	< 3.22	ug/Kg		1/10/2020 18:45
cis-Chlordane	< 3.22	ug/Kg		1/10/2020 18:45
delta-BHC	< 3.22	ug/Kg		1/10/2020 18:45
Dieldrin	< 3.22	ug/Kg		1/10/2020 18:45
Endosulfan I	< 3.22	ug/Kg		1/10/2020 18:45
Endosulfan II	< 3.22	ug/Kg		1/10/2020 18:45
Endosulfan Sulfate	< 3.22	ug/Kg		1/10/2020 18:45
Endrin	< 3.22	ug/Kg		1/10/2020 18:45
Endrin Aldehyde	< 3.22	ug/Kg		1/10/2020 18:45
Endrin Ketone	< 3.22	ug/Kg		1/10/2020 18:45
gamma-BHC (Lindane)	< 3.22	ug/Kg		1/10/2020 18:45
Heptachlor	< 3.22	ug/Kg		1/10/2020 18:45
Heptachlor Epoxide	< 3.22	ug/Kg		1/10/2020 18:45
Methoxychlor	< 3.22	ug/Kg		1/10/2020 18:45
Toxaphene	< 32.2	ug/Kg		1/10/2020 18:45
trans-Chlordane	< 3.22	ug/Kg		1/10/2020 18:45

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 17 - 3-4 Feet, Native

Lab Sample ID: 200134-03 **Date Sampled:** 1/8/2020

Matrix: Soil **Date Received:** 1/9/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
Decachlorobiphenyl (1)	**9.76**	30.7 - 111	*	1/10/2020	18:45
Tetrachloro-m-xylene (1)	**66.0**	34.7 - 87.3		1/10/2020	18:45

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 1/10/2020

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 17 - 3-4 Feet, Native
Lab Sample ID: 200134-03 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 347	ug/Kg		1/15/2020 02:36
1,2,4,5-Tetrachlorobenzene	< 347	ug/Kg		1/15/2020 02:36
1,2,4-Trichlorobenzene	< 347	ug/Kg		1/15/2020 02:36
1,2-Dichlorobenzene	< 347	ug/Kg		1/15/2020 02:36
1,3-Dichlorobenzene	< 347	ug/Kg		1/15/2020 02:36
1,4-Dichlorobenzene	< 347	ug/Kg		1/15/2020 02:36
2,2-Oxybis (1-chloropropane)	< 347	ug/Kg		1/15/2020 02:36
2,3,4,6-Tetrachlorophenol	< 347	ug/Kg		1/15/2020 02:36
2,4,5-Trichlorophenol	< 347	ug/Kg		1/15/2020 02:36
2,4,6-Trichlorophenol	< 347	ug/Kg		1/15/2020 02:36
2,4-Dichlorophenol	< 347	ug/Kg		1/15/2020 02:36
2,4-Dimethylphenol	< 347	ug/Kg		1/15/2020 02:36
2,4-Dinitrophenol	< 1390	ug/Kg		1/15/2020 02:36
2,4-Dinitrotoluene	< 347	ug/Kg		1/15/2020 02:36
2,6-Dinitrotoluene	< 347	ug/Kg		1/15/2020 02:36
2-Chloronaphthalene	< 347	ug/Kg		1/15/2020 02:36
2-Chlorophenol	< 347	ug/Kg		1/15/2020 02:36
2-Methylnapthalene	< 347	ug/Kg		1/15/2020 02:36
2-Methylphenol	< 347	ug/Kg		1/15/2020 02:36
2-Nitroaniline	< 347	ug/Kg		1/15/2020 02:36
2-Nitrophenol	< 347	ug/Kg		1/15/2020 02:36
3&4-Methylphenol	< 347	ug/Kg		1/15/2020 02:36
3,3'-Dichlorobenzidine	< 347	ug/Kg		1/15/2020 02:36

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 17 - 3-4 Feet, Native
Lab Sample ID: 200134-03 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

3-Nitroaniline	< 347	ug/Kg	1/15/2020	02:36
4,6-Dinitro-2-methylphenol	< 694	ug/Kg	1/15/2020	02:36
4-Bromophenyl phenyl ether	< 347	ug/Kg	1/15/2020	02:36
4-Chloro-3-methylphenol	< 347	ug/Kg	1/15/2020	02:36
4-Chloroaniline	< 347	ug/Kg	1/15/2020	02:36
4-Chlorophenyl phenyl ether	< 347	ug/Kg	1/15/2020	02:36
4-Nitroaniline	< 347	ug/Kg	1/15/2020	02:36
4-Nitrophenol	< 347	ug/Kg	1/15/2020	02:36
Acenaphthene	< 347	ug/Kg	1/15/2020	02:36
Acenaphthylene	< 347	ug/Kg	1/15/2020	02:36
Acetophenone	< 347	ug/Kg	1/15/2020	02:36
Anthracene	< 347	ug/Kg	1/15/2020	02:36
Atrazine	< 347	ug/Kg	1/15/2020	02:36
Benzaldehyde	< 347	ug/Kg	1/15/2020	02:36
Benzo (a) anthracene	< 347	ug/Kg	1/15/2020	02:36
Benzo (a) pyrene	< 347	ug/Kg	1/15/2020	02:36
Benzo (b) fluoranthene	< 347	ug/Kg	1/15/2020	02:36
Benzo (g,h,i) perylene	< 347	ug/Kg	1/15/2020	02:36
Benzo (k) fluoranthene	< 347	ug/Kg	1/15/2020	02:36
Bis (2-chloroethoxy) methane	< 347	ug/Kg	1/15/2020	02:36
Bis (2-chloroethyl) ether	< 347	ug/Kg	1/15/2020	02:36
Bis (2-ethylhexyl) phthalate	< 347	ug/Kg	1/15/2020	02:36
Butylbenzylphthalate	< 347	ug/Kg	1/15/2020	02:36
Caprolactam	< 347	ug/Kg	1/15/2020	02:36
Carbazole	< 347	ug/Kg	1/15/2020	02:36

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 17 - 3-4 Feet, Native
Lab Sample ID: 200134-03 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Chrysene	< 347	ug/Kg	1/15/2020	02:36
Dibenz (a,h) anthracene	< 347	ug/Kg	1/15/2020	02:36
Dibenzofuran	< 347	ug/Kg	1/15/2020	02:36
Diethyl phthalate	< 347	ug/Kg	1/15/2020	02:36
Dimethyl phthalate	< 347	ug/Kg	1/15/2020	02:36
Di-n-butyl phthalate	< 347	ug/Kg	1/15/2020	02:36
Di-n-octylphthalate	< 347	ug/Kg	1/15/2020	02:36
Fluoranthene	< 347	ug/Kg	1/15/2020	02:36
Fluorene	< 347	ug/Kg	1/15/2020	02:36
Hexachlorobenzene	< 347	ug/Kg	1/15/2020	02:36
Hexachlorobutadiene	< 347	ug/Kg	1/15/2020	02:36
Hexachlorocyclopentadiene	< 1390	ug/Kg	1/15/2020	02:36
Hexachloroethane	< 347	ug/Kg	1/15/2020	02:36
Indeno (1,2,3-cd) pyrene	< 347	ug/Kg	1/15/2020	02:36
Isophorone	< 347	ug/Kg	1/15/2020	02:36
Naphthalene	< 347	ug/Kg	1/15/2020	02:36
Nitrobenzene	< 347	ug/Kg	1/15/2020	02:36
N-Nitroso-di-n-propylamine	< 347	ug/Kg	1/15/2020	02:36
N-Nitrosodiphenylamine	< 347	ug/Kg	1/15/2020	02:36
Pentachlorophenol	< 694	ug/Kg	1/15/2020	02:36
Phenanthrene	< 347	ug/Kg	1/15/2020	02:36
Phenol	< 347	ug/Kg	1/15/2020	02:36
Pyrene	< 347	ug/Kg	1/15/2020	02:36

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 17 - 3-4 Feet, Native

Lab Sample ID: 200134-03 **Date Sampled:** 1/8/2020

Matrix: Soil **Date Received:** 1/9/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**44.8**	35.1 - 89.5		1/15/2020	02:36
2-Fluorobiphenyl	**58.6**	37.7 - 81.4		1/15/2020	02:36
2-Fluorophenol	**57.5**	40.2 - 77		1/15/2020	02:36
Nitrobenzene-d5	**55.2**	36.2 - 78.4		1/15/2020	02:36
Phenol-d5	**58.4**	41.2 - 77.1		1/15/2020	02:36
Terphenyl-d14	**62.2**	39.8 - 97.5		1/15/2020	02:36

Method Reference(s): EPA 8270D
EPA 3546

Preparation Date: 1/10/2020

Data File: B43797.D

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 17 - 3-4 Feet, Native
Lab Sample ID: 200134-03 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.76	ug/Kg		1/10/2020 17:20
1,1,2,2-Tetrachloroethane	< 4.76	ug/Kg		1/10/2020 17:20
1,1,2-Trichloroethane	< 4.76	ug/Kg		1/10/2020 17:20
1,1-Dichloroethane	< 4.76	ug/Kg		1/10/2020 17:20
1,1-Dichloroethene	< 4.76	ug/Kg		1/10/2020 17:20
1,2,3-Trichlorobenzene	< 11.9	ug/Kg		1/10/2020 17:20
1,2,4-Trichlorobenzene	< 11.9	ug/Kg		1/10/2020 17:20
1,2,4-Trimethylbenzene	< 4.76	ug/Kg		1/10/2020 17:20
1,2-Dibromo-3-Chloropropane	< 23.8	ug/Kg		1/10/2020 17:20
1,2-Dibromoethane	< 4.76	ug/Kg		1/10/2020 17:20
1,2-Dichlorobenzene	< 4.76	ug/Kg		1/10/2020 17:20
1,2-Dichloroethane	< 4.76	ug/Kg		1/10/2020 17:20
1,2-Dichloropropane	< 4.76	ug/Kg		1/10/2020 17:20
1,3,5-Trimethylbenzene	< 4.76	ug/Kg		1/10/2020 17:20
1,3-Dichlorobenzene	< 4.76	ug/Kg		1/10/2020 17:20
1,4-Dichlorobenzene	< 4.76	ug/Kg		1/10/2020 17:20
1,4-Dioxane	< 47.6	ug/Kg		1/10/2020 17:20
2-Butanone	< 23.8	ug/Kg		1/10/2020 17:20
2-Hexanone	< 11.9	ug/Kg		1/10/2020 17:20
4-Methyl-2-pentanone	< 11.9	ug/Kg		1/10/2020 17:20
Acetone	< 23.8	ug/Kg		1/10/2020 17:20
Benzene	< 4.76	ug/Kg		1/10/2020 17:20
Bromochloromethane	< 11.9	ug/Kg		1/10/2020 17:20

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 17 - 3-4 Feet, Native
Lab Sample ID: 200134-03 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

Bromodichloromethane	< 4.76	ug/Kg	1/10/2020	17:20
Bromoform	< 11.9	ug/Kg	1/10/2020	17:20
Bromomethane	< 4.76	ug/Kg	1/10/2020	17:20
Carbon disulfide	< 4.76	ug/Kg	1/10/2020	17:20
Carbon Tetrachloride	< 4.76	ug/Kg	1/10/2020	17:20
Chlorobenzene	< 4.76	ug/Kg	1/10/2020	17:20
Chloroethane	< 4.76	ug/Kg	1/10/2020	17:20
Chloroform	< 4.76	ug/Kg	1/10/2020	17:20
Chloromethane	< 4.76	ug/Kg	1/10/2020	17:20
cis-1,2-Dichloroethene	< 4.76	ug/Kg	1/10/2020	17:20
cis-1,3-Dichloropropene	< 4.76	ug/Kg	1/10/2020	17:20
Cyclohexane	< 23.8	ug/Kg	1/10/2020	17:20
Dibromochloromethane	< 4.76	ug/Kg	1/10/2020	17:20
Dichlorodifluoromethane	< 4.76	ug/Kg	1/10/2020	17:20
Ethylbenzene	< 4.76	ug/Kg	1/10/2020	17:20
Freon 113	< 4.76	ug/Kg	1/10/2020	17:20
Isopropylbenzene	< 4.76	ug/Kg	1/10/2020	17:20
m,p-Xylene	< 4.76	ug/Kg	1/10/2020	17:20
Methyl acetate	< 4.76	ug/Kg	1/10/2020	17:20
Methyl tert-butyl Ether	< 4.76	ug/Kg	1/10/2020	17:20
Methylcyclohexane	< 4.76	ug/Kg	1/10/2020	17:20
Methylene chloride	< 11.9	ug/Kg	1/10/2020	17:20
Naphthalene	< 11.9	ug/Kg	1/10/2020	17:20
n-Butylbenzene	< 4.76	ug/Kg	1/10/2020	17:20
n-Propylbenzene	< 4.76	ug/Kg	1/10/2020	17:20

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: TP Location 17 - 3-4 Feet, Native
Lab Sample ID: 200134-03 **Date Sampled:** 1/8/2020
Matrix: Soil **Date Received:** 1/9/2020

o-Xylene	< 4.76	ug/Kg	1/10/2020	17:20
p-Isopropyltoluene	< 4.76	ug/Kg	1/10/2020	17:20
sec-Butylbenzene	< 4.76	ug/Kg	1/10/2020	17:20
Styrene	< 11.9	ug/Kg	1/10/2020	17:20
tert-Butylbenzene	< 4.76	ug/Kg	1/10/2020	17:20
Tetrachloroethene	< 4.76	ug/Kg	1/10/2020	17:20
Toluene	< 4.76	ug/Kg	1/10/2020	17:20
trans-1,2-Dichloroethene	< 4.76	ug/Kg	1/10/2020	17:20
trans-1,3-Dichloropropene	< 4.76	ug/Kg	1/10/2020	17:20
Trichloroethene	**38.3**	ug/Kg	1/10/2020	17:20
Trichlorofluoromethane	< 4.76	ug/Kg	1/10/2020	17:20
Vinyl chloride	< 4.76	ug/Kg	1/10/2020	17:20

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**122**	67.9 - 146		1/10/2020	17:20
4-Bromofluorobenzene	**68.2**	64.6 - 127		1/10/2020	17:20
Pentafluorobenzene	**98.4**	85.5 - 113		1/10/2020	17:20
Toluene-D8	**84.1**	83.9 - 114		1/10/2020	17:20

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x67780.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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Partial

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	TP Location 17 - 3-4 Feet, Native		
Lab Sample ID:	200134-03	**Date Sampled:**	1/8/2020
Matrix:	Soil	**Date Received:**	1/9/2020

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.615	mg/Kg		1/15/2020

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 1/10/2020

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Report Prepared Thursday, January 16, 2020

Partial

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200134

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	TP Location 17 - 3-4 Feet, Native		
Lab Sample ID:	200134-03	**Date Sampled:**	1/8/2020
Matrix:	Soil	**Date Received:**	1/9/2020

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**80.5**	%		1/10/2020

Method Reference(s): Par%M

ELAP does not offer this test for approval as part of their laboratory certification program.

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Report Prepared Thursday, January 16, 2020

Partial

ALPHA ANALYTICAL

ANALYTICAL REPORT

Lab Number:	L2000901
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Jane Daloia
Phone:	(585) 647-2530
Project Name:	57 TONAWANDA
Project Number:	57 TONAWANDA
Report Date:	01/16/20

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Partial

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L2000901
Report Date: 01/16/20

Partial

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2000901-01	TP LOCATION 14 (8-9 FT)	SOIL	Not Specified	01/08/20 08:50	01/09/20
L2000901-02	TP LOCATION 16 (1-3 FT)	SOIL	Not Specified	01/08/20 10:10	01/09/20
L2000901-03	TP LOCATION 17 (3-4 FT)	SOIL	Not Specified	01/08/20 11:00	01/09/20

Project Name:	57 TONAWANDA	**Lab Number:**	L2000901
Project Number:	57 TONAWANDA	**Report Date:**	01/16/20

Case Narrative

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

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

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

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

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

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

Partial

Project Name:	57 TONAWANDA	**Lab Number:**	L2000901
Project Number:	57 TONAWANDA	**Report Date:**	01/16/20

Case Narrative (continued)

Report Submission

January 16, 2020: This is a preliminary report.

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

Hexavalent Chromium

The WG1329515-4 Insoluble MS recovery for hexavalent chromium (55%), performed on L2000901-01, is outside the acceptance criteria. The Soluble MS recovery for hexavalent chromium (65%) was also outside criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 87%.

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

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 01/16/20

Partial

ORGANICS

Partial

PESTICIDES

Partial

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L2000901
Report Date: 01/16/20

SAMPLE RESULTS

Lab ID: L2000901-01
Client ID: TP LOCATION 14 (8-9 FT)
Sample Location: Not Specified

Date Collected: 01/08/20 08:50
Date Received: 01/09/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 01/14/20 16:57
Analyst: JMC
Percent Solids: 88%
Methylation Date: 01/13/20 20:08

Extraction Method: EPA 8151A
Extraction Date: 01/11/20 12:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	190	5.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	70		30-150	B

Partial

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L2000901
Report Date: 01/16/20

SAMPLE RESULTS

Lab ID: L2000901-02
Client ID: TP LOCATION 16 (1-3 FT)
Sample Location: Not Specified

Date Collected: 01/08/20 10:10
Date Received: 01/09/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 01/14/20 17:55
Analyst: JMC
Percent Solids: 77%
Methylation Date: 01/13/20 20:08

Extraction Method: EPA 8151A
Extraction Date: 01/11/20 12:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	2.13	0.057	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	102		30-150	A
DCAA	91		30-150	B

Partial

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA
Lab Number: L2000901
Report Date: 01/16/20

SAMPLE RESULTS

Lab ID: L2000901-03
Client ID: TP LOCATION 17 (3-4 FT)
Sample Location: Not Specified

Date Collected: 01/08/20 11:00
Date Received: 01/09/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 01/14/20 18:13
Analyst: JMC
Percent Solids: 80%
Methylation Date: 01/13/20 20:08

Extraction Method: EPA 8151A
Extraction Date: 01/11/20 12:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	206	5.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	89		30-150	A
DCAA	81		30-150	B

Partial

INORGANICS
&
MISCELLANEOUS

Partial

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L2000901
Report Date: 01/16/20

SAMPLE RESULTS

Lab ID: L2000901-01
Client ID: TP LOCATION 14 (8-9 FT)
Sample Location: Not Specified

Date Collected: 01/08/20 08:50
Date Received: 01/09/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	01/10/20 14:14	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.913	0.183	1	01/13/20 13:15	01/14/20 05:25	1,7196A	DR

Partial

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L2000901
Report Date: 01/16/20

SAMPLE RESULTS

Lab ID: L2000901-02
Client ID: TP LOCATION 16 (1-3 FT)
Sample Location: Not Specified

Date Collected: 01/08/20 10:10
Date Received: 01/09/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.0		%	0.100	NA	1	-	01/10/20 14:14	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.04	0.208	1	01/13/20 13:15	01/14/20 05:25	1,7196A	DR

Partial

Project Name: 57 TONAWANDA
Project Number: 57 TONAWANDA

Lab Number: L2000901
Report Date: 01/16/20

SAMPLE RESULTS

Lab ID: L2000901-03
Client ID: TP LOCATION 17 (3-4 FT)
Sample Location: Not Specified

Date Collected: 01/08/20 11:00
Date Received: 01/09/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.8		%	0.100	NA	1	-	01/10/20 14:14	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.00	0.200	1	01/13/20 13:15	01/14/20 05:25	1,7196A	DR

Partial

Project Name:	57 TONAWANDA	**Lab Number:**	L2000901
Project Number:	57 TONAWANDA	**Report Date:**	01/16/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Partial

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers

Partial

Project Name:	57 TONAWANDA	**Lab Number:**	L2000901
Project Number:	57 TONAWANDA	**Report Date:**	01/16/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Partial

Project Name:	57 TONAWANDA	**Lab Number:**	L2000901
Project Number:	57 TONAWANDA	**Report Date:**	01/16/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Partial

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

Partial

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

Partial

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Partial

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		
CLIENT:	Paradigm Environmental	CLIENT:	Same	LAB PROJECT ID: L2000901
ADDRESS:	179 Lake Avenue	ADDRESS:		
CITY:	Rochester STATE: NY ZIP 14608	CITY:	STATE: ZIP:	Results by 3 PM
PHONE:	585-647-2530	PHONE:		Email:
ATTN:	reporting@paradigmenv.com	ATTN:	accpay@paradigmenv.com	

PROJECT REFERENCE

57 Tonawanda

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Silvex	Hex Chrome	PFAS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1/8/20	8:50		X	TP Location 14 (8-9 ft)	SO	3	X	X	X		
1/8/20	10:10		X	TP Location 16 (1-3 ft)	SO	3	X	X	X		
1/8/20	11:00		X	TP Location 17 (3-4 ft)	SO	3	X	X	X		

Turnaround Time		Report Supplements			
Standard 5 day	X	None Required		None Required	
10 day		Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	X
Rush 2 day		Category B	X		
Rush 1 day					
Other		Other		Other EDD	

Client Sampled By — 1/8/2020 Date/Time

Relinquished By — 1/9/2020 9:40 Date/Time

Received By — Jocelyn Tilley (AAL) 1/9/2020 9:40 Date/Time

~~Received @ Lab By~~ — Jocelyn Tilley (AAL) 1/9/2020 9:40 Date/Time

RELINQUISHED BY — 1/10/20 00:40

Partial

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM

REPORT TO:		INVOICE TO:		
CLIENT:	BE3 CORP	CLIENT:		LAB PROJECT ID: 200134
ADDRESS:	1270 NIAGARA ST	ADDRESS:		Quotation #:
CITY:	BUFFALO STATE: NY ZIP: 14213	CITY: STATE: ZIP:		Email:
PHONE:	716-308-8220	PHONE:		
ATTN:	PETE GORTON	ATTN:		

PROJECT REFERENCE

57 TONAWANDA

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8270 VOCs	8270 SVOCs	8270 METALS	8270 PCBs	PEST	TCL	SILVEX	HEX CHROM	PCAS	90 SOLIDS	1-4 DIOXANE	REMARKS	PARADIGM LAB SAMPLE NUMBER
1-8-2020	850		X	TP LOCATION 14 - 8-9 Feet	SO	5	X	X	X	X	X	X	X	X	X	X			01
↓	1010		X	TP LOCATION 16 - 1-3 Feet	↓	5	X	X	X	X	X	X	X	X	X	X			02
↓	1100		X	TP LOCATION 17 - 3-4 Feet	↓	5	X	X	X	X	X	X	X	X	X	X		NATIVE	03
																		Subcontract directly to sub lab mw 1/9/2020	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☒	None Required	☐	None Required	☐
10 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Date Needed _____ please indicate date needed:		Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

Sampled By: PETER J. GORTON A/C	Date/Time: 1-8-2020	850-1100
Relinquished By:	Date/Time: 1-8-2020	310
Received By:	Date/Time: 1-8-2020	
Received @ Lab By:	Date/Time: 1/9/2020	1541

Total Cost: ☐ P.I.F. ☐

4 °C iced 1/9/2020 15:08 No custody seals

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

Partial

Chain of Custody Supplement

Client: BE3 **Completed by:** Molly Kail

Lab Project ID: 200134 **Date:** 1/9/2020

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X	5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		met
Comments	4°C i cul		
Compliant Sample Quantity/Type	X		
Comments	Silvex, Hex Chrom, PFAS sent directly to sub-lab		

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Partial

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200240

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-04 (12-13')
Lab Sample ID: 200240-01 **Date Sampled:** 1/14/2020
Matrix: Soil **Date Received:** 1/15/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2080	ug/Kg		1/17/2020 13:34
1,1,2,2-Tetrachloroethane	< 2080	ug/Kg		1/17/2020 13:34
1,1,2-Trichloroethane	< 2080	ug/Kg		1/17/2020 13:34
1,1-Dichloroethane	< 2080	ug/Kg		1/17/2020 13:34
1,1-Dichloroethene	< 2080	ug/Kg		1/17/2020 13:34
1,2,3-Trichlorobenzene	< 5190	ug/Kg		1/17/2020 13:34
1,2,4-Trichlorobenzene	< 5190	ug/Kg		1/17/2020 13:34
1,2-Dibromo-3-Chloropropane	< 10400	ug/Kg		1/17/2020 13:34
1,2-Dibromoethane	< 2080	ug/Kg		1/17/2020 13:34
1,2-Dichlorobenzene	< 2080	ug/Kg		1/17/2020 13:34
1,2-Dichloroethane	< 2080	ug/Kg		1/17/2020 13:34
1,2-Dichloropropane	< 2080	ug/Kg		1/17/2020 13:34
1,3-Dichlorobenzene	< 2080	ug/Kg		1/17/2020 13:34
1,4-Dichlorobenzene	< 2080	ug/Kg		1/17/2020 13:34
1,4-Dioxane	< 20800	ug/Kg		1/17/2020 13:34
2-Butanone	< 10400	ug/Kg		1/17/2020 13:34
2-Hexanone	< 5190	ug/Kg		1/17/2020 13:34
4-Methyl-2-pentanone	< 5190	ug/Kg		1/17/2020 13:34
Acetone	< 10400	ug/Kg		1/17/2020 13:34
Benzene	< 2080	ug/Kg		1/17/2020 13:34
Bromochloromethane	< 5190	ug/Kg		1/17/2020 13:34
Bromodichloromethane	< 2080	ug/Kg		1/17/2020 13:34
Bromoform	< 5190	ug/Kg		1/17/2020 13:34

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200240

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-04 (12-13')
Lab Sample ID: 200240-01 **Date Sampled:** 1/14/2020
Matrix: Soil **Date Received:** 1/15/2020

Bromomethane	< 2080	ug/Kg	1/17/2020	13:34
Carbon disulfide	< 2080	ug/Kg	1/17/2020	13:34
Carbon Tetrachloride	< 2080	ug/Kg	1/17/2020	13:34
Chlorobenzene	< 2080	ug/Kg	1/17/2020	13:34
Chloroethane	< 2080	ug/Kg	1/17/2020	13:34
Chloroform	< 2080	ug/Kg	1/17/2020	13:34
Chloromethane	< 2080	ug/Kg	1/17/2020	13:34
cis-1,2-Dichloroethene	< 2080	ug/Kg	1/17/2020	13:34
cis-1,3-Dichloropropene	< 2080	ug/Kg	1/17/2020	13:34
Cyclohexane	< 10400	ug/Kg	1/17/2020	13:34
Dibromochloromethane	< 2080	ug/Kg	1/17/2020	13:34
Dichlorodifluoromethane	< 2080	ug/Kg	1/17/2020	13:34
Ethylbenzene	< 2080	ug/Kg	1/17/2020	13:34
Freon 113	< 2080	ug/Kg	1/17/2020	13:34
Isopropylbenzene	< 2080	ug/Kg	1/17/2020	13:34
m,p-Xylene	< 2080	ug/Kg	1/17/2020	13:34
Methyl acetate	< 2080	ug/Kg	1/17/2020	13:34
Methyl tert-butyl Ether	< 2080	ug/Kg	1/17/2020	13:34
Methylcyclohexane	< 2080	ug/Kg	1/17/2020	13:34
Methylene chloride	< 5190	ug/Kg	1/17/2020	13:34
o-Xylene	< 2080	ug/Kg	1/17/2020	13:34
Styrene	< 5190	ug/Kg	1/17/2020	13:34
Tetrachloroethene	< 2080	ug/Kg	1/17/2020	13:34
Toluene	< 2080	ug/Kg	1/17/2020	13:34
trans-1,2-Dichloroethene	< 2080	ug/Kg	1/17/2020	13:34

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200240

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-04 (12-13')
Lab Sample ID: 200240-01 **Date Sampled:** 1/14/2020
Matrix: Soil **Date Received:** 1/15/2020

trans-1,3-Dichloropropene	< 2080	ug/Kg	1/17/2020	13:34
Trichloroethene	**36100**	ug/Kg	1/17/2020	13:34
Trichlorofluoromethane	< 2080	ug/Kg	1/17/2020	13:34
Vinyl chloride	< 2080	ug/Kg	1/17/2020	13:34

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**111**	67.9 - 146		1/17/2020	13:34
4-Bromofluorobenzene	**73.8**	64.6 - 127		1/17/2020	13:34
Pentafluorobenzene	**108**	85.5 - 113		1/17/2020	13:34
Toluene-D8	**93.6**	83.9 - 114		1/17/2020	13:34

Method Reference(s): EPA 8260C
EPA 5035A -- H
Data File: x67937.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		
CLIENT:	BE3 Corp	CLIENT:		LAB PROJECT ID: 20 0240
ADDRESS:	1270 Niagara St	ADDRESS:		
CITY:	Buffalo STATE: NY ZIP: 1421	CITY: STATE: ZIP:		Quotation #:
PHONE:		PHONE:		Email:
ATTN:	Pete Gorton	ATTN:		

PROJECT REFERENCE

57 Tonawanda

Matrix Codes:

AQ - Aqueous Liquid **NQ** - Non-Aqueous Liquid **WA** - Water **WG** - Groundwater **DW** - Drinking Water **WW** - Wastewater **SO** - Soil **SL** - Sludge **SD** - Solid **PT** - Paint **WP** - Wipe **CK** - Caulk **OL** - Oil **AR** - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL Volatiles	REMARKS	PARADIGM LAB SAMPLE NUMBER
1-14-20	1220		X	MW-04 (12-13')	SO	1	X		01

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	☐	None Required	☐	None Required ☐
10 day	☒	Batch QC	☐	Basic EDD ☒
Rush 3 day	☐	Category A	☐	NYSDEC EDD ☒
Rush 2 day	☐	Category B	☒	
Rush 1 day	☐			
Date Needed _____ please indicate date needed:		Other please indicate package needed:	☐	Other EDD please indicate EDD needed: ☐

John Boyd	1/14/2020	Total Cost:
Sampled By	Date/Time	
John Boyd	1/14/2020	
Relinquished By	Date/Time	
John Hoffa	1/14/2020	
Received By	Date/Time	P.I.F.
2P	1/15/2020 14:00	
Received @ Lab By	Date/Time	

3°C iced 1/15/2020 13:27

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

No Custody Seal. GP 1/15/2020

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: BE3 **Completed by:** Glenn Pezzulo

Lab Project ID: 200240 **Date:** 1/15/2020

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X	X 5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		
Comments	3°C iced		
Compliant Sample Quantity/Type	X		
Comments			

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-1 0-4 FT		
Lab Sample ID:	201276-01	**Date Sampled:**	3/18/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**17.3**	mg/Kg		3/26/2020 12:17
Barium	**132**	mg/Kg		3/26/2020 12:17
Beryllium	< 0.286	mg/Kg		3/26/2020 12:17
Cadmium	**2.52**	mg/Kg		3/26/2020 12:17
Chromium	**20.7**	mg/Kg		3/26/2020 12:17
Copper	**3390**	mg/Kg		3/27/2020 13:43
Lead	**2240**	mg/Kg		3/26/2020 12:17
Manganese	**518**	mg/Kg		3/26/2020 12:17
Nickel	**36.7**	mg/Kg		3/26/2020 12:17
Selenium	**2.98**	mg/Kg		3/26/2020 12:17
Silver	**2.44**	mg/Kg		3/26/2020 12:17
Zinc	**4940**	mg/Kg		3/27/2020 13:43

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 3/26/2020
Data File: 200326B

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.343**	mg/Kg		3/25/2020 11:48

Method Reference(s): EPA 7471B
Preparation Date: 3/24/2020
Data File: Hg200325A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0323	mg/Kg		3/24/2020 14:12
PCB-1221	< 0.0323	mg/Kg		3/24/2020 14:12
PCB-1232	< 0.0323	mg/Kg		3/24/2020 14:12
PCB-1242	< 0.0323	mg/Kg		3/24/2020 14:12

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier: SSB-1 0-4 FT
Lab Sample ID: 201276-01 **Date Sampled:** 3/18/2020
Matrix: Soil **Date Received:** 3/23/2020

PCB-1248	< 0.0323	mg/Kg			3/24/2020 14:12
PCB-1254	< 0.0323	mg/Kg			3/24/2020 14:12
PCB-1260	< 0.0323	mg/Kg			3/24/2020 14:12
PCB-1262	< 0.0323	mg/Kg			3/24/2020 14:12
PCB-1268	< 0.0323	mg/Kg			3/24/2020 14:12

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**47.2**	18.3 - 89.6		3/24/2020 14:12

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 3/24/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.23	ug/Kg	L	3/26/2020 12:37
4,4-DDE	< 3.23	ug/Kg	L	3/26/2020 12:37
4,4-DDT	< 3.23	ug/Kg		3/26/2020 12:37
Aldrin	< 3.23	ug/Kg	L	3/26/2020 12:37
alpha-BHC	< 3.23	ug/Kg		3/26/2020 12:37
beta-BHC	< 3.23	ug/Kg	L	3/26/2020 12:37
cis-Chlordane	< 3.23	ug/Kg	L	3/26/2020 12:37
delta-BHC	< 3.23	ug/Kg		3/26/2020 12:37
Dieldrin	< 3.23	ug/Kg	L	3/26/2020 12:37
Endosulfan I	< 3.23	ug/Kg		3/26/2020 12:37
Endosulfan II	< 3.23	ug/Kg		3/26/2020 12:37
Endosulfan Sulfate	**1.87**	ug/Kg	JP	3/26/2020 12:37
Endrin	< 3.23	ug/Kg		3/26/2020 12:37
Endrin Aldehyde	< 3.23	ug/Kg		3/26/2020 12:37
Endrin Ketone	< 3.23	ug/Kg	L	3/26/2020 12:37
gamma-BHC (Lindane)	< 3.23	ug/Kg	L	3/26/2020 12:37
Heptachlor	< 3.23	ug/Kg		3/26/2020 12:37
Heptachlor Epoxide	< 3.23	ug/Kg	L	3/26/2020 12:37

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-1 0-4 FT		
Lab Sample ID:	201276-01	**Date Sampled:**	3/18/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Methoxychlor	< 3.23	ug/Kg			3/26/2020 12:37
Toxaphene	< 32.3	ug/Kg			3/26/2020 12:37
trans-Chlordane	< 3.23	ug/Kg		L	3/26/2020 12:37

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**130**	30.7 - 111	*	3/26/2020 12:37
Tetrachloro-m-xylene (1)	**68.6**	34.7 - 87.3		3/26/2020 12:37

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 3/24/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 323	ug/Kg		3/24/2020 22:29
1,2,4,5-Tetrachlorobenzene	< 323	ug/Kg		3/24/2020 22:29
1,2,4-Trichlorobenzene	< 323	ug/Kg		3/24/2020 22:29
1,2-Dichlorobenzene	< 323	ug/Kg		3/24/2020 22:29
1,3-Dichlorobenzene	< 323	ug/Kg		3/24/2020 22:29
1,4-Dichlorobenzene	< 323	ug/Kg		3/24/2020 22:29
2,2-Oxybis (1-chloropropane)	< 323	ug/Kg		3/24/2020 22:29
2,3,4,6-Tetrachlorophenol	< 323	ug/Kg		3/24/2020 22:29
2,4,5-Trichlorophenol	< 323	ug/Kg		3/24/2020 22:29
2,4,6-Trichlorophenol	< 323	ug/Kg		3/24/2020 22:29
2,4-Dichlorophenol	< 323	ug/Kg		3/24/2020 22:29
2,4-Dimethylphenol	< 323	ug/Kg		3/24/2020 22:29
2,4-Dinitrophenol	< 1290	ug/Kg		3/24/2020 22:29
2,4-Dinitrotoluene	< 323	ug/Kg		3/24/2020 22:29
2,6-Dinitrotoluene	< 323	ug/Kg		3/24/2020 22:29
2-Chloronaphthalene	< 323	ug/Kg		3/24/2020 22:29
2-Chlorophenol	< 323	ug/Kg		3/24/2020 22:29
2-Methylnapthalene	**300**	ug/Kg	J	3/24/2020 22:29
2-Methylphenol	< 323	ug/Kg		3/24/2020 22:29

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-1 0-4 FT		
Lab Sample ID:	201276-01	**Date Sampled:**	3/18/2020
Matrix:	Soil	**Date Received:**	3/23/2020

2-Nitroaniline	< 323	ug/Kg		3/24/2020	22:29
2-Nitrophenol	< 323	ug/Kg		3/24/2020	22:29
3&4-Methylphenol	< 323	ug/Kg		3/24/2020	22:29
3,3'-Dichlorobenzidine	< 323	ug/Kg		3/24/2020	22:29
3-Nitroaniline	< 323	ug/Kg		3/24/2020	22:29
4,6-Dinitro-2-methylphenol	< 646	ug/Kg		3/24/2020	22:29
4-Bromophenyl phenyl ether	< 323	ug/Kg		3/24/2020	22:29
4-Chloro-3-methylphenol	< 323	ug/Kg		3/24/2020	22:29
4-Chloroaniline	< 323	ug/Kg		3/24/2020	22:29
4-Chlorophenyl phenyl ether	< 323	ug/Kg		3/24/2020	22:29
4-Nitroaniline	< 323	ug/Kg		3/24/2020	22:29
4-Nitrophenol	< 323	ug/Kg		3/24/2020	22:29
Acenaphthene	< 323	ug/Kg		3/24/2020	22:29
Acenaphthylene	< 323	ug/Kg		3/24/2020	22:29
Acetophenone	< 323	ug/Kg		3/24/2020	22:29
Anthracene	**268**	ug/Kg	J	3/24/2020	22:29
Atrazine	< 323	ug/Kg		3/24/2020	22:29
Benzaldehyde	< 323	ug/Kg		3/24/2020	22:29
Benzo (a) anthracene	**830**	ug/Kg		3/24/2020	22:29
Benzo (a) pyrene	**788**	ug/Kg		3/24/2020	22:29
Benzo (b) fluoranthene	**734**	ug/Kg		3/24/2020	22:29
Benzo (g,h,i) perylene	**590**	ug/Kg		3/24/2020	22:29
Benzo (k) fluoranthene	**653**	ug/Kg		3/24/2020	22:29
Bis (2-chloroethoxy) methane	< 323	ug/Kg		3/24/2020	22:29
Bis (2-chloroethyl) ether	< 323	ug/Kg		3/24/2020	22:29
Bis (2-ethylhexyl) phthalate	< 323	ug/Kg		3/24/2020	22:29
Butylbenzylphthalate	< 323	ug/Kg		3/24/2020	22:29
Caprolactam	< 323	ug/Kg		3/24/2020	22:29
Carbazole	**206**	ug/Kg	J	3/24/2020	22:29
Chrysene	**947**	ug/Kg		3/24/2020	22:29

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-1 0-4 FT		
Lab Sample ID:	201276-01	**Date Sampled:**	3/18/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Dibenz (a,h) anthracene	< 323	ug/Kg		3/24/2020	22:29
Dibenzofuran	< 323	ug/Kg		3/24/2020	22:29
Diethyl phthalate	< 323	ug/Kg		3/24/2020	22:29
Dimethyl phthalate	< 323	ug/Kg		3/24/2020	22:29
Di-n-butyl phthalate	< 323	ug/Kg		3/24/2020	22:29
Di-n-octylphthalate	< 323	ug/Kg		3/24/2020	22:29
Fluoranthene	**1900**	ug/Kg		3/24/2020	22:29
Fluorene	< 323	ug/Kg		3/24/2020	22:29
Hexachlorobenzene	< 323	ug/Kg		3/24/2020	22:29
Hexachlorobutadiene	< 323	ug/Kg		3/24/2020	22:29
Hexachlorocyclopentadiene	< 1290	ug/Kg		3/24/2020	22:29
Hexachloroethane	< 323	ug/Kg		3/24/2020	22:29
Indeno (1,2,3-cd) pyrene	**478**	ug/Kg		3/24/2020	22:29
Isophorone	< 323	ug/Kg		3/24/2020	22:29
Naphthalene	**251**	ug/Kg	J	3/24/2020	22:29
Nitrobenzene	< 323	ug/Kg		3/24/2020	22:29
N-Nitroso-di-n-propylamine	< 323	ug/Kg		3/24/2020	22:29
N-Nitrosodiphenylamine	< 323	ug/Kg		3/24/2020	22:29
Pentachlorophenol	< 646	ug/Kg		3/24/2020	22:29
Phenanthrene	**1660**	ug/Kg		3/24/2020	22:29
Phenol	< 323	ug/Kg		3/24/2020	22:29
Pyrene	**1730**	ug/Kg		3/24/2020	22:29

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier: SSB-1 0-4 FT
Lab Sample ID: 201276-01 **Date Sampled:** 3/18/2020
Matrix: Soil **Date Received:** 3/23/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**64.9**	35.1 - 89.5		3/24/2020 22:29
2-Fluorobiphenyl	**69.2**	37.7 - 81.4		3/24/2020 22:29
2-Fluorophenol	**62.6**	40.2 - 77		3/24/2020 22:29
Nitrobenzene-d5	**63.0**	36.2 - 78.4		3/24/2020 22:29
Phenol-d5	**64.9**	41.2 - 77.1		3/24/2020 22:29
Terphenyl-d14	**74.8**	39.8 - 97.5		3/24/2020 22:29

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 3/24/2020
Data File: B45296.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 68.8	ug/Kg		3/28/2020 15:25
1,1,2,2-Tetrachloroethane	< 68.8	ug/Kg		3/28/2020 15:25
1,1,2-Trichloroethane	< 68.8	ug/Kg		3/28/2020 15:25
1,1-Dichloroethane	< 68.8	ug/Kg		3/28/2020 15:25
1,1-Dichloroethene	< 68.8	ug/Kg		3/28/2020 15:25
1,2,3-Trichlorobenzene	< 172	ug/Kg		3/28/2020 15:25
1,2,4-Trichlorobenzene	< 172	ug/Kg		3/28/2020 15:25
1,2,4-Trimethylbenzene	< 68.8	ug/Kg		3/28/2020 15:25
1,2-Dibromo-3-Chloropropane	< 344	ug/Kg		3/28/2020 15:25
1,2-Dibromoethane	< 68.8	ug/Kg		3/28/2020 15:25
1,2-Dichlorobenzene	< 68.8	ug/Kg		3/28/2020 15:25
1,2-Dichloroethane	< 68.8	ug/Kg		3/28/2020 15:25
1,2-Dichloropropane	< 68.8	ug/Kg		3/28/2020 15:25
1,3,5-Trimethylbenzene	< 68.8	ug/Kg		3/28/2020 15:25
1,3-Dichlorobenzene	< 68.8	ug/Kg		3/28/2020 15:25
1,4-Dichlorobenzene	< 68.8	ug/Kg		3/28/2020 15:25
1,4-Dioxane	< 688	ug/Kg		3/28/2020 15:25
2-Butanone	< 344	ug/Kg		3/28/2020 15:25

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-1 0-4 FT		
Lab Sample ID:	201276-01	**Date Sampled:**	3/18/2020
Matrix:	Soil	**Date Received:**	3/23/2020

2-Hexanone	< 172	ug/Kg	3/28/2020	15:25
4-Methyl-2-pentanone	< 172	ug/Kg	3/28/2020	15:25
Acetone	< 344	ug/Kg	3/28/2020	15:25
Benzene	< 68.8	ug/Kg	3/28/2020	15:25
Bromochloromethane	< 172	ug/Kg	3/28/2020	15:25
Bromodichloromethane	< 68.8	ug/Kg	3/28/2020	15:25
Bromoform	< 172	ug/Kg	3/28/2020	15:25
Bromomethane	< 68.8	ug/Kg	3/28/2020	15:25
Carbon disulfide	< 68.8	ug/Kg	3/28/2020	15:25
Carbon Tetrachloride	< 68.8	ug/Kg	3/28/2020	15:25
Chlorobenzene	< 68.8	ug/Kg	3/28/2020	15:25
Chloroethane	< 68.8	ug/Kg	3/28/2020	15:25
Chloroform	< 68.8	ug/Kg	3/28/2020	15:25
Chloromethane	< 68.8	ug/Kg	3/28/2020	15:25
cis-1,2-Dichloroethene	< 68.8	ug/Kg	3/28/2020	15:25
cis-1,3-Dichloropropene	< 68.8	ug/Kg	3/28/2020	15:25
Cyclohexane	< 344	ug/Kg	3/28/2020	15:25
Dibromochloromethane	< 68.8	ug/Kg	3/28/2020	15:25
Dichlorodifluoromethane	< 68.8	ug/Kg	3/28/2020	15:25
Ethylbenzene	< 68.8	ug/Kg	3/28/2020	15:25
Freon 113	< 68.8	ug/Kg	3/28/2020	15:25
Isopropylbenzene	< 68.8	ug/Kg	3/28/2020	15:25
m,p-Xylene	< 68.8	ug/Kg	3/28/2020	15:25
Methyl acetate	< 68.8	ug/Kg	3/28/2020	15:25
Methyl tert-butyl Ether	< 68.8	ug/Kg	3/28/2020	15:25
Methylcyclohexane	< 68.8	ug/Kg	3/28/2020	15:25
Methylene chloride	< 172	ug/Kg	3/28/2020	15:25
Naphthalene	< 172	ug/Kg	3/28/2020	15:25
n-Butylbenzene	< 68.8	ug/Kg	3/28/2020	15:25
n-Propylbenzene	< 68.8	ug/Kg	3/28/2020	15:25

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier: SSB-1 0-4 FT
Lab Sample ID: 201276-01 **Date Sampled:** 3/18/2020
Matrix: Soil **Date Received:** 3/23/2020

o-Xylene	< 68.8	ug/Kg		3/28/2020	15:25
p-Isopropyltoluene	< 68.8	ug/Kg		3/28/2020	15:25
sec-Butylbenzene	< 68.8	ug/Kg		3/28/2020	15:25
Styrene	< 172	ug/Kg		3/28/2020	15:25
tert-Butylbenzene	< 68.8	ug/Kg		3/28/2020	15:25
Tetrachloroethene	< 68.8	ug/Kg		3/28/2020	15:25
Toluene	< 68.8	ug/Kg		3/28/2020	15:25
trans-1,2-Dichloroethene	< 68.8	ug/Kg		3/28/2020	15:25
trans-1,3-Dichloropropene	< 68.8	ug/Kg		3/28/2020	15:25
Trichloroethene	**1700**	ug/Kg		3/28/2020	15:25
Trichlorofluoromethane	< 68.8	ug/Kg		3/28/2020	15:25
Vinyl chloride	< 68.8	ug/Kg		3/28/2020	15:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**127**	67.9 - 146		3/28/2020	15:25
4-Bromofluorobenzene	**101**	64.6 - 127		3/28/2020	15:25
Pentafluorobenzene	**115**	85.5 - 113	*	3/28/2020	15:25
Toluene-D8	**101**	83.9 - 114		3/28/2020	15:25

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x69306.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.623	mg/Kg		3/27/2020

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 3/25/2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-2 6-8 FT		
Lab Sample ID:	201276-02	**Date Sampled:**	3/18/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 83.7	ug/Kg		3/28/2020 13:24
1,1,2,2-Tetrachloroethane	< 83.7	ug/Kg		3/28/2020 13:24
1,1,2-Trichloroethane	< 83.7	ug/Kg		3/28/2020 13:24
1,1-Dichloroethane	< 83.7	ug/Kg		3/28/2020 13:24
1,1-Dichloroethene	< 83.7	ug/Kg		3/28/2020 13:24
1,2,3-Trichlorobenzene	< 209	ug/Kg		3/28/2020 13:24
1,2,4-Trichlorobenzene	< 209	ug/Kg		3/28/2020 13:24
1,2,4-Trimethylbenzene	< 83.7	ug/Kg		3/28/2020 13:24
1,2-Dibromo-3-Chloropropane	< 418	ug/Kg		3/28/2020 13:24
1,2-Dibromoethane	< 83.7	ug/Kg		3/28/2020 13:24
1,2-Dichlorobenzene	< 83.7	ug/Kg		3/28/2020 13:24
1,2-Dichloroethane	< 83.7	ug/Kg		3/28/2020 13:24
1,2-Dichloropropane	< 83.7	ug/Kg		3/28/2020 13:24
1,3,5-Trimethylbenzene	< 83.7	ug/Kg		3/28/2020 13:24
1,3-Dichlorobenzene	< 83.7	ug/Kg		3/28/2020 13:24
1,4-Dichlorobenzene	< 83.7	ug/Kg		3/28/2020 13:24
1,4-Dioxane	< 837	ug/Kg		3/28/2020 13:24
2-Butanone	< 418	ug/Kg		3/28/2020 13:24
2-Hexanone	< 209	ug/Kg		3/28/2020 13:24
4-Methyl-2-pentanone	< 209	ug/Kg		3/28/2020 13:24
Acetone	< 418	ug/Kg		3/28/2020 13:24
Benzene	< 83.7	ug/Kg		3/28/2020 13:24
Bromochloromethane	< 209	ug/Kg		3/28/2020 13:24
Bromodichloromethane	< 83.7	ug/Kg		3/28/2020 13:24
Bromoform	< 209	ug/Kg		3/28/2020 13:24
Bromomethane	< 83.7	ug/Kg		3/28/2020 13:24
Carbon disulfide	< 83.7	ug/Kg		3/28/2020 13:24
Carbon Tetrachloride	< 83.7	ug/Kg		3/28/2020 13:24

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier: SSB-2 6-8 FT
Lab Sample ID: 201276-02 **Date Sampled:** 3/18/2020
Matrix: Soil **Date Received:** 3/23/2020

Chlorobenzene	< 83.7	ug/Kg	3/28/2020	13:24
Chloroethane	< 83.7	ug/Kg	3/28/2020	13:24
Chloroform	< 83.7	ug/Kg	3/28/2020	13:24
Chloromethane	< 83.7	ug/Kg	3/28/2020	13:24
cis-1,2-Dichloroethene	< 83.7	ug/Kg	3/28/2020	13:24
cis-1,3-Dichloropropene	< 83.7	ug/Kg	3/28/2020	13:24
Cyclohexane	< 418	ug/Kg	3/28/2020	13:24
Dibromochloromethane	< 83.7	ug/Kg	3/28/2020	13:24
Dichlorodifluoromethane	< 83.7	ug/Kg	3/28/2020	13:24
Ethylbenzene	< 83.7	ug/Kg	3/28/2020	13:24
Freon 113	< 83.7	ug/Kg	3/28/2020	13:24
Isopropylbenzene	< 83.7	ug/Kg	3/28/2020	13:24
m,p-Xylene	< 83.7	ug/Kg	3/28/2020	13:24
Methyl acetate	< 83.7	ug/Kg	3/28/2020	13:24
Methyl tert-butyl Ether	< 83.7	ug/Kg	3/28/2020	13:24
Methylcyclohexane	< 83.7	ug/Kg	3/28/2020	13:24
Methylene chloride	< 209	ug/Kg	3/28/2020	13:24
Naphthalene	< 209	ug/Kg	3/28/2020	13:24
n-Butylbenzene	< 83.7	ug/Kg	3/28/2020	13:24
n-Propylbenzene	< 83.7	ug/Kg	3/28/2020	13:24
o-Xylene	< 83.7	ug/Kg	3/28/2020	13:24
p-Isopropyltoluene	< 83.7	ug/Kg	3/28/2020	13:24
sec-Butylbenzene	< 83.7	ug/Kg	3/28/2020	13:24
Styrene	< 209	ug/Kg	3/28/2020	13:24
tert-Butylbenzene	< 83.7	ug/Kg	3/28/2020	13:24
Tetrachloroethene	< 83.7	ug/Kg	3/28/2020	13:24
Toluene	< 83.7	ug/Kg	3/28/2020	13:24
trans-1,2-Dichloroethene	< 83.7	ug/Kg	3/28/2020	13:24
trans-1,3-Dichloropropene	< 83.7	ug/Kg	3/28/2020	13:24
Trichloroethene	**798**	ug/Kg	3/28/2020	13:24

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-2 6-8 FT		
Lab Sample ID:	201276-02	**Date Sampled:**	3/18/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Trichlorofluoromethane	< 83.7	ug/Kg			3/28/2020	13:24
Vinyl chloride	< 83.7	ug/Kg			3/28/2020	13:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**118**	67.9 - 146		3/28/2020	13:24
4-Bromofluorobenzene	**102**	64.6 - 127		3/28/2020	13:24
Pentafluorobenzene	**113**	85.5 - 113		3/28/2020	13:24
Toluene-D8	**104**	83.9 - 114		3/28/2020	13:24

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x69301.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-2 9-11 FT		
Lab Sample ID:	201276-03	**Date Sampled:**	3/18/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 140	ug/Kg		3/30/2020 13:00
1,1,2,2-Tetrachloroethane	< 140	ug/Kg		3/30/2020 13:00
1,1,2-Trichloroethane	**88.6**	ug/Kg	J	3/30/2020 13:00
1,1-Dichloroethane	< 140	ug/Kg		3/30/2020 13:00
1,1-Dichloroethene	< 140	ug/Kg		3/30/2020 13:00
1,2,3-Trichlorobenzene	< 351	ug/Kg		3/30/2020 13:00
1,2,4-Trichlorobenzene	< 351	ug/Kg		3/30/2020 13:00
1,2,4-Trimethylbenzene	< 140	ug/Kg		3/30/2020 13:00
1,2-Dibromo-3-Chloropropane	< 702	ug/Kg		3/30/2020 13:00
1,2-Dibromoethane	< 140	ug/Kg		3/30/2020 13:00
1,2-Dichlorobenzene	< 140	ug/Kg		3/30/2020 13:00
1,2-Dichloroethane	< 140	ug/Kg		3/30/2020 13:00
1,2-Dichloropropane	< 140	ug/Kg		3/30/2020 13:00
1,3,5-Trimethylbenzene	< 140	ug/Kg		3/30/2020 13:00
1,3-Dichlorobenzene	< 140	ug/Kg		3/30/2020 13:00
1,4-Dichlorobenzene	< 140	ug/Kg		3/30/2020 13:00
1,4-Dioxane	< 1400	ug/Kg		3/30/2020 13:00
2-Butanone	< 702	ug/Kg		3/30/2020 13:00
2-Hexanone	< 351	ug/Kg		3/30/2020 13:00
4-Methyl-2-pentanone	< 351	ug/Kg		3/30/2020 13:00
Acetone	< 702	ug/Kg		3/30/2020 13:00
Benzene	< 140	ug/Kg		3/30/2020 13:00
Bromochloromethane	< 351	ug/Kg		3/30/2020 13:00
Bromodichloromethane	< 140	ug/Kg		3/30/2020 13:00
Bromoform	< 351	ug/Kg		3/30/2020 13:00
Bromomethane	< 140	ug/Kg		3/30/2020 13:00
Carbon disulfide	< 140	ug/Kg		3/30/2020 13:00
Carbon Tetrachloride	< 140	ug/Kg		3/30/2020 13:00

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-2 9-11 FT		
Lab Sample ID:	201276-03	**Date Sampled:**	3/18/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Chlorobenzene	< 140	ug/Kg	3/30/2020	13:00
Chloroethane	< 140	ug/Kg	3/30/2020	13:00
Chloroform	< 140	ug/Kg	3/30/2020	13:00
Chloromethane	< 140	ug/Kg	3/30/2020	13:00
cis-1,2-Dichloroethene	< 140	ug/Kg	3/30/2020	13:00
cis-1,3-Dichloropropene	< 140	ug/Kg	3/30/2020	13:00
Cyclohexane	< 702	ug/Kg	3/30/2020	13:00
Dibromochloromethane	< 140	ug/Kg	3/30/2020	13:00
Dichlorodifluoromethane	< 140	ug/Kg	3/30/2020	13:00
Ethylbenzene	< 140	ug/Kg	3/30/2020	13:00
Freon 113	< 140	ug/Kg	3/30/2020	13:00
Isopropylbenzene	< 140	ug/Kg	3/30/2020	13:00
m,p-Xylene	< 140	ug/Kg	3/30/2020	13:00
Methyl acetate	< 140	ug/Kg	3/30/2020	13:00
Methyl tert-butyl Ether	< 140	ug/Kg	3/30/2020	13:00
Methylcyclohexane	< 140	ug/Kg	3/30/2020	13:00
Methylene chloride	< 351	ug/Kg	3/30/2020	13:00
Naphthalene	< 351	ug/Kg	3/30/2020	13:00
n-Butylbenzene	< 140	ug/Kg	3/30/2020	13:00
n-Propylbenzene	< 140	ug/Kg	3/30/2020	13:00
o-Xylene	< 140	ug/Kg	3/30/2020	13:00
p-Isopropyltoluene	< 140	ug/Kg	3/30/2020	13:00
sec-Butylbenzene	< 140	ug/Kg	3/30/2020	13:00
Styrene	< 351	ug/Kg	3/30/2020	13:00
tert-Butylbenzene	< 140	ug/Kg	3/30/2020	13:00
Tetrachloroethene	< 140	ug/Kg	3/30/2020	13:00
Toluene	< 140	ug/Kg	3/30/2020	13:00
trans-1,2-Dichloroethene	< 140	ug/Kg	3/30/2020	13:00
trans-1,3-Dichloropropene	< 140	ug/Kg	3/30/2020	13:00
Trichloroethene	**4570**	ug/Kg	3/30/2020	13:00

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-2 9-11 FT		
Lab Sample ID:	201276-03	**Date Sampled:**	3/18/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Trichlorofluoromethane	< 140	ug/Kg			3/30/2020	13:00
Vinyl chloride	< 140	ug/Kg			3/30/2020	13:00

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**109**	67.9 - 146		3/30/2020	13:00
4-Bromofluorobenzene	**94.9**	64.6 - 127		3/30/2020	13:00
Pentafluorobenzene	**115**	85.5 - 113	*	3/30/2020	13:00
Toluene-D8	**102**	83.9 - 114		3/30/2020	13:00

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x69326.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-3 10-11 FT		
Lab Sample ID:	201276-04	**Date Sampled:**	3/19/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 103	ug/Kg		3/28/2020 14:12
1,1,2,2-Tetrachloroethane	< 103	ug/Kg		3/28/2020 14:12
1,1,2-Trichloroethane	**237**	ug/Kg		3/28/2020 14:12
1,1-Dichloroethane	< 103	ug/Kg		3/28/2020 14:12
1,1-Dichloroethene	< 103	ug/Kg		3/28/2020 14:12
1,2,3-Trichlorobenzene	< 259	ug/Kg		3/28/2020 14:12
1,2,4-Trichlorobenzene	< 259	ug/Kg		3/28/2020 14:12
1,2,4-Trimethylbenzene	< 103	ug/Kg		3/28/2020 14:12
1,2-Dibromo-3-Chloropropane	< 517	ug/Kg		3/28/2020 14:12
1,2-Dibromoethane	< 103	ug/Kg		3/28/2020 14:12
1,2-Dichlorobenzene	< 103	ug/Kg		3/28/2020 14:12
1,2-Dichloroethane	< 103	ug/Kg		3/28/2020 14:12
1,2-Dichloropropane	< 103	ug/Kg		3/28/2020 14:12
1,3,5-Trimethylbenzene	< 103	ug/Kg		3/28/2020 14:12
1,3-Dichlorobenzene	< 103	ug/Kg		3/28/2020 14:12
1,4-Dichlorobenzene	< 103	ug/Kg		3/28/2020 14:12
1,4-Dioxane	< 1030	ug/Kg		3/28/2020 14:12
2-Butanone	< 517	ug/Kg		3/28/2020 14:12
2-Hexanone	< 259	ug/Kg		3/28/2020 14:12
4-Methyl-2-pentanone	< 259	ug/Kg		3/28/2020 14:12
Acetone	< 517	ug/Kg		3/28/2020 14:12
Benzene	< 103	ug/Kg		3/28/2020 14:12
Bromochloromethane	< 259	ug/Kg		3/28/2020 14:12
Bromodichloromethane	< 103	ug/Kg		3/28/2020 14:12
Bromoform	< 259	ug/Kg		3/28/2020 14:12
Bromomethane	< 103	ug/Kg		3/28/2020 14:12
Carbon disulfide	< 103	ug/Kg		3/28/2020 14:12
Carbon Tetrachloride	< 103	ug/Kg		3/28/2020 14:12

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier: SSB-3 10-11 FT
Lab Sample ID: 201276-04 **Date Sampled:** 3/19/2020
Matrix: Soil **Date Received:** 3/23/2020

Chlorobenzene	< 103	ug/Kg	3/28/2020	14:12
Chloroethane	< 103	ug/Kg	3/28/2020	14:12
Chloroform	< 103	ug/Kg	3/28/2020	14:12
Chloromethane	< 103	ug/Kg	3/28/2020	14:12
cis-1,2-Dichloroethene	< 103	ug/Kg	3/28/2020	14:12
cis-1,3-Dichloropropene	< 103	ug/Kg	3/28/2020	14:12
Cyclohexane	< 517	ug/Kg	3/28/2020	14:12
Dibromochloromethane	< 103	ug/Kg	3/28/2020	14:12
Dichlorodifluoromethane	< 103	ug/Kg	3/28/2020	14:12
Ethylbenzene	< 103	ug/Kg	3/28/2020	14:12
Freon 113	< 103	ug/Kg	3/28/2020	14:12
Isopropylbenzene	< 103	ug/Kg	3/28/2020	14:12
m,p-Xylene	< 103	ug/Kg	3/28/2020	14:12
Methyl acetate	< 103	ug/Kg	3/28/2020	14:12
Methyl tert-butyl Ether	< 103	ug/Kg	3/28/2020	14:12
Methylcyclohexane	< 103	ug/Kg	3/28/2020	14:12
Methylene chloride	< 259	ug/Kg	3/28/2020	14:12
Naphthalene	< 259	ug/Kg	3/28/2020	14:12
n-Butylbenzene	< 103	ug/Kg	3/28/2020	14:12
n-Propylbenzene	< 103	ug/Kg	3/28/2020	14:12
o-Xylene	< 103	ug/Kg	3/28/2020	14:12
p-Isopropyltoluene	< 103	ug/Kg	3/28/2020	14:12
sec-Butylbenzene	< 103	ug/Kg	3/28/2020	14:12
Styrene	< 259	ug/Kg	3/28/2020	14:12
tert-Butylbenzene	< 103	ug/Kg	3/28/2020	14:12
Tetrachloroethene	< 103	ug/Kg	3/28/2020	14:12
Toluene	< 103	ug/Kg	3/28/2020	14:12
trans-1,2-Dichloroethene	< 103	ug/Kg	3/28/2020	14:12
trans-1,3-Dichloropropene	< 103	ug/Kg	3/28/2020	14:12
Trichloroethene	**4850**	ug/Kg	3/28/2020	14:12

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-3 10-11 FT		
Lab Sample ID:	201276-04	**Date Sampled:**	3/19/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Trichlorofluoromethane	< 103	ug/Kg			3/28/2020	14:12
Vinyl chloride	< 103	ug/Kg			3/28/2020	14:12

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**127**	67.9 - 146		3/28/2020	14:12
4-Bromofluorobenzene	**105**	64.6 - 127		3/28/2020	14:12
Pentafluorobenzene	**116**	85.5 - 113	*	3/28/2020	14:12
Toluene-D8	**104**	83.9 - 114		3/28/2020	14:12

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x69303.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-4 10-12 FT		
Lab Sample ID:	201276-05	**Date Sampled:**	3/19/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 35200	ug/Kg		3/31/2020 12:27
1,1,2,2-Tetrachloroethane	< 35200	ug/Kg		3/31/2020 12:27
1,1,2-Trichloroethane	< 35200	ug/Kg		3/31/2020 12:27
1,1-Dichloroethane	< 35200	ug/Kg		3/31/2020 12:27
1,1-Dichloroethene	< 35200	ug/Kg		3/31/2020 12:27
1,2,3-Trichlorobenzene	< 88000	ug/Kg		3/31/2020 12:27
1,2,4-Trichlorobenzene	< 88000	ug/Kg		3/31/2020 12:27
1,2,4-Trimethylbenzene	< 35200	ug/Kg		3/31/2020 12:27
1,2-Dibromo-3-Chloropropane	< 176000	ug/Kg		3/31/2020 12:27
1,2-Dibromoethane	< 35200	ug/Kg		3/31/2020 12:27
1,2-Dichlorobenzene	< 35200	ug/Kg		3/31/2020 12:27
1,2-Dichloroethane	< 35200	ug/Kg		3/31/2020 12:27
1,2-Dichloropropane	< 35200	ug/Kg		3/31/2020 12:27
1,3,5-Trimethylbenzene	< 35200	ug/Kg		3/31/2020 12:27
1,3-Dichlorobenzene	< 35200	ug/Kg		3/31/2020 12:27
1,4-Dichlorobenzene	< 35200	ug/Kg		3/31/2020 12:27
1,4-Dioxane	< 352000	ug/Kg		3/31/2020 12:27
2-Butanone	< 176000	ug/Kg		3/31/2020 12:27
2-Hexanone	< 88000	ug/Kg		3/31/2020 12:27
4-Methyl-2-pentanone	< 88000	ug/Kg		3/31/2020 12:27
Acetone	< 176000	ug/Kg		3/31/2020 12:27
Benzene	< 35200	ug/Kg		3/31/2020 12:27
Bromochloromethane	< 88000	ug/Kg		3/31/2020 12:27
Bromodichloromethane	< 35200	ug/Kg		3/31/2020 12:27
Bromoform	< 88000	ug/Kg		3/31/2020 12:27
Bromomethane	< 35200	ug/Kg		3/31/2020 12:27
Carbon disulfide	< 35200	ug/Kg		3/31/2020 12:27
Carbon Tetrachloride	< 35200	ug/Kg		3/31/2020 12:27

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-4 10-12 FT		
Lab Sample ID:	201276-05	**Date Sampled:**	3/19/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Chlorobenzene	< 35200	ug/Kg	3/31/2020	12:27
Chloroethane	< 35200	ug/Kg	3/31/2020	12:27
Chloroform	< 35200	ug/Kg	3/31/2020	12:27
Chloromethane	< 35200	ug/Kg	3/31/2020	12:27
cis-1,2-Dichloroethene	< 35200	ug/Kg	3/31/2020	12:27
cis-1,3-Dichloropropene	< 35200	ug/Kg	3/31/2020	12:27
Cyclohexane	< 176000	ug/Kg	3/31/2020	12:27
Dibromochloromethane	< 35200	ug/Kg	3/31/2020	12:27
Dichlorodifluoromethane	< 35200	ug/Kg	3/31/2020	12:27
Ethylbenzene	< 35200	ug/Kg	3/31/2020	12:27
Freon 113	< 35200	ug/Kg	3/31/2020	12:27
Isopropylbenzene	< 35200	ug/Kg	3/31/2020	12:27
m,p-Xylene	< 35200	ug/Kg	3/31/2020	12:27
Methyl acetate	< 35200	ug/Kg	3/31/2020	12:27
Methyl tert-butyl Ether	< 35200	ug/Kg	3/31/2020	12:27
Methylcyclohexane	< 35200	ug/Kg	3/31/2020	12:27
Methylene chloride	< 88000	ug/Kg	3/31/2020	12:27
Naphthalene	< 88000	ug/Kg	3/31/2020	12:27
n-Butylbenzene	< 35200	ug/Kg	3/31/2020	12:27
n-Propylbenzene	< 35200	ug/Kg	3/31/2020	12:27
o-Xylene	< 35200	ug/Kg	3/31/2020	12:27
p-Isopropyltoluene	< 35200	ug/Kg	3/31/2020	12:27
sec-Butylbenzene	< 35200	ug/Kg	3/31/2020	12:27
Styrene	< 88000	ug/Kg	3/31/2020	12:27
tert-Butylbenzene	< 35200	ug/Kg	3/31/2020	12:27
Tetrachloroethene	< 35200	ug/Kg	3/31/2020	12:27
Toluene	< 35200	ug/Kg	3/31/2020	12:27
trans-1,2-Dichloroethene	< 35200	ug/Kg	3/31/2020	12:27
trans-1,3-Dichloropropene	< 35200	ug/Kg	3/31/2020	12:27
Trichloroethene	**1980000**	ug/Kg	3/31/2020	12:27

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-4 10-12 FT		
Lab Sample ID:	201276-05	**Date Sampled:**	3/19/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Trichlorofluoromethane	< 35200	ug/Kg			3/31/2020	12:27
Vinyl chloride	< 35200	ug/Kg			3/31/2020	12:27

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**119**	67.9 - 146		3/31/2020	12:27
4-Bromofluorobenzene	**91.3**	64.6 - 127		3/31/2020	12:27
Pentafluorobenzene	**116**	85.5 - 113	*	3/31/2020	12:27
Toluene-D8	**97.8**	83.9 - 114		3/31/2020	12:27

Method Reference(s): EPA 8260C
EPA 5035A -- H

Data File: x69360.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-5 6-7 FT		
Lab Sample ID:	201276-06	**Date Sampled:**	3/19/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 79.1	ug/Kg		3/28/2020 15:01
1,1,2,2-Tetrachloroethane	< 79.1	ug/Kg		3/28/2020 15:01
1,1,2-Trichloroethane	< 79.1	ug/Kg		3/28/2020 15:01
1,1-Dichloroethane	< 79.1	ug/Kg		3/28/2020 15:01
1,1-Dichloroethene	< 79.1	ug/Kg		3/28/2020 15:01
1,2,3-Trichlorobenzene	< 198	ug/Kg		3/28/2020 15:01
1,2,4-Trichlorobenzene	< 198	ug/Kg		3/28/2020 15:01
1,2,4-Trimethylbenzene	< 79.1	ug/Kg		3/28/2020 15:01
1,2-Dibromo-3-Chloropropane	< 396	ug/Kg		3/28/2020 15:01
1,2-Dibromoethane	< 79.1	ug/Kg		3/28/2020 15:01
1,2-Dichlorobenzene	< 79.1	ug/Kg		3/28/2020 15:01
1,2-Dichloroethane	< 79.1	ug/Kg		3/28/2020 15:01
1,2-Dichloropropane	< 79.1	ug/Kg		3/28/2020 15:01
1,3,5-Trimethylbenzene	< 79.1	ug/Kg		3/28/2020 15:01
1,3-Dichlorobenzene	< 79.1	ug/Kg		3/28/2020 15:01
1,4-Dichlorobenzene	< 79.1	ug/Kg		3/28/2020 15:01
1,4-Dioxane	< 791	ug/Kg		3/28/2020 15:01
2-Butanone	< 396	ug/Kg		3/28/2020 15:01
2-Hexanone	< 198	ug/Kg		3/28/2020 15:01
4-Methyl-2-pentanone	< 198	ug/Kg		3/28/2020 15:01
Acetone	< 396	ug/Kg		3/28/2020 15:01
Benzene	< 79.1	ug/Kg		3/28/2020 15:01
Bromochloromethane	< 198	ug/Kg		3/28/2020 15:01
Bromodichloromethane	< 79.1	ug/Kg		3/28/2020 15:01
Bromoform	< 198	ug/Kg		3/28/2020 15:01
Bromomethane	< 79.1	ug/Kg		3/28/2020 15:01
Carbon disulfide	< 79.1	ug/Kg		3/28/2020 15:01
Carbon Tetrachloride	< 79.1	ug/Kg		3/28/2020 15:01

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Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier: SSB-5 6-7 FT
Lab Sample ID: 201276-06 **Date Sampled:** 3/19/2020
Matrix: Soil **Date Received:** 3/23/2020

Chlorobenzene	< 79.1	ug/Kg		3/28/2020	15:01
Chloroethane	< 79.1	ug/Kg		3/28/2020	15:01
Chloroform	< 79.1	ug/Kg		3/28/2020	15:01
Chloromethane	< 79.1	ug/Kg		3/28/2020	15:01
cis-1,2-Dichloroethene	**43.8**	ug/Kg	J	3/28/2020	15:01
cis-1,3-Dichloropropene	< 79.1	ug/Kg		3/28/2020	15:01
Cyclohexane	< 396	ug/Kg		3/28/2020	15:01
Dibromochloromethane	< 79.1	ug/Kg		3/28/2020	15:01
Dichlorodifluoromethane	< 79.1	ug/Kg		3/28/2020	15:01
Ethylbenzene	< 79.1	ug/Kg		3/28/2020	15:01
Freon 113	< 79.1	ug/Kg		3/28/2020	15:01
Isopropylbenzene	< 79.1	ug/Kg		3/28/2020	15:01
m,p-Xylene	< 79.1	ug/Kg		3/28/2020	15:01
Methyl acetate	< 79.1	ug/Kg		3/28/2020	15:01
Methyl tert-butyl Ether	< 79.1	ug/Kg		3/28/2020	15:01
Methylcyclohexane	< 79.1	ug/Kg		3/28/2020	15:01
Methylene chloride	< 198	ug/Kg		3/28/2020	15:01
Naphthalene	< 198	ug/Kg		3/28/2020	15:01
n-Butylbenzene	< 79.1	ug/Kg		3/28/2020	15:01
n-Propylbenzene	< 79.1	ug/Kg		3/28/2020	15:01
o-Xylene	< 79.1	ug/Kg		3/28/2020	15:01
p-Isopropyltoluene	< 79.1	ug/Kg		3/28/2020	15:01
sec-Butylbenzene	< 79.1	ug/Kg		3/28/2020	15:01
Styrene	< 198	ug/Kg		3/28/2020	15:01
tert-Butylbenzene	< 79.1	ug/Kg		3/28/2020	15:01
Tetrachloroethene	< 79.1	ug/Kg		3/28/2020	15:01
Toluene	< 79.1	ug/Kg		3/28/2020	15:01
trans-1,2-Dichloroethene	< 79.1	ug/Kg		3/28/2020	15:01
trans-1,3-Dichloropropene	< 79.1	ug/Kg		3/28/2020	15:01
Trichloroethene	**634**	ug/Kg		3/28/2020	15:01

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 201276

Client: **BE3**

Project Reference: 57-71 Tonawanda

Sample Identifier:	SSB-5 6-7 FT		
Lab Sample ID:	201276-06	**Date Sampled:**	3/19/2020
Matrix:	Soil	**Date Received:**	3/23/2020

Trichlorofluoromethane	< 79.1	ug/Kg			3/28/2020	15:01
Vinyl chloride	< 79.1	ug/Kg			3/28/2020	15:01

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**130**	67.9 - 146		3/28/2020	15:01
4-Bromofluorobenzene	**99.3**	64.6 - 127		3/28/2020	15:01
Pentafluorobenzene	**118**	85.5 - 113	*	3/28/2020	15:01
Toluene-D8	**101**	83.9 - 114		3/28/2020	15:01

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x69305.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1 of 2

CHAIN OF CUSTODY

2 of 2

Partial

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		
CLIENT:	BE3	CLIENT:		LAB PROJECT ID: 201276
ADDRESS:	1270 NIAGARA	ADDRESS:		
CITY:	BUFFALO STATE: NY ZIP 14213	CITY: STATE: ZIP:		Quotation #:
PHONE:	716-308-8220	PHONE:		Email:
ATTN:	PETER J. GORTON	ATTN:		

PROJECT REFERENCE: 57-71 TONAWANDA

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	PAHs 375 VOCs	PAHs 375 SVOCs	TAL METALS	PCBs	PEST	CYANIDE	PFAS	PERCENT SOLIDS	TCLP Hydrides	Silver per email elf 3/20/2020	REMARKS	PARADIGM LAB SAMPLE NUMBER
3-18-20	240		X	SSA-1 0-4 FT	SO	5	X	X	X	X	X	X	X	X	X		A for TCLP extract. GP 3/23/2020	01A
3-18-20	310		X	SSB-2 6-8 FT		1	X										VOCs ONLY	02
3-18-20	310		X	SSB-2 9-11 FT		1	X											03
3-19-20	840		X	SSB-3 10-11 FT		1	X											04
3-19-20	930		X	SSB-4 10-12 FT		1	X											05
3-19-20	1000		X	SSB-5 6-7 FT		1	X											06
																	4°C iced 3/20/2020 1537 MW No custody seals	

3/23/2020

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other (please indicate date needed:)	☐	Other (please indicate package needed:)	☐	Other EDD (please indicate EDD needed :)	☐

Sampled By: Peter J. Gorton — Date/Time: 3-18 & 19-20

Relinquished By: [signature] — Date/Time: 3-19-2020

Received By: [signature] — Date/Time: 3-19-2020 0215

Received @ Lab By: [signature] — Date/Time: 3/23/2020 10:12

Total Cost:

P.I.F.

Sub sent directly to sub lab. GP 3/23/2020

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: BE3 **Completed by:** Glenn Perzulo

Lab Project ID: 201276 **Date:** 3/23/2020

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X	X 5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X Metals
Comments	4 °C iced		
Compliant Sample Quantity/Type	X		
Comments	Samples for PFAS, TCLP Herbicides sent directly to sub lab.		

Partial

2020 NYSDEC
REMEDIAL INVESTIGATION REPORT
31 TONAWANDA STREET OFF-SITE

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-175394-1
Client Project/Site: 31 Tonawanda St. - OffSite C915299A

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, New York 14203

Attn: Mr. Glenn May

Authorized for release by:
9/30/2020 1:31:46 PM

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Orlette Johnson
Senior Project Manager
9/30/2020 1:31:46 PM

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-175394-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-175394-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-175394-1

Receipt
The samples were received on 9/17/2020 3:15 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.0º C and 3.2º C.

GC/MS VOA
Method 8260C: The following sample was analyzed using medium level soil analysis and diluted due to the abundance of non-target analytes: SB-106 (480-175394-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: SB-100 (480-175394-1), SB-103 (480-175394-2) and SB-106 (480-175394-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The analyte Methylene Chloride was detected in the method Blank at a level above the established reporting limit. The associated samples had levels of Methylene Chloride less than ten times that of the Method Blank value. All sample results for Methylene Chloride may potentially be due to laboratory contamination and should be evaluated accordingly. All associated positive sample results were qualified with a "B". The following samples have been impacted: SB-106 (480-175394-3).

Method 8260C: The laboratory control sample (LCS) for 480-551207 recovered outside control limits for the analyte Methylene Chloride due to laboratory contamination. The following samples are impacted: SB-100 (480-175394-1), SB-103 (480-175394-2) and SB-106 (480-175394-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-550866 recovered outside acceptance criteria, low biased, for 4-Nitrophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The following samples were diluted due to color, appearance and viscosity: SB-100 (480-175394-1), SB-103 (480-175394-2) and SB-106 (480-175394-3). Elevated reporting limits (RL) are provided.

Method 8270D: The following samples required a dilution due to physical characteristics : SB-100 (480-175394-1) and SB-106 (480-175394-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-100 (480-175394-1) and SB-103 (480-175394-2). Elevated reporting limits (RLs) are provided.

Method 8270D: The following samples were diluted due to the abundance of target analytes: SB-100 (480-175394-1) and SB-103 (480-175394-2). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 3550C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: SB-100 (480-175394-1). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: New York State D.E.C.
Job ID: 480-175394-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: SB-100
Lab Sample ID: 480-175394-1
Date Collected: 09/17/20 09:35
Matrix: Solid
Date Received: 09/17/20 15:15
Percent Solids: 85.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5000	1400	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
1,1,2,2-Tetrachloroethane	ND		5000	810	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5000	2500	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
1,1,2-Trichloroethane	ND		5000	1000	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
1,1-Dichloroethane	ND		5000	1500	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
1,1-Dichloroethene	ND		5000	1700	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
1,2,4-Trichlorobenzene	ND		5000	1900	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
1,2-Dibromo-3-Chloropropane	ND		5000	2500	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
1,2-Dibromoethane	ND		5000	870	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
1,2-Dichlorobenzene	ND		5000	1300	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
1,2-Dichloroethane	ND		5000	2000	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
1,2-Dichloropropane	ND		5000	810	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
1,3-Dichlorobenzene	ND		5000	1300	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
1,4-Dichlorobenzene	ND		5000	700	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
2-Butanone (MEK)	ND		25000	15000	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
2-Hexanone	ND		25000	10000	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
4-Methyl-2-pentanone (MIBK)	ND		25000	1600	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Acetone	ND		25000	20000	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Benzene	**29000**		5000	950	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Bromodichloromethane	ND		5000	990	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Bromoform	ND		5000	2500	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Bromomethane	ND		5000	1100	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Carbon disulfide	ND		5000	2300	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Carbon tetrachloride	ND		5000	1300	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Chlorobenzene	ND		5000	660	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Chloroethane	ND		5000	1000	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Chloroform	ND		5000	3400	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Chloromethane	ND		5000	1200	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
cis-1,2-Dichloroethene	ND		5000	1400	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
cis-1,3-Dichloropropene	ND		5000	1200	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Cyclohexane	ND		5000	1100	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Dibromochloromethane	ND		5000	2400	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Dichlorodifluoromethane	ND		5000	2200	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Ethylbenzene	**240000**		5000	1400	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Isopropylbenzene	**7900**		5000	750	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Methyl acetate	ND		25000	2400	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Methyl tert-butyl ether	ND		5000	1900	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Methylcyclohexane	ND		5000	2300	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Methylene Chloride	ND	*	5000	980	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Styrene	**18000**		5000	1200	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Tetrachloroethene	ND		5000	670	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Toluene	**110000**		5000	1300	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
trans-1,2-Dichloroethene	ND		5000	1200	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
trans-1,3-Dichloropropene	ND		5000	490	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Trichloroethene	ND		5000	1400	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Trichlorofluoromethane	ND		5000	2300	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Vinyl chloride	ND		5000	1700	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40
Xylenes, Total	**190000**		9900	2800	ug/Kg	☼	09/23/20 14:22	09/25/20 16:21	40

Client Sample ID: SB-100
Date Collected: 09/17/20 09:35
Date Received: 09/17/20 15:15

Lab Sample ID: 480-175394-1
Matrix: Solid
Percent Solids: 85.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*109*		*53 - 146*	*09/23/20 14:22*	*09/25/20 16:21*	*40*
4-Bromofluorobenzene (Surr)	*105*		*49 - 148*	*09/23/20 14:22*	*09/25/20 16:21*	*40*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*09/23/20 14:22*	*09/25/20 16:21*	*40*
Toluene-d8 (Surr)	*106*		*50 - 149*	*09/23/20 14:22*	*09/25/20 16:21*	*40*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		21000	5700	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
2,4,6-Trichlorophenol	ND		21000	4200	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
2,4-Dichlorophenol	ND		21000	2200	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
2,4-Dimethylphenol	ND		21000	5100	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
2,4-Dinitrophenol	ND		210000	98000	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
2,4-Dinitrotoluene	ND		21000	4400	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
2,6-Dinitrotoluene	ND		21000	2500	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
2-Chloronaphthalene	ND		21000	3500	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
2-Chlorophenol	ND		41000	3900	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
2-Methylnaphthalene	**920000**	**E**	21000	4200	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
2-Methylphenol	ND		21000	2500	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
2-Nitroaniline	ND		41000	3100	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
2-Nitrophenol	ND		21000	6000	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
3,3'-Dichlorobenzidine	ND		41000	25000	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
3-Nitroaniline	ND		41000	5900	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
4,6-Dinitro-2-methylphenol	ND		41000	21000	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
4-Bromophenyl phenyl ether	ND		21000	3000	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
4-Chloro-3-methylphenol	ND		21000	5200	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
4-Chloroaniline	ND		21000	5200	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
4-Chlorophenyl phenyl ether	ND		21000	2600	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
4-Methylphenol	ND		41000	2500	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
4-Nitroaniline	ND		41000	11000	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
4-Nitrophenol	ND		41000	15000	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Acenaphthene	**110000**		21000	3100	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Acenaphthylene	**380000**		21000	2700	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Acetophenone	ND		21000	2900	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Anthracene	**240000**		21000	5200	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Atrazine	ND		21000	7400	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Benzaldehyde	ND		21000	17000	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Benzo[a]anthracene	**130000**		21000	2100	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Benzo[a]pyrene	**130000**		21000	3100	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Benzo[b]fluoranthene	**66000**		21000	3400	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Benzo[g,h,i]perylene	**51000**		21000	2200	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Benzo[k]fluoranthene	**30000**		21000	2700	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Biphenyl	**130000**		21000	3100	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
bis (2-chloroisopropyl) ether	ND		21000	4200	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Bis(2-chloroethoxy)methane	ND		21000	4500	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Bis(2-chloroethyl)ether	ND		21000	2700	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Bis(2-ethylhexyl) phthalate	ND		21000	7200	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Butyl benzyl phthalate	ND		21000	3500	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Caprolactam	ND		21000	6400	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Carbazole	**2800**	**J**	21000	2500	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Chrysene	**110000**		21000	4700	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20

Client Sample ID: SB-100
Lab Sample ID: 480-175394-1
Date Collected: 09/17/20 09:35
Matrix: Solid
Date Received: 09/17/20 15:15
Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	**12000**	**J**	21000	3700	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Dibenzofuran	ND		21000	2500	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Diethyl phthalate	ND		21000	2700	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Dimethyl phthalate	ND		21000	2500	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Di-n-butyl phthalate	ND		21000	3600	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Di-n-octyl phthalate	ND		21000	2500	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Fluoranthene	**220000**		21000	2200	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Fluorene	**200000**		21000	2500	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Hexachlorobenzene	ND		21000	2900	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Hexachlorobutadiene	ND		21000	3100	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Hexachlorocyclopentadiene	ND		21000	2900	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Hexachloroethane	ND		21000	2700	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Indeno[1,2,3-cd]pyrene	**34000**		21000	2600	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Isophorone	ND		21000	4500	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Naphthalene	**1200000**	**E**	21000	2700	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Nitrobenzene	ND		21000	2400	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
N-Nitrosodi-n-propylamine	ND		21000	3600	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
N-Nitrosodiphenylamine	ND		21000	17000	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Pentachlorophenol	ND		41000	21000	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Phenanthrene	**880000**	**E**	21000	3100	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Phenol	ND		21000	3200	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20
Pyrene	**480000**		21000	2500	ug/Kg	☼	09/22/20 13:14	09/23/20 18:58	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*59*		*53 - 120*	*09/22/20 13:14*	*09/23/20 18:58*	*20*
Phenol-d5 (Surr)	*55*		*54 - 120*	*09/22/20 13:14*	*09/23/20 18:58*	*20*
p-Terphenyl-d14 (Surr)	*100*		*79 - 130*	*09/22/20 13:14*	*09/23/20 18:58*	*20*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*54 - 120*	*09/22/20 13:14*	*09/23/20 18:58*	*20*
2-Fluorobiphenyl (Surr)	*89*		*60 - 120*	*09/22/20 13:14*	*09/23/20 18:58*	*20*
2-Fluorophenol (Surr)	*46*	*X*	*52 - 120*	*09/22/20 13:14*	*09/23/20 18:58*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**870000**		110000	21000	ug/Kg	☼	09/22/20 13:14	09/24/20 16:01	100
Naphthalene	**1100000**		110000	14000	ug/Kg	☼	09/22/20 13:14	09/24/20 16:01	100
Phenanthrene	**840000**		110000	16000	ug/Kg	☼	09/22/20 13:14	09/24/20 16:01	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*65*		*53 - 120*	*09/22/20 13:14*	*09/24/20 16:01*	*100*
Phenol-d5 (Surr)	*0*	*X*	*54 - 120*	*09/22/20 13:14*	*09/24/20 16:01*	*100*
p-Terphenyl-d14 (Surr)	*99*		*79 - 130*	*09/22/20 13:14*	*09/24/20 16:01*	*100*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*54 - 120*	*09/22/20 13:14*	*09/24/20 16:01*	*100*
2-Fluorobiphenyl (Surr)	*85*		*60 - 120*	*09/22/20 13:14*	*09/24/20 16:01*	*100*
2-Fluorophenol (Surr)	*0*	*X*	*52 - 120*	*09/22/20 13:14*	*09/24/20 16:01*	*100*

Client: New York State D.E.C.
Job ID: 480-175394-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: SB-103
Lab Sample ID: 480-175394-2
Date Collected: 09/17/20 11:15
Matrix: Solid
Date Received: 09/17/20 15:15
Percent Solids: 87.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1200	330	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
1,1,2,2-Tetrachloroethane	ND		1200	200	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1200	600	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
1,1,2-Trichloroethane	ND		1200	250	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
1,1-Dichloroethane	ND		1200	370	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
1,1-Dichloroethene	ND		1200	420	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
1,2,4-Trichlorobenzene	ND		1200	460	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
1,2-Dibromo-3-Chloropropane	ND		1200	600	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
1,2-Dibromoethane	ND		1200	210	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
1,2-Dichlorobenzene	ND		1200	310	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
1,2-Dichloroethane	ND		1200	490	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
1,2-Dichloropropane	ND		1200	200	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
1,3-Dichlorobenzene	ND		1200	320	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
1,4-Dichlorobenzene	ND		1200	170	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
2-Butanone (MEK)	ND		6000	3600	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
2-Hexanone	ND		6000	2500	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
4-Methyl-2-pentanone (MIBK)	ND		6000	390	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Acetone	ND		6000	5000	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Benzene	**390**	**J**	1200	230	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Bromodichloromethane	ND		1200	240	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Bromoform	ND		1200	600	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Bromomethane	ND		1200	270	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Carbon disulfide	ND		1200	550	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Carbon tetrachloride	ND		1200	310	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Chlorobenzene	ND		1200	160	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Chloroethane	ND		1200	250	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Chloroform	ND		1200	830	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Chloromethane	ND		1200	290	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
cis-1,2-Dichloroethene	ND		1200	330	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
cis-1,3-Dichloropropene	ND		1200	290	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Cyclohexane	ND		1200	270	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Dibromochloromethane	ND		1200	580	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Dichlorodifluoromethane	ND		1200	530	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Ethylbenzene	**26000**		1200	350	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Isopropylbenzene	**2300**		1200	180	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Methyl acetate	ND		6000	570	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Methyl tert-butyl ether	ND		1200	460	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Methylcyclohexane	ND		1200	560	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Methylene Chloride	ND	*	1200	240	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Styrene	ND		1200	290	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Tetrachloroethene	ND		1200	160	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Toluene	**500**	**J**	1200	320	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
trans-1,2-Dichloroethene	ND		1200	280	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
trans-1,3-Dichloropropene	ND		1200	120	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Trichloroethene	ND		1200	330	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Trichlorofluoromethane	ND		1200	570	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Vinyl chloride	ND		1200	400	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10
Xylenes, Total	**18000**		2400	670	ug/Kg	☼	09/23/20 14:22	09/25/20 16:44	10

Client Sample ID: SB-103
Date Collected: 09/17/20 11:15
Date Received: 09/17/20 15:15

Lab Sample ID: 480-175394-2
Matrix: Solid
Percent Solids: 87.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*53 - 146*	*09/23/20 14:22*	*09/25/20 16:44*	*10*
4-Bromofluorobenzene (Surr)	*105*		*49 - 148*	*09/23/20 14:22*	*09/25/20 16:44*	*10*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*09/23/20 14:22*	*09/25/20 16:44*	*10*
Toluene-d8 (Surr)	*105*		*50 - 149*	*09/23/20 14:22*	*09/25/20 16:44*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		1900	520	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
2,4,6-Trichlorophenol	ND		1900	390	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
2,4-Dichlorophenol	ND		1900	200	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
2,4-Dimethylphenol	ND		1900	470	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
2,4-Dinitrophenol	ND		19000	8900	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
2,4-Dinitrotoluene	ND		1900	400	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
2,6-Dinitrotoluene	ND		1900	230	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
2-Chloronaphthalene	ND		1900	320	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
2-Chlorophenol	ND		3800	350	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
2-Methylnaphthalene	**120000**	**E**	1900	390	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
2-Methylphenol	ND		1900	230	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
2-Nitroaniline	ND		3800	280	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
2-Nitrophenol	ND		1900	550	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
3,3'-Dichlorobenzidine	ND		3800	2300	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
3-Nitroaniline	ND		3800	530	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
4,6-Dinitro-2-methylphenol	ND		3800	1900	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
4-Bromophenyl phenyl ether	ND		1900	270	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
4-Chloro-3-methylphenol	ND		1900	480	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
4-Chloroaniline	ND		1900	480	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
4-Chlorophenyl phenyl ether	ND		1900	240	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
4-Methylphenol	ND		3800	230	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
4-Nitroaniline	ND		3800	1000	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
4-Nitrophenol	ND		3800	1400	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Acenaphthene	**62000**	**E**	1900	280	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Acenaphthylene	**7100**		1900	250	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Acetophenone	ND		1900	260	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Anthracene	**33000**		1900	480	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Atrazine	ND		1900	670	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Benzaldehyde	ND		1900	1500	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Benzo[a]anthracene	**18000**		1900	190	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Benzo[a]pyrene	**17000**		1900	280	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Benzo[b]fluoranthene	**9100**		1900	310	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Benzo[g,h,i]perylene	**6700**		1900	200	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Benzo[k]fluoranthene	**4200**		1900	250	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Biphenyl	**17000**		1900	280	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
bis (2-chloroisopropyl) ether	ND		1900	390	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Bis(2-chloroethoxy)methane	ND		1900	410	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Bis(2-chloroethyl)ether	ND		1900	250	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Bis(2-ethylhexyl) phthalate	ND		1900	660	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Butyl benzyl phthalate	ND		1900	320	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Caprolactam	ND		1900	580	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Carbazole	**330**	**J**	1900	230	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Chrysene	**13000**		1900	430	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10

Client Sample ID: SB-103
Date Collected: 09/17/20 11:15
Date Received: 09/17/20 15:15

Lab Sample ID: 480-175394-2
Matrix: Solid
Percent Solids: 87.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	**1600**	**J**	1900	340	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Dibenzofuran	**4400**		1900	230	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Diethyl phthalate	ND		1900	250	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Dimethyl phthalate	ND		1900	230	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Di-n-butyl phthalate	ND		1900	330	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Di-n-octyl phthalate	ND		1900	230	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Fluoranthene	**29000**		1900	200	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Fluorene	**26000**		1900	230	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Hexachlorobenzene	ND		1900	260	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Hexachlorobutadiene	ND		1900	280	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Hexachlorocyclopentadiene	ND		1900	260	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Hexachloroethane	ND		1900	250	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Indeno[1,2,3-cd]pyrene	**4500**		1900	240	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Isophorone	ND		1900	410	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Naphthalene	**130000**	**E**	1900	250	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Nitrobenzene	ND		1900	220	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
N-Nitrosodi-n-propylamine	ND		1900	330	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
N-Nitrosodiphenylamine	ND		1900	1600	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Pentachlorophenol	ND		3800	1900	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Phenanthrene	**120000**	**E**	1900	280	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Phenol	ND		1900	300	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10
Pyrene	**62000**	**E**	1900	230	ug/Kg	☼	09/22/20 13:14	09/23/20 19:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*58*		*53 - 120*	*09/22/20 13:14*	*09/23/20 19:24*	*10*
Phenol-d5 (Surr)	*54*		*54 - 120*	*09/22/20 13:14*	*09/23/20 19:24*	*10*
p-Terphenyl-d14 (Surr)	*88*		*79 - 130*	*09/22/20 13:14*	*09/23/20 19:24*	*10*
2,4,6-Tribromophenol (Surr)	*36*	*X*	*54 - 120*	*09/22/20 13:14*	*09/23/20 19:24*	*10*
2-Fluorobiphenyl (Surr)	*83*		*60 - 120*	*09/22/20 13:14*	*09/23/20 19:24*	*10*
2-Fluorophenol (Surr)	*44*	*X*	*52 - 120*	*09/22/20 13:14*	*09/23/20 19:24*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**110000**		9700	1900	ug/Kg	☼	09/22/20 13:14	09/24/20 16:26	50
Acenaphthene	**59000**		9700	1400	ug/Kg	☼	09/22/20 13:14	09/24/20 16:26	50
Naphthalene	**130000**		9700	1300	ug/Kg	☼	09/22/20 13:14	09/24/20 16:26	50
Phenanthrene	**110000**		9700	1400	ug/Kg	☼	09/22/20 13:14	09/24/20 16:26	50
Pyrene	**62000**		9700	1100	ug/Kg	☼	09/22/20 13:14	09/24/20 16:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*53*		*53 - 120*	*09/22/20 13:14*	*09/24/20 16:26*	*50*
Phenol-d5 (Surr)	*45*	*X*	*54 - 120*	*09/22/20 13:14*	*09/24/20 16:26*	*50*
p-Terphenyl-d14 (Surr)	*0*	*X*	*79 - 130*	*09/22/20 13:14*	*09/24/20 16:26*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*54 - 120*	*09/22/20 13:14*	*09/24/20 16:26*	*50*
2-Fluorobiphenyl (Surr)	*76*		*60 - 120*	*09/22/20 13:14*	*09/24/20 16:26*	*50*
2-Fluorophenol (Surr)	*0*	*X*	*52 - 120*	*09/22/20 13:14*	*09/24/20 16:26*	*50*

Client: New York State D.E.C.
Job ID: 480-175394-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: SB-106
Lab Sample ID: 480-175394-3
Date Collected: 09/17/20 13:00
Matrix: Solid
Date Received: 09/17/20 15:15
Percent Solids: 91.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		450	130	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
1,1,2,2-Tetrachloroethane	ND		450	74	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		450	230	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
1,1,2-Trichloroethane	ND		450	95	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
1,1-Dichloroethane	ND		450	140	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
1,1-Dichloroethene	ND		450	160	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
1,2,4-Trichlorobenzene	ND		450	170	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
1,2-Dibromo-3-Chloropropane	ND		450	230	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
1,2-Dibromoethane	ND		450	79	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
1,2-Dichlorobenzene	ND		450	120	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
1,2-Dichloroethane	ND		450	190	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
1,2-Dichloropropane	ND		450	74	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
1,3-Dichlorobenzene	ND		450	120	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
1,4-Dichlorobenzene	ND		450	64	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
2-Butanone (MEK)	ND		2300	1300	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
2-Hexanone	ND		2300	930	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
4-Methyl-2-pentanone (MIBK)	ND		2300	150	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Acetone	ND		2300	1900	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Benzene	ND		450	86	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Bromodichloromethane	ND		450	91	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Bromoform	ND		450	230	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Bromomethane	ND		450	100	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Carbon disulfide	ND		450	210	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Carbon tetrachloride	ND		450	120	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Chlorobenzene	ND		450	60	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Chloroethane	ND		450	94	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Chloroform	ND		450	310	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Chloromethane	ND		450	110	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
cis-1,2-Dichloroethene	ND		450	130	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
cis-1,3-Dichloropropene	ND		450	110	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Cyclohexane	ND		450	100	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Dibromochloromethane	ND		450	220	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Dichlorodifluoromethane	ND		450	200	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Ethylbenzene	ND		450	130	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Isopropylbenzene	ND		450	68	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Methyl acetate	ND		2300	220	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Methyl tert-butyl ether	ND		450	170	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Methylcyclohexane	ND		450	210	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Methylene Chloride	**3800**	**B ***	450	90	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Styrene	ND		450	110	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Tetrachloroethene	ND		450	61	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Toluene	ND		450	120	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
trans-1,2-Dichloroethene	ND		450	110	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
trans-1,3-Dichloropropene	ND		450	45	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Trichloroethene	ND		450	130	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Trichlorofluoromethane	ND		450	210	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Vinyl chloride	ND		450	150	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4
Xylenes, Total	ND		910	250	ug/Kg	☼	09/23/20 14:22	09/25/20 17:07	4

Client Sample ID: SB-106
Lab Sample ID: 480-175394-3
Date Collected: 09/17/20 13:00
Matrix: Solid
Date Received: 09/17/20 15:15
Percent Solids: 91.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*53 - 146*	*09/23/20 14:22*	*09/25/20 17:07*	*4*
4-Bromofluorobenzene (Surr)	*111*		*49 - 148*	*09/23/20 14:22*	*09/25/20 17:07*	*4*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*09/23/20 14:22*	*09/25/20 17:07*	*4*
Toluene-d8 (Surr)	*105*		*50 - 149*	*09/23/20 14:22*	*09/25/20 17:07*	*4*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		3700	1000	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
2,4,6-Trichlorophenol	ND		3700	740	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
2,4-Dichlorophenol	ND		3700	390	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
2,4-Dimethylphenol	ND		3700	900	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
2,4-Dinitrophenol	ND		36000	17000	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
2,4-Dinitrotoluene	ND		3700	760	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
2,6-Dinitrotoluene	ND		3700	440	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
2-Chloronaphthalene	ND		3700	610	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
2-Chlorophenol	ND		7200	680	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
2-Methylnaphthalene	**2200**	**J**	3700	740	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
2-Methylphenol	ND		3700	440	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
2-Nitroaniline	ND		7200	550	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
2-Nitrophenol	ND		3700	1000	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
3,3'-Dichlorobenzidine	ND		7200	4400	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
3-Nitroaniline	ND		7200	1000	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
4,6-Dinitro-2-methylphenol	ND		7200	3700	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
4-Bromophenyl phenyl ether	ND		3700	520	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
4-Chloro-3-methylphenol	ND		3700	920	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
4-Chloroaniline	ND		3700	920	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
4-Chlorophenyl phenyl ether	ND		3700	460	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
4-Methylphenol	ND		7200	440	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
4-Nitroaniline	ND		7200	1900	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
4-Nitrophenol	ND		7200	2600	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Acenaphthene	**17000**		3700	550	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Acenaphthylene	**790**	**J**	3700	480	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Acetophenone	ND		3700	500	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Anthracene	**18000**		3700	920	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Atrazine	ND		3700	1300	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Benzaldehyde	ND		3700	2900	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Benzo[a]anthracene	**18000**		3700	370	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Benzo[a]pyrene	**16000**		3700	550	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Benzo[b]fluoranthene	**16000**		3700	590	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Benzo[g,h,i]perylene	**7100**		3700	390	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Benzo[k]fluoranthene	**7200**		3700	480	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Biphenyl	ND		3700	550	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
bis (2-chloroisopropyl) ether	ND		3700	740	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Bis(2-chloroethoxy)methane	ND		3700	790	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Bis(2-chloroethyl)ether	ND		3700	480	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Bis(2-ethylhexyl) phthalate	ND		3700	1300	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Butyl benzyl phthalate	ND		3700	610	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Caprolactam	ND		3700	1100	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Carbazole	**4500**		3700	440	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Chrysene	**18000**		3700	830	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20

Client: New York State D.E.C.
Job ID: 480-175394-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: SB-106
Lab Sample ID: 480-175394-3
Date Collected: 09/17/20 13:00
Matrix: Solid
Date Received: 09/17/20 15:15
Percent Solids: 91.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	**2000**	**J**	3700	660	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Dibenzofuran	**10000**		3700	440	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Diethyl phthalate	ND		3700	480	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Dimethyl phthalate	ND		3700	440	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Di-n-butyl phthalate	ND		3700	630	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Di-n-octyl phthalate	ND		3700	440	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Fluoranthene	**61000**		3700	390	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Fluorene	**16000**		3700	440	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Hexachlorobenzene	ND		3700	500	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Hexachlorobutadiene	ND		3700	550	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Hexachlorocyclopentadiene	ND		3700	500	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Hexachloroethane	ND		3700	480	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Indeno[1,2,3-cd]pyrene	**5800**		3700	460	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Isophorone	ND		3700	790	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Naphthalene	**2800**	**J**	3700	480	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Nitrobenzene	ND		3700	410	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
N-Nitrosodi-n-propylamine	ND		3700	630	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
N-Nitrosodiphenylamine	ND		3700	3000	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Pentachlorophenol	ND		7200	3700	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Phenanthrene	**78000**		3700	550	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Phenol	ND		3700	570	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20
Pyrene	**51000**		3700	440	ug/Kg	☼	09/22/20 13:14	09/23/20 19:49	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*55*		*53 - 120*	*09/22/20 13:14*	*09/23/20 19:49*	*20*
Phenol-d5 (Surr)	*60*		*54 - 120*	*09/22/20 13:14*	*09/23/20 19:49*	*20*
p-Terphenyl-d14 (Surr)	*98*		*79 - 130*	*09/22/20 13:14*	*09/23/20 19:49*	*20*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*54 - 120*	*09/22/20 13:14*	*09/23/20 19:49*	*20*
2-Fluorobiphenyl (Surr)	*92*		*60 - 120*	*09/22/20 13:14*	*09/23/20 19:49*	*20*
2-Fluorophenol (Surr)	*46*	*X*	*52 - 120*	*09/22/20 13:14*	*09/23/20 19:49*	*20*

CHAIN OF CUSTODY

Client: New York State Dept. of Environmental Conservation

PAGE OF

FED-EX Tracking #	Bottle Order Control #
Lab Quote #	Lab Job #

NYSDEC Sp#19-08440 Call out 137663 PIN 08647 Site Name Manwarren Residence

CLIENT/REPORTING INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
Groundwater & Environmental Services, Inc. 415 Lawrence Bell Drive, Williamsville, NY 14221 **Project Manager:** Thomas Palmer **Phone #:** 800-287-7857 Email: NERegion@gesonline.com fax **866-902-2187**	**Project Name:** NYSDEC/Buffalo/NY/TonawandaSt/31-Off-Site **Project Address:** 31 Tonawanda Street, Buffalo, NY **Project PSID #:** 853503	**NYSDEC** **NYSDEC PM:** John Kane **Phone Number:** (607) 775-2545 **Email:** john.kane@dec.ny.gov **Lab PM:** Judy Stone GES Job #0603143/02/201//1106

Sampler(s) Name:

Sampler(s) Name:

Lab Sample #	Field ID / Point of Collection (Sys_loc_code)	Depth Interval (ft)	Date Sampled	Time Sampled	Sampler	Matrix	Total # Bottles	number of preserved bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Amber	Metals + Mercury via 6010C/7471B	VOCs ~~STARS listed compunds via~~ 8260C TCL	SVOCs ~~STARS listed compunds via~~ 8270D TCL	PCBs via 8082A	MS/MSD	LAB USE ONLY
	SB-100	26-27	9-17-20	935		SS												X	X			
	SB-103	22-22.5	1	1115		SS																
	SB-106	17-18	1	1300		SS																
						SS																
						SS																
						SS																
						SS																
						SS																
						SS																
						SS																
						SS																
						SS																



Turnaround Time (Business Days) — **Approved By (Lab PM) / Date**

- [x] Standard 14 Days
- [ ] 1 day RUSH
- [ ] Other

Laboratory Information

Lab: TestAmerica Buffalo
Address: 10 Hazelwood Drive, Amherst, NY
Phone: 716-961-2600
Lab PM: Judy Stone
Lab PM Email:

Data Deliverable Information

- [ ] Commercial 'A' (Level 1) = Results Only
- [ ] Commercial 'B' (Level 2) = Results + QC Summary
- [ ] FULLT1 (Level 3 & 4)
- [ ] NJ Reduced = Results + QC Summary + Partial Raw Data
- [ ] Commercial 'C'
- [ ] *NJ Data of Known Quality Protocol Reporting*
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] NYDEC EDD
- [ ] EQEDD

Please Email the EQ EDD Package to ges@equisonline.com

EQEDD Name: NYSDEC/Buffalo/NY/TonawandaSt/31-Off-Site_LabReport#.31078.EQEDD.zip

Sample Custody must be documented below each time samples change possession, including courier.

	Relinquished By Sampler:	Date / Time:	Received By:
1	GES	9-17-20 1515	15:15
2	Relinquished By:	Date / Time:	Received By:
3	Relinquished By:	Date / Time:	Received By:

Custody Seal Number: [ ] Intact [ ] Not Intact [ ] Preserved where applicable [ ] On Ice **Cooler Temp** 3.2 3.0 #1

9/30/2020

GROUNDWATER

1989 CRA
SITE INVESTIGATION REPORT

ADVANCED
ENVIRONMENTAL SERVICES INC.

ANALYSIS OF GROUNDWATER SAMPLES
PHASE II SITE INVESTIGATION

Report Prepared For

FEDCO AUTOMOTIVE

Donovan L. Klaaren
Project Manager

Paul T. McMahon
Technical Evaluation

September 1, 1989
AES Report EGT

COMMITMENT
TO
HONESTY - QUALITY - SERVICE

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TCL VOLATILES

Units of Measure: Micrograms/ Liter or ppb
Client: FEDCO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- 11191 / Sample ID - MW 1 / Sample Date- GRAB WATER	11192 MW 11 GRAB WATER
Chloromethane	8240	10	BQL *	BQL
Vinyl Chloride	"	"	99	100
Chloroethane	"	"	BQL	BQL
Bromomethane	"	"	BQL	BQL
2-Chloroethyl Vinyl Ether	"	"	BQL	BQL
Ethylbenzene	"	5.0	9.1	11
Methylene Chloride	"	"	BQL	BQL
Chlorobenzene	"	"	BQL	BQL
1,1-Dichloroethylene	"	"	BQL	BQL
1,1-Dichloroethane	"	"	41	40
trans-1,2-Dichloroethylene	"	"	BQL	BQL
Chloroform	"	"	BQL	BQL
1,2-Dichloroethane	"	"	BQL	BQL
1,1,1-Trichloroethane	"	"	22	23
Carbon Tetrachloride	"	"	BQL	BQL
Bromodichloromethane	"	"	BQL	BQL
1,2-Dichloropropane	"	"	BQL	BQL
trans-1,3-Dichloropropene	"	"	BQL	BQL
Trichloroethylene	"	"	BQL	BQL
Benzene	"	"	60	63
cis-1,3-Dichloropropene	"	"	BQL	BQL
1,1,2-Trichloroethane	"	"	BQL	BQL
Bromoform	"	"	BQL	BQL

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01 '89 11:52 AES

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TCL VOLATILES

Units of Measure: Micrograms/ Liter or ppb
Client: FEDCO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.-	11191	11192
			Sample ID -	MW 1 GRAB	MW 11 GRAB
			Sample Date-	WATER	WATER
1,1,2,2-Tetrachloroethylene	8240	5.0		BQL *	BQL
1,1,2,2-Tetrachloroethane	"	5.0		BQL	BQL
Toluene	"	5.0		BQL	BQL
Acetone	"	50		BQL	BQL
Carbon Disulfide	"	5.0		BQL	BQL
2-Butanone	"	50		BQL	BQL
Vinyl Acetate	"	10		BQL	BQL
2-Hexanone	"	50		BQL	BQL
4-Methyl-2-Pentanone	"	50		BQL	BQL
Styrene	"	5.0		BQL	BQL
o-Xylene	"	5.0		BQL	BQL
m/p-Xylene	"	5.0		BQL	BQL

* Below Quantifiable Limits

WJJ

Wayne J. Juda
Organic Supervisor

SEP 01 '89 11:52 AES

P.1

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TCL VOLATILES

Units of Measure: Micrograms/ Liter or ppb
Client: FEDCO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID - / Sample Date-	11193 MW 2 WATER GRAB	11194 TRIP BLANK GRAB
Chloromethane	8240	10		BQL *	BQL
Vinyl Chloride	"	"		350	BQL
Chloroethane	"	"		BQL	BQL
Bromomethane	"	"		BQL	BQL
2-Chloroethyl Vinyl Ether	"	"		BQL	BQL
Ethylbenzene	"	5.0		BQL	BQL
Methylene Chloride	"	"		BQL	BQL
Chlorobenzene	"	"		BQL	BQL
1,1-Dichloroethylene	"	"		15	BQL
1,1-Dichloroethane	"	"		39	BQL
trans-1,2-Dichloroethylene	"	"		12	BQL
Chloroform	"	"		BQL	BQL
1,2-Dichloroethane	"	"		BQL	BQL
1,1,1-Trichloroethane	"	"		22	BQL
Carbon Tetrachloride	"	"		BQL	BQL
Bromodichloromethane	"	"		BQL	BQL
1,2-Dichloropropane	"	"		BQL	BQL
trans-1,3-Dichloropropene	"	"		BQL	BQL
Trichloroethylene	"	"		310	BQL
Benzene	"	"		76	BQL
cis-1,3-Dichloropropene	"	"		BQL	BQL
1,1,2-Trichloroethane	"	"		BQL	BQL
Bromoform	"	"		BQL	BQL

WJJ

Wayne J. Juda
Organic Supervisor

* Below Quantifiable Limits

SEP 01 '89 11:53 AES

P.5

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TCL VOLATILES

Units of Measure: Micrograms/ Liter or ppb
Client: FEDCO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID - / Sample Date-	11193 MW 2 WATER GRAB	11194 TRIP BLANK GRAB
1,1,2,2-Tetrachloroethylene	8240	5.0		BQL *	BQL
1,1,2,2-Tetrachloroethane	"	5.0		BQL	BQL
Toluene	"	5.0		BQL	BQL
Acetone	"	50		BQL	BQL
Carbon Disulfide	"	5.0		BQL	BQL
2-Butanone	"	50		BQL	BQL
Vinyl Acetate	"	10		BQL	BQL
2-Hexanone	"	50		BQL	BQL
4-Methyl-2-Pentanone	"	50		BQL	BQL
Styrene	"	5.0		BQL	BQL
o-Xylene	"	5.0		BQL	BQL
m/p-Xylene	"	5.0		BQL	BQL

* Below Quantifiable Limits

WJJ

Wayne J. Juda
Organic Supervisor

SEP 01 '89 11:53 AES

P.5

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: POLYCHLORINATED BIPHENYLS

Units of Measure: Micrograms/ Liter or ppb
Client: FEDCO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID - / Sample Date-	11191 MW - 1 WATER 08/23/89	11192 MW - 11 WATER 08/23/89	11193 MW - 2 WATER 08/23/89
PCB's	EPA608	0.50		BQL *	BQL	BQL

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 01 '89 15:38 AES

P.3

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: PETROLEUM PRODUCTS

Units of Measure: Microliters/ Liter or ppm
Client: FEDCO A.E.S. Job Code EGT

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID - / Sample Date-	11191 MW - 1 WATER 08/23/89	11192 MW - 11 WATER 08/23/89	11193 MW - 2 WATER 08/23/89
Kerosene	310-13	0.75		BQL *	BQL	BQL
Fuel Oil #2	"	"		BQL	BQL	BQL
Fuel Oil #4	"	"		BQL	BQL	BQL
Fuel Oil #6	"	"		BQL	BQL	BQL
Lubricating Oils	"	---		None Det	None Det	None Det
Gasoline	"	---		None Det	None Det	None Det

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

SEP 07 '89 15:38 AES

P.2

ADVANCED ENVIRONMENTAL SERVICES, INC.
PARAMETER TRACEABILITY REPORT
GAS CHROMATOGRAPHY DEPARTMENT

AES JOB CODE EGT

ANALYST	ANALYTICAL METHOD	SAMPLE CODE	DATE OF ANALYSIS	TIME OF ANALYSIS
Wayne J. for cm	EPA 608	"1191 - "1193	August 27-28, 1989	1:00
Patricia Zamora	310-13	1191,92	8/29/89	2130
J Sirocchi	310-13	1193	8/30/89	850

ADVANCED ENVIRONMENTAL SERVICES, INC.
PARAMETER TRACEABILITY REPORT
GAS CHROMATOGRAPHY DEPARTMENT

AES JOB CODE E6T

ANALYST	ANALYTICAL METHOD	SAMPLE CODE	DATE OF ANALYSIS	TIME OF ANALYSIS
Jim Tuft	8240	11191 - 11194	8/30/89	1000 - 1400

ADVANCED ENVIRONMENTAL SERVICES INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NY 14304
(716) 283-3120

CHAIN OF CUSTODY RECORD

JOB CODE: EGT

PROJECT NAME: FEDCO #3042

SAMPLER'S SIGNATURE: [signature]

SAMPLE NO.	SEQ. NO.	DATE	TIME	SAMPLE LOCATION	GRAB	COMP	SAMPLE TYPE	NO. OF CONTAINERS	REMARKS
		8/23/89	1410	MW-1	X		Water	2	PCB & Petro Prod
		8/23/89	1440	MW-11	X		Water	2	PCB + Petro Prod
		8/23/89	1520	MW-2	X		Water	2	PCB & Petro Prod
		8/23/89	1410	MW-1	X		Water	2	VOA's
		8/23/89	1440	MW-11	X		Water	2	VOA's
		8/23/89	1520	MW-2	X		Water	2	VOA's
				~~Field~~ Blank Trip	X		Water	2	VOA's
							TOTAL CONTAINERS	14	

	DATE	TIME	
1 RELINQUISHED BY (Sign): [signature]	8/23/89	1620	2 RECEIVED BY (Sign): [signature]
2 RELINQUISHED BY (Sign):	DATE	TIME	3 RECEIVED BY (Sign):
3 RELINQUISHED BY (Sign):	DATE	TIME	4 RECEIVED BY (Sign):
4 RELINQUISHED BY (Sign):	DATE	TIME	5 RECEIVED BY (Sign):

REMARKS:

1992 NYSDEC
PHASE II INVESTIGATION REPORT

DATA SUMMARY FORM: V O L A T I L E S 1

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

WATER SAMPLES
(ug/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	GW-1	GW-1RE	GW-2	GW-3	GW-3RE	SW-1	SW-2	SW-3	VBLKW1
	Sample No.									
	Dilution Factor	1.0	1.0	5.0	1.0	1.0	1.0	1.0	1.0	1.0
	Location		more acceptable		more acceptable					
10	Chloromethane		UJ		UJ					
10	Bromomethane		↓		↓					
10	*Vinyl Chloride									
10	Chloroethane									
5	*Methylene Chloride	8 B	6 B	32 B	7 B	6 B	6 B	14 B	4 B	9
10	Acetone		UJ	29 B	UJ	3 B	13 B	10 B	6 B	
5	Carbon Disulfide		↓		↓					
5	*1,1-Dichloroethene									
5	1,1-Dichloroethane		6 J	53	7 J	6				
5	*Total-1,2-Dichloroethene		8 J	340	7 J	8				
5	Chloroform		UJ		UJ					
5	*1,2-Dichloroethane		↓		↓					
10	*2-Butanone									
5	*1,1,1-Trichloroethane		24 J	370	30 J	26				
5	*Carbon Tetrachloride		UJ		UJ					
10	Vinyl Acetate		↓		↓					
5	Bromodichloromethane									

CRDL = Contract Required Detection Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

NOTE: The Glossary of Data Qualifiers for the Data Summary Forms appears on page D-41.

DATA SUMMARY FORM: V O L A T I L E S 2

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

WATER SAMPLES (ug/L)

To calculate sample quantitation limit: (CRQL * Dilution Factor)

	Sample No.	GW-1	GW-1RE	GW-2	GW-3	GW-3RE	SW-1	SW-2	SW-3	VBLKW1
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Location		more acceptable		more acceptable					
CRQL	COMPOUND									
5	*1,2-Dichloropropane		UJ		UJ					
5	Cis-1,3 Dichloropropene		↓		↓					
5	Trichloroethene	11	19 J	640	23 J	20				
5	Dibromochloromethane		UJ		UJ					
5	1,1,2 Trichloroethane		↓		↓					
5	*Benzene									
5	Trans-1,3 Dichloropropene									
5	Bromoform									
10	4-Methyl 2 pentanone									
10	2 Hexanone									
5	*Tetrachloroethene									
5	1,1,2,2 Tetrachloroethane									
5	*Toluene									
5	*Chlorobenzene									
5	*Ethylbenzene									
5	*Styrene									
5	*Total Xylenes		↓		↓					

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

recycled paper

ecology and environment

DATA SUMMARY FORM: B N A S 1

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

WATER SAMPLES
(ug/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

	Sample No.	DW092490	GW-1	GW-2	GW-3	SW-1	SW-2	SW-3	SBLKW01	SBLKW02
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Location									
CRQL	COMPOUND									
10	Phenol				16					
10	bis(2-Chloroethyl)ether									
10	2 Chlorophenol									
10	*1,3-Dichlorobenzene									
10	*1,4-Dichlorobenzene									
10	Benzyl Alcohol									
10	1,2 Dichlorobenzene				2 J					
10	2 Methylphenol									
10	bis(2-Chloroisopropyl)ether									
10	4 Methylphenol									
10	N-Nitroso-di-n-propylamine									
10	Hexachloroethane									
10	Nitrobenzene									
10	Isophorone									
10	2 Nitrophenol									
10	2,4 Dimethylphenol									
50	Benzoic Acid									
10	bis(2-Chloroethoxy)methane									
10	2,4 Dichlorophenol									
10	1,2,4-Trichlorobenzene				5 J					
10	Naphthalene									
10	4-Chloroaniline									

CRDL = Contract Required Detection Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

DATA SUMMARY FORM: B N A S 2

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

WATER SAMPLES
(ug/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	Sample No.	DW092490		GW-1		GW-2		GW-3		SW-1		SW-2		SW-3		SBLKW1		SBLKW2	
		Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
		Location																		
10	Hexachlorobutadiene																			
10	4-Chloro-3-methylphenol																			
10	2-Methylnaphthalene																			
10	Hexachlorocyclopentadiene																			
10	2,4,6-Trichlorophenol																			
50	2,4,5-Trichlorophenol																			
10	2-Chloronaphthalene																			
50	2-Nitroaniline																			
10	Dimethylphthalate																			
10	Acenaphthylene																			
10	2,6 Dinitrotoluene																			
50	3-Nitroaniline																			
10	Acenaphthene																			
50	2,4-Dinitrophenol																			
50	4-Nitrophenol																			
10	Dibenzofuran																			
10	2,4-Dinitrotoluene																			
10	Diethylphthalate						2	J												
10	4-Chlorophenyl-phenylether																			
10	Fluorene																			
50	4-Nitroaniline																			
50	4,6-Dinitro-2-methylphenol																			

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

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ecology and environment

DATA SUMMARY FORM: B N A S 3

Site Name: Feddeus Auto Component

Case #: 9002-359 Sampling Date(s): _____

WATER SAMPLES
(ug/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

	Sample No.	DW12490		GW-1		GW-2		GW-3		SW-1		SW-2		SW-3		SBLKW1		SBLKW2	
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	Location																		
CRDL	COMPOUND																		
10	N Nitrosodiphenylamine																		
10	4 Bromophenyl phenylether																		
10	*Hexachlorobenzene							2	J										
50	*Pentachlorophenol																		
10	Phenanthrene			2	J			1	J										
10	Anthracene																		
10	Di-n-butylphthalate			5	J	4	J	2	J	2	J	7	J	4	J				
10	Fluoranthene			3	J	1	J	1	J										
10	Pyrene			3	J	1	J	2	J										
10	Butylbenzylphthalate																		
20	3,3 Dichlorobenzidine																		
10	Benzo(a)anthracene																		
10	Chrysene																		
10	bis(2 Ethylhexyl)phthalate	2	B	16	B	14	B	18	B	5	B	12	B	12	B	3	J	9	J
10	Di-n-octylphthalate																		
10	Benzo(b)fluoranthene			2	J														
10	Benzo(k)fluoranthene																		
10	Benzo(a)pyrene			1	J														
10	Indeno(1,2,3-cd)pyrene																		
10	Dibenz(a,h)anthracene																		
10	Benzo(g,h,i)perylene																		

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

WATER SAMPLES (ug/L)

To calculate sample quantitation limit: (CRQL * Dilution Factor)

CRQL	COMPOUND	Sample No.	DW09249O	GW-1	GW-2	GW-3	SW-1	SW-2	SW-3	PBLKW1	PBLKW4
		Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		Location									
0.05	Alpha-BHC										
0.05	Beta-BHC										
0.05	Delta-BHC				0.073						
0.05	*Gamma-BHC (Lindane)										
0.05	*Heptachlor										
0.05	Aldrin										
0.05	Heptachlor Epoxide										
0.05	Endosulfan I										
0.10	Dieldrin										
0.10	4,4'-DDE										
0.10	*Endrin										
0.10	Endosulfan II										
0.10	4,4'-DDD										
0.10	Endosulfan Sulfate										
0.10	4,4'-DDT										
0.5	*Methoxychlor										
0.10	Endrin ketone										
0.5	*Alpha-Chlordane										
0.5	*Gamma-Chlordane										
1.0	*Toxaphene										
0.5	*Aroclor-1016										
0.5	*Aroclor-1221										
0.5	*Aroclor-1232										
0.5	*Aroclor-1242										
0.5	*Aroclor-1248										
1.0	*Aroclor-1254										
1.0	*Aroclor-1260										

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

DATA SUMMARY FORM: I N O R G A N I C S

Site Name: Fedders Auto Component

Case #: 9002-359 Sampling Date(s): _____

WATER SAMPLES
(ug/L)

+Due to dilution, sample quantitation limit is affected. See dilution table for specifics.

CRDL	ANALYTE	Sample No.		DW09		GW-1		GW-2		GW-3		SW-1		SW-2		SW-3									
		Dilution Factor		1.0		1.0		1.0		1.0		1.0		1.0		1.0									
		Location																							
200	Aluminum			1300		845		243	B	227	B	352	B	509	B	296	B								
60	Antimony																								
10	*Arsenic			[2.7]		[2.4]																			
200	Barium			[37.5]		[60.4]		[44.5]		[56.9]		[63.7]		[64.3]		[60.1]									
5	Beryllium																								
5	*Cadmium			6.4																					
5000	Calcium			31200		81700		76800		129000		173000		169000		176000									
10	*Chromium																								
50	Cobalt																								
25	Copper			35.5																					
100	Iron			21800		2130		489		638		784		1130		582									
3	*Lead			61		4.5		3.2		3.1		7.5		15.0		10.6									
5000	Magnesium			7760		53100		11700		35900		23800		23300		23200									
15	Manganese			202		299		123		132		56.0		62.5		54.2									
0.2	Mercury																								
40	*Nickel																								
5000	Potassium			[1100]		11600		[3650]		9950		[3680]		[3730]		[3850]									
5	Selenium		UL		UL		UL		UL		UL		UL		UL		UL								
10	Silver																								
5000	Sodium			8860		516000		47200		173000		58100		57400		56000									
10	Thallium																								
50	Vanadium																								
20	Zinc			66.2		447		94.4		71.3		54.6		45.9		35.1									
10	*Cyanide					27900																			

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

GLOSSARY OF DATA QUALIFIERS

CODES RELATING TO IDENTIFICATION

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm results.

CODES RELATING TO QUANTITATION

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value expected to be higher.

[]= Inorganic analyte present. As values approach the IDL the quantitation may not be accurate.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

2020 BE3
REMEDIAL INVESTIGATION/ ALTERNATIVES ANALYSIS REPORT

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-1
Lab Sample ID: 200375-01 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		1/30/2020 16:46
Barium	**0.0665**	mg/L	J	1/30/2020 16:46
Beryllium	< 0.00500	mg/L		1/28/2020 18:17
Cadmium	< 0.00500	mg/L		1/29/2020 20:29
Chromium	< 0.0100	mg/L		1/28/2020 18:17
Copper	< 0.0400	mg/L		1/28/2020 18:17
Lead	**0.00700**	mg/L	J	1/30/2020 11:56
Manganese	**0.0316**	mg/L		1/28/2020 18:17
Nickel	< 0.0400	mg/L		1/28/2020 18:17
Selenium	< 0.0200	mg/L		1/31/2020 14:35
Silver	< 0.0100	mg/L		1/28/2020 18:17
Zinc	**0.256**	mg/L		1/28/2020 18:17

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 1/27/2020
Data File: 200130B

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW-1		
Lab Sample ID:	200375-01	**Date Sampled:**	1/22/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		1/28/2020 13:22

Method Reference(s): EPA 7470A
Preparation Date: 1/27/2020
Data File: Hg200128A

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-1
Lab Sample ID: 200375-01 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.04	ug/L		1/27/2020 17:25
PCB-1221	< 1.04	ug/L		1/27/2020 17:25
PCB-1232	< 1.04	ug/L		1/27/2020 17:25
PCB-1242	< 1.04	ug/L		1/27/2020 17:25
PCB-1248	< 1.04	ug/L		1/27/2020 17:25
PCB-1254	< 1.04	ug/L		1/27/2020 17:25
PCB-1260	< 1.04	ug/L		1/27/2020 17:25
PCB-1262	< 1.04	ug/L		1/27/2020 17:25
PCB-1268	< 1.04	ug/L		1/27/2020 17:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**64.7**	17.5 - 93.9		1/27/2020 17:25

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 1/27/2020

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-1
Lab Sample ID: 200375-01 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 0.207	ug/L		1/27/2020 18:08
4,4-DDE	< 0.207	ug/L		1/27/2020 18:08
4,4-DDT	< 0.207	ug/L		1/27/2020 18:08
Aldrin	< 0.207	ug/L		1/27/2020 18:08
alpha-BHC	< 0.207	ug/L		1/27/2020 18:08
beta-BHC	< 0.207	ug/L		1/27/2020 18:08
cis-Chlordane	< 0.207	ug/L		1/27/2020 18:08
delta-BHC	< 0.207	ug/L		1/27/2020 18:08
Dieldrin	< 0.207	ug/L		1/27/2020 18:08
Endosulfan I	< 0.207	ug/L		1/27/2020 18:08
Endosulfan II	< 0.207	ug/L		1/27/2020 18:08
Endosulfan Sulfate	< 0.207	ug/L		1/27/2020 18:08
Endrin	< 0.207	ug/L		1/27/2020 18:08
Endrin Aldehyde	< 0.207	ug/L		1/27/2020 18:08
Endrin Ketone	< 0.207	ug/L		1/27/2020 18:08
gamma-BHC (Lindane)	< 0.207	ug/L		1/27/2020 18:08
Heptachlor	< 0.207	ug/L		1/27/2020 18:08
Heptachlor Epoxide	< 0.207	ug/L		1/27/2020 18:08
Methoxychlor	< 0.207	ug/L		1/27/2020 18:08
Toxaphene	< 2.07	ug/L		1/27/2020 18:08
trans-Chlordane	< 0.207	ug/L		1/27/2020 18:08

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-1
Lab Sample ID: 200375-01 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**21.1**	18.1 - 158		1/27/2020 18:08
Tetrachloro-m-xylene (1)	**75.6**	33.4 - 94.3		1/27/2020 18:08

Method Reference(s): EPA 8081B
EPA 3510C
Preparation Date: 1/27/2020

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-1
Lab Sample ID: 200375-01 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.1	ug/L		1/24/2020 16:46
1,2,4,5-Tetrachlorobenzene	< 10.1	ug/L		1/24/2020 16:46
1,2,4-Trichlorobenzene	< 10.1	ug/L		1/24/2020 16:46
1,2-Dichlorobenzene	< 10.1	ug/L		1/24/2020 16:46
1,3-Dichlorobenzene	< 10.1	ug/L		1/24/2020 16:46
1,4-Dichlorobenzene	< 10.1	ug/L		1/24/2020 16:46
2,2-Oxybis (1-chloropropane)	< 10.1	ug/L		1/24/2020 16:46
2,3,4,6-Tetrachlorophenol	< 10.1	ug/L		1/24/2020 16:46
2,4,5-Trichlorophenol	< 20.3	ug/L		1/24/2020 16:46
2,4,6-Trichlorophenol	< 10.1	ug/L		1/24/2020 16:46
2,4-Dichlorophenol	< 10.1	ug/L		1/24/2020 16:46
2,4-Dimethylphenol	< 20.3	ug/L		1/24/2020 16:46
2,4-Dinitrophenol	< 20.3	ug/L		1/24/2020 16:46
2,4-Dinitrotoluene	< 10.1	ug/L		1/24/2020 16:46
2,6-Dinitrotoluene	< 10.1	ug/L		1/24/2020 16:46
2-Chloronaphthalene	< 10.1	ug/L		1/24/2020 16:46
2-Chlorophenol	< 10.1	ug/L		1/24/2020 16:46
2-Methylnapthalene	< 10.1	ug/L		1/24/2020 16:46
2-Methylphenol	< 10.1	ug/L		1/24/2020 16:46
2-Nitroaniline	< 20.3	ug/L		1/24/2020 16:46
2-Nitrophenol	< 10.1	ug/L		1/24/2020 16:46
3&4-Methylphenol	< 10.1	ug/L		1/24/2020 16:46
3,3'-Dichlorobenzidine	< 10.1	ug/L		1/24/2020 16:46

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW-1		
Lab Sample ID:	200375-01	**Date Sampled:**	1/22/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

3-Nitroaniline	< 20.3	ug/L	1/24/2020	16:46
4,6-Dinitro-2-methylphenol	< 20.3	ug/L	1/24/2020	16:46
4-Bromophenyl phenyl ether	< 10.1	ug/L	1/24/2020	16:46
4-Chloro-3-methylphenol	< 10.1	ug/L	1/24/2020	16:46
4-Chloroaniline	< 10.1	ug/L	1/24/2020	16:46
4-Chlorophenyl phenyl ether	< 10.1	ug/L	1/24/2020	16:46
4-Nitroaniline	< 20.3	ug/L	1/24/2020	16:46
4-Nitrophenol	< 20.3	ug/L	1/24/2020	16:46
Acenaphthene	< 10.1	ug/L	1/24/2020	16:46
Acenaphthylene	< 10.1	ug/L	1/24/2020	16:46
Acetophenone	< 10.1	ug/L	1/24/2020	16:46
Anthracene	< 10.1	ug/L	1/24/2020	16:46
Atrazine	< 10.1	ug/L	1/24/2020	16:46
Benzaldehyde	< 10.1	ug/L	1/24/2020	16:46
Benzo (a) anthracene	< 10.1	ug/L	1/24/2020	16:46
Benzo (a) pyrene	< 10.1	ug/L	1/24/2020	16:46
Benzo (b) fluoranthene	< 10.1	ug/L	1/24/2020	16:46
Benzo (g,h,i) perylene	< 10.1	ug/L	1/24/2020	16:46
Benzo (k) fluoranthene	< 10.1	ug/L	1/24/2020	16:46
Bis (2-chloroethoxy) methane	< 10.1	ug/L	1/24/2020	16:46
Bis (2-chloroethyl) ether	< 10.1	ug/L	1/24/2020	16:46
Bis (2-ethylhexyl) phthalate	< 10.1	ug/L	1/24/2020	16:46
Butylbenzylphthalate	< 10.1	ug/L	1/24/2020	16:46
Caprolactam	< 10.1	ug/L	1/24/2020	16:46
Carbazole	< 10.1	ug/L	1/24/2020	16:46

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-1
Lab Sample ID: 200375-01 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Chrysene	< 10.1	ug/L	1/24/2020	16:46
Dibenz (a,h) anthracene	< 10.1	ug/L	1/24/2020	16:46
Dibenzofuran	< 10.1	ug/L	1/24/2020	16:46
Diethyl phthalate	< 10.1	ug/L	1/24/2020	16:46
Dimethyl phthalate	< 20.3	ug/L	1/24/2020	16:46
Di-n-butyl phthalate	< 10.1	ug/L	1/24/2020	16:46
Di-n-octylphthalate	< 10.1	ug/L	1/24/2020	16:46
Fluoranthene	< 10.1	ug/L	1/24/2020	16:46
Fluorene	< 10.1	ug/L	1/24/2020	16:46
Hexachlorobenzene	< 10.1	ug/L	1/24/2020	16:46
Hexachlorobutadiene	< 10.1	ug/L	1/24/2020	16:46
Hexachlorocyclopentadiene	< 10.1	ug/L	1/24/2020	16:46
Hexachloroethane	< 10.1	ug/L	1/24/2020	16:46
Indeno (1,2,3-cd) pyrene	< 10.1	ug/L	1/24/2020	16:46
Isophorone	< 10.1	ug/L	1/24/2020	16:46
Naphthalene	< 10.1	ug/L	1/24/2020	16:46
Nitrobenzene	< 10.1	ug/L	1/24/2020	16:46
N-Nitroso-di-n-propylamine	< 10.1	ug/L	1/24/2020	16:46
N-Nitrosodiphenylamine	< 10.1	ug/L	1/24/2020	16:46
Pentachlorophenol	< 20.3	ug/L	1/24/2020	16:46
Phenanthrene	< 10.1	ug/L	1/24/2020	16:46
Phenol	< 10.1	ug/L	1/24/2020	16:46
Pyrene	< 10.1	ug/L	1/24/2020	16:46

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-1
Lab Sample ID: 200375-01 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**81.7**	59.6 - 114		1/24/2020	16:46
2-Fluorobiphenyl	**57.1**	36.2 - 99.1		1/24/2020	16:46
2-Fluorophenol	**39.9**	14.9 - 105		1/24/2020	16:46
Nitrobenzene-d5	**69.9**	53.7 - 102		1/24/2020	16:46
Phenol-d5	**26.7**	10 - 106		1/24/2020	16:46
Terphenyl-d14	**77.4**	58.7 - 116		1/24/2020	16:46

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 1/24/2020
Data File: B44088.D

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-1
Lab Sample ID: 200375-01 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	**1.00**	ug/L	J	1/24/2020 14:17
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/24/2020 14:17
1,1,2-Trichloroethane	< 2.00	ug/L		1/24/2020 14:17
1,1-Dichloroethane	< 2.00	ug/L		1/24/2020 14:17
1,1-Dichloroethene	< 2.00	ug/L		1/24/2020 14:17
1,2,3-Trichlorobenzene	< 5.00	ug/L		1/24/2020 14:17
1,2,4-Trichlorobenzene	< 5.00	ug/L		1/24/2020 14:17
1,2,4-Trimethylbenzene	< 2.00	ug/L		1/24/2020 14:17
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		1/24/2020 14:17
1,2-Dibromoethane	< 2.00	ug/L		1/24/2020 14:17
1,2-Dichlorobenzene	< 2.00	ug/L		1/24/2020 14:17
1,2-Dichloroethane	< 2.00	ug/L		1/24/2020 14:17
1,2-Dichloropropane	< 2.00	ug/L		1/24/2020 14:17
1,3,5-Trimethylbenzene	< 2.00	ug/L		1/24/2020 14:17
1,3-Dichlorobenzene	< 2.00	ug/L		1/24/2020 14:17
1,4-Dichlorobenzene	< 2.00	ug/L		1/24/2020 14:17
1,4-Dioxane	< 20.0	ug/L		1/24/2020 14:17
2-Butanone	< 10.0	ug/L		1/24/2020 14:17
2-Hexanone	< 5.00	ug/L		1/24/2020 14:17
4-Methyl-2-pentanone	< 5.00	ug/L		1/24/2020 14:17
Acetone	**17.4**	ug/L		1/24/2020 14:17
Benzene	< 1.00	ug/L		1/24/2020 14:17
Bromochloromethane	< 5.00	ug/L		1/24/2020 14:17

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-1
Lab Sample ID: 200375-01 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Bromodichloromethane	< 2.00	ug/L	1/24/2020	14:17
Bromoform	< 5.00	ug/L	1/24/2020	14:17
Bromomethane	< 2.00	ug/L	1/24/2020	14:17
Carbon disulfide	< 2.00	ug/L	1/24/2020	14:17
Carbon Tetrachloride	< 2.00	ug/L	1/24/2020	14:17
Chlorobenzene	< 2.00	ug/L	1/24/2020	14:17
Chloroethane	< 2.00	ug/L	1/24/2020	14:17
Chloroform	< 2.00	ug/L	1/24/2020	14:17
Chloromethane	< 2.00	ug/L	1/24/2020	14:17
cis-1,2-Dichloroethene	**2.58**	ug/L	1/24/2020	14:17
cis-1,3-Dichloropropene	< 2.00	ug/L	1/24/2020	14:17
Cyclohexane	< 10.0	ug/L	1/24/2020	14:17
Dibromochloromethane	< 2.00	ug/L	1/24/2020	14:17
Dichlorodifluoromethane	< 2.00	ug/L	1/24/2020	14:17
Ethylbenzene	< 2.00	ug/L	1/24/2020	14:17
Freon 113	< 2.00	ug/L	1/24/2020	14:17
Isopropylbenzene	< 2.00	ug/L	1/24/2020	14:17
m,p-Xylene	< 2.00	ug/L	1/24/2020	14:17
Methyl acetate	< 2.00	ug/L	1/24/2020	14:17
Methyl tert-butyl Ether	< 2.00	ug/L	1/24/2020	14:17
Methylcyclohexane	< 2.00	ug/L	1/24/2020	14:17
Methylene chloride	< 5.00	ug/L	1/24/2020	14:17
Naphthalene	< 5.00	ug/L	1/24/2020	14:17
n-Butylbenzene	< 2.00	ug/L	1/24/2020	14:17
n-Propylbenzene	< 2.00	ug/L	1/24/2020	14:17

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-1
Lab Sample ID: 200375-01 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

o-Xylene	< 2.00	ug/L	1/24/2020	14:17
p-Isopropyltoluene	< 2.00	ug/L	1/24/2020	14:17
sec-Butylbenzene	< 2.00	ug/L	1/24/2020	14:17
Styrene	< 5.00	ug/L	1/24/2020	14:17
tert-Butylbenzene	< 2.00	ug/L	1/24/2020	14:17
Tetrachloroethene	< 2.00	ug/L	1/24/2020	14:17
Toluene	< 2.00	ug/L	1/24/2020	14:17
trans-1,2-Dichloroethene	< 2.00	ug/L	1/24/2020	14:17
trans-1,3-Dichloropropene	< 2.00	ug/L	1/24/2020	14:17
Trichloroethene	**13.0**	ug/L	1/24/2020	14:17
Trichlorofluoromethane	< 2.00	ug/L	1/24/2020	14:17
Vinyl chloride	< 2.00	ug/L	1/24/2020	14:17

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**115**	74.3 - 138		1/24/2020	14:17
4-Bromofluorobenzene	**78.6**	66.3 - 125		1/24/2020	14:17
Pentafluorobenzene	**102**	87.4 - 111		1/24/2020	14:17
Toluene-D8	**93.6**	85.8 - 113		1/24/2020	14:17

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68096.D

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW-1		
Lab Sample ID:	200375-01	**Date Sampled:**	1/22/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.0100	mg/L		1/27/2020

Method Reference(s): SM 4500 CN E - 2011
SM 4500 CN C - 2011

Preparation Date: 1/24/2020

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW-1		
Lab Sample ID:	200375-01	**Date Sampled:**	1/22/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	**0.149**	ug/L	J	1/27/2020 10:57

Method Reference(s): EPA 8270D SIM
EPA 3510C
Preparation Date: 1/24/2020
Data File: B44121.D

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW-3		
Lab Sample ID:	200375-02	**Date Sampled:**	1/22/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		1/30/2020 16:51
Barium	**0.175**	mg/L		1/30/2020 16:51
Beryllium	< 0.00500	mg/L		1/28/2020 18:22
Cadmium	< 0.00500	mg/L		1/29/2020 20:33
Chromium	< 0.0100	mg/L		1/28/2020 18:22
Copper	< 0.0400	mg/L		1/28/2020 18:22
Lead	**0.0427**	mg/L		1/30/2020 12:01
Manganese	**2.69**	mg/L		1/28/2020 18:22
Nickel	< 0.0400	mg/L		1/28/2020 18:22
Selenium	**0.0183**	mg/L	J	1/31/2020 14:40
Silver	< 0.0100	mg/L		1/28/2020 18:22
Zinc	< 0.0600	mg/L		1/28/2020 18:22

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 1/27/2020
Data File: 200130B

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW-3		
Lab Sample ID:	200375-02	**Date Sampled:**	1/22/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		1/28/2020 13:24

Method Reference(s): EPA 7470A
Preparation Date: 1/27/2020
Data File: Hg200128A

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-3
Lab Sample ID: 200375-02 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		1/27/2020 17:48
PCB-1221	< 1.00	ug/L		1/27/2020 17:48
PCB-1232	< 1.00	ug/L		1/27/2020 17:48
PCB-1242	< 1.00	ug/L		1/27/2020 17:48
PCB-1248	< 1.00	ug/L		1/27/2020 17:48
PCB-1254	< 1.00	ug/L		1/27/2020 17:48
PCB-1260	< 1.00	ug/L		1/27/2020 17:48
PCB-1262	< 1.00	ug/L		1/27/2020 17:48
PCB-1268	< 1.00	ug/L		1/27/2020 17:48

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**66.1**	17.5 - 93.9		1/27/2020 17:48

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 1/27/2020

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-3
Lab Sample ID: 200375-02 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 0.200	ug/L		1/27/2020 18:26
4,4-DDE	< 0.200	ug/L		1/27/2020 18:26
4,4-DDT	< 0.200	ug/L		1/27/2020 18:26
Aldrin	< 0.200	ug/L		1/27/2020 18:26
alpha-BHC	< 0.200	ug/L		1/27/2020 18:26
beta-BHC	< 0.200	ug/L		1/27/2020 18:26
cis-Chlordane	< 0.200	ug/L		1/27/2020 18:26
delta-BHC	< 0.200	ug/L		1/27/2020 18:26
Dieldrin	< 0.200	ug/L		1/27/2020 18:26
Endosulfan I	< 0.200	ug/L		1/27/2020 18:26
Endosulfan II	< 0.200	ug/L		1/27/2020 18:26
Endosulfan Sulfate	< 0.200	ug/L		1/27/2020 18:26
Endrin	< 0.200	ug/L		1/27/2020 18:26
Endrin Aldehyde	< 0.200	ug/L		1/27/2020 18:26
Endrin Ketone	< 0.200	ug/L		1/27/2020 18:26
gamma-BHC (Lindane)	< 0.200	ug/L		1/27/2020 18:26
Heptachlor	< 0.200	ug/L		1/27/2020 18:26
Heptachlor Epoxide	< 0.200	ug/L		1/27/2020 18:26
Methoxychlor	< 0.200	ug/L		1/27/2020 18:26
Toxaphene	< 2.00	ug/L		1/27/2020 18:26
trans-Chlordane	< 0.200	ug/L		1/27/2020 18:26

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-3
Lab Sample ID: 200375-02 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**9.69**	18.1 - 158	*	1/27/2020 18:26
Tetrachloro-m-xylene (1)	**83.3**	33.4 - 94.3		1/27/2020 18:26

Method Reference(s): EPA 8081B
EPA 3510C
Preparation Date: 1/27/2020

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-3
Lab Sample ID: 200375-02 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		1/27/2020 14:55
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		1/27/2020 14:55
1,2,4-Trichlorobenzene	< 10.0	ug/L		1/27/2020 14:55
1,2-Dichlorobenzene	< 10.0	ug/L		1/27/2020 14:55
1,3-Dichlorobenzene	< 10.0	ug/L		1/27/2020 14:55
1,4-Dichlorobenzene	< 10.0	ug/L		1/27/2020 14:55
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		1/27/2020 14:55
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		1/27/2020 14:55
2,4,5-Trichlorophenol	< 20.0	ug/L		1/27/2020 14:55
2,4,6-Trichlorophenol	< 10.0	ug/L		1/27/2020 14:55
2,4-Dichlorophenol	< 10.0	ug/L		1/27/2020 14:55
2,4-Dimethylphenol	< 20.0	ug/L		1/27/2020 14:55
2,4-Dinitrophenol	< 20.0	ug/L		1/27/2020 14:55
2,4-Dinitrotoluene	< 10.0	ug/L		1/27/2020 14:55
2,6-Dinitrotoluene	< 10.0	ug/L		1/27/2020 14:55
2-Chloronaphthalene	< 10.0	ug/L		1/27/2020 14:55
2-Chlorophenol	< 10.0	ug/L		1/27/2020 14:55
2-Methylnapthalene	< 10.0	ug/L		1/27/2020 14:55
2-Methylphenol	< 10.0	ug/L		1/27/2020 14:55
2-Nitroaniline	< 20.0	ug/L		1/27/2020 14:55
2-Nitrophenol	< 10.0	ug/L		1/27/2020 14:55
3&4-Methylphenol	< 10.0	ug/L		1/27/2020 14:55
3,3'-Dichlorobenzidine	< 10.0	ug/L		1/27/2020 14:55

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW-3		
Lab Sample ID:	200375-02	**Date Sampled:**	1/22/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

3-Nitroaniline	< 20.0	ug/L	1/27/2020	14:55
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	1/27/2020	14:55
4-Bromophenyl phenyl ether	< 10.0	ug/L	1/27/2020	14:55
4-Chloro-3-methylphenol	< 10.0	ug/L	1/27/2020	14:55
4-Chloroaniline	< 10.0	ug/L	1/27/2020	14:55
4-Chlorophenyl phenyl ether	< 10.0	ug/L	1/27/2020	14:55
4-Nitroaniline	< 20.0	ug/L	1/27/2020	14:55
4-Nitrophenol	< 20.0	ug/L	1/27/2020	14:55
Acenaphthene	< 10.0	ug/L	1/27/2020	14:55
Acenaphthylene	< 10.0	ug/L	1/27/2020	14:55
Acetophenone	< 10.0	ug/L	1/27/2020	14:55
Anthracene	< 10.0	ug/L	1/27/2020	14:55
Atrazine	< 10.0	ug/L	1/27/2020	14:55
Benzaldehyde	< 10.0	ug/L	1/27/2020	14:55
Benzo (a) anthracene	< 10.0	ug/L	1/27/2020	14:55
Benzo (a) pyrene	< 10.0	ug/L	1/27/2020	14:55
Benzo (b) fluoranthene	< 10.0	ug/L	1/27/2020	14:55
Benzo (g,h,i) perylene	< 10.0	ug/L	1/27/2020	14:55
Benzo (k) fluoranthene	< 10.0	ug/L	1/27/2020	14:55
Bis (2-chloroethoxy) methane	< 10.0	ug/L	1/27/2020	14:55
Bis (2-chloroethyl) ether	< 10.0	ug/L	1/27/2020	14:55
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	1/27/2020	14:55
Butylbenzylphthalate	< 10.0	ug/L	1/27/2020	14:55
Caprolactam	< 10.0	ug/L	1/27/2020	14:55
Carbazole	< 10.0	ug/L	1/27/2020	14:55

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-3
Lab Sample ID: 200375-02 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Chrysene	< 10.0	ug/L	1/27/2020	14:55
Dibenz (a,h) anthracene	< 10.0	ug/L	1/27/2020	14:55
Dibenzofuran	< 10.0	ug/L	1/27/2020	14:55
Diethyl phthalate	< 10.0	ug/L	1/27/2020	14:55
Dimethyl phthalate	< 20.0	ug/L	1/27/2020	14:55
Di-n-butyl phthalate	< 10.0	ug/L	1/27/2020	14:55
Di-n-octylphthalate	< 10.0	ug/L	1/27/2020	14:55
Fluoranthene	< 10.0	ug/L	1/27/2020	14:55
Fluorene	< 10.0	ug/L	1/27/2020	14:55
Hexachlorobenzene	< 10.0	ug/L	1/27/2020	14:55
Hexachlorobutadiene	< 10.0	ug/L	1/27/2020	14:55
Hexachlorocyclopentadiene	< 10.0	ug/L	1/27/2020	14:55
Hexachloroethane	< 10.0	ug/L	1/27/2020	14:55
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	1/27/2020	14:55
Isophorone	< 10.0	ug/L	1/27/2020	14:55
Naphthalene	< 10.0	ug/L	1/27/2020	14:55
Nitrobenzene	< 10.0	ug/L	1/27/2020	14:55
N-Nitroso-di-n-propylamine	< 10.0	ug/L	1/27/2020	14:55
N-Nitrosodiphenylamine	< 10.0	ug/L	1/27/2020	14:55
Pentachlorophenol	< 20.0	ug/L	1/27/2020	14:55
Phenanthrene	< 10.0	ug/L	1/27/2020	14:55
Phenol	< 10.0	ug/L	1/27/2020	14:55
Pyrene	< 10.0	ug/L	1/27/2020	14:55

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-3
Lab Sample ID: 200375-02 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**52.0**	59.6 - 114	*	1/27/2020 14:55
2-Fluorobiphenyl	**37.9**	36.2 - 99.1		1/27/2020 14:55
2-Fluorophenol	**25.1**	14.9 - 105		1/27/2020 14:55
Nitrobenzene-d5	**44.5**	53.7 - 102	*	1/27/2020 14:55
Phenol-d5	**17.3**	10 - 106		1/27/2020 14:55
Terphenyl-d14	**54.1**	58.7 - 116	*	1/27/2020 14:55

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 1/24/2020
Data File: B44089.D

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-3
Lab Sample ID: 200375-02 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		1/24/2020 14:39
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/24/2020 14:39
1,1,2-Trichloroethane	< 2.00	ug/L		1/24/2020 14:39
1,1-Dichloroethane	< 2.00	ug/L		1/24/2020 14:39
1,1-Dichloroethene	< 2.00	ug/L		1/24/2020 14:39
1,2,3-Trichlorobenzene	< 5.00	ug/L		1/24/2020 14:39
1,2,4-Trichlorobenzene	< 5.00	ug/L		1/24/2020 14:39
1,2,4-Trimethylbenzene	< 2.00	ug/L		1/24/2020 14:39
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		1/24/2020 14:39
1,2-Dibromoethane	< 2.00	ug/L		1/24/2020 14:39
1,2-Dichlorobenzene	< 2.00	ug/L		1/24/2020 14:39
1,2-Dichloroethane	< 2.00	ug/L		1/24/2020 14:39
1,2-Dichloropropane	< 2.00	ug/L		1/24/2020 14:39
1,3,5-Trimethylbenzene	< 2.00	ug/L		1/24/2020 14:39
1,3-Dichlorobenzene	< 2.00	ug/L		1/24/2020 14:39
1,4-Dichlorobenzene	< 2.00	ug/L		1/24/2020 14:39
1,4-Dioxane	< 20.0	ug/L		1/24/2020 14:39
2-Butanone	< 10.0	ug/L		1/24/2020 14:39
2-Hexanone	< 5.00	ug/L		1/24/2020 14:39
4-Methyl-2-pentanone	< 5.00	ug/L		1/24/2020 14:39
Acetone	**157**	ug/L		1/24/2020 14:39
Benzene	< 1.00	ug/L		1/24/2020 14:39
Bromochloromethane	< 5.00	ug/L		1/24/2020 14:39

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-3
Lab Sample ID: 200375-02 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Bromodichloromethane	< 2.00	ug/L	1/24/2020	14:39
Bromoform	< 5.00	ug/L	1/24/2020	14:39
Bromomethane	< 2.00	ug/L	1/24/2020	14:39
Carbon disulfide	< 2.00	ug/L	1/24/2020	14:39
Carbon Tetrachloride	< 2.00	ug/L	1/24/2020	14:39
Chlorobenzene	< 2.00	ug/L	1/24/2020	14:39
Chloroethane	< 2.00	ug/L	1/24/2020	14:39
Chloroform	< 2.00	ug/L	1/24/2020	14:39
Chloromethane	< 2.00	ug/L	1/24/2020	14:39
cis-1,2-Dichloroethene	< 2.00	ug/L	1/24/2020	14:39
cis-1,3-Dichloropropene	< 2.00	ug/L	1/24/2020	14:39
Cyclohexane	< 10.0	ug/L	1/24/2020	14:39
Dibromochloromethane	< 2.00	ug/L	1/24/2020	14:39
Dichlorodifluoromethane	< 2.00	ug/L	1/24/2020	14:39
Ethylbenzene	< 2.00	ug/L	1/24/2020	14:39
Freon 113	< 2.00	ug/L	1/24/2020	14:39
Isopropylbenzene	< 2.00	ug/L	1/24/2020	14:39
m,p-Xylene	< 2.00	ug/L	1/24/2020	14:39
Methyl acetate	< 2.00	ug/L	1/24/2020	14:39
Methyl tert-butyl Ether	< 2.00	ug/L	1/24/2020	14:39
Methylcyclohexane	< 2.00	ug/L	1/24/2020	14:39
Methylene chloride	< 5.00	ug/L	1/24/2020	14:39
Naphthalene	< 5.00	ug/L	1/24/2020	14:39
n-Butylbenzene	< 2.00	ug/L	1/24/2020	14:39
n-Propylbenzene	< 2.00	ug/L	1/24/2020	14:39

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-3
Lab Sample ID: 200375-02 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

o-Xylene	< 2.00	ug/L		1/24/2020	14:39
p-Isopropyltoluene	< 2.00	ug/L		1/24/2020	14:39
sec-Butylbenzene	< 2.00	ug/L		1/24/2020	14:39
Styrene	< 5.00	ug/L		1/24/2020	14:39
tert-Butylbenzene	< 2.00	ug/L		1/24/2020	14:39
Tetrachloroethene	< 2.00	ug/L		1/24/2020	14:39
Toluene	< 2.00	ug/L		1/24/2020	14:39
trans-1,2-Dichloroethene	< 2.00	ug/L		1/24/2020	14:39
trans-1,3-Dichloropropene	< 2.00	ug/L		1/24/2020	14:39
Trichloroethene	**1.27**	ug/L	J	1/24/2020	14:39
Trichlorofluoromethane	< 2.00	ug/L		1/24/2020	14:39
Vinyl chloride	< 2.00	ug/L		1/24/2020	14:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**118**	74.3 - 138		1/24/2020	14:39
4-Bromofluorobenzene	**77.7**	66.3 - 125		1/24/2020	14:39
Pentafluorobenzene	**100**	87.4 - 111		1/24/2020	14:39
Toluene-D8	**91.5**	85.8 - 113		1/24/2020	14:39

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68097.D

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW-3		
Lab Sample ID:	200375-02	**Date Sampled:**	1/22/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**0.00650**	mg/L	J	1/27/2020

Method Reference(s): SM 4500 CN E - 2011
SM 4500 CN C - 2011

Preparation Date: 1/24/2020

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW-3		
Lab Sample ID:	200375-02	**Date Sampled:**	1/22/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	**1.36**	ug/L		1/27/2020 11:08

Surrogate and internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8270D SIM
EPA 3510C

Preparation Date: 1/24/2020

Data File: B44122.D

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-2
Lab Sample ID: 200375-03 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		1/30/2020 16:55
Barium	**0.144**	mg/L		1/30/2020 16:55
Beryllium	< 0.00500	mg/L		1/28/2020 18:26
Cadmium	< 0.00500	mg/L		1/29/2020 20:37
Chromium	< 0.0100	mg/L		1/28/2020 18:26
Copper	< 0.0400	mg/L		1/28/2020 18:26
Lead	< 0.0100	mg/L		1/30/2020 12:05
Manganese	**0.694**	mg/L		1/28/2020 18:26
Nickel	< 0.0400	mg/L		1/28/2020 18:26
Selenium	**0.0154**	mg/L	J	1/31/2020 14:44
Silver	< 0.0100	mg/L		1/28/2020 18:26
Zinc	< 0.0600	mg/L		1/28/2020 18:26

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 1/27/2020
Data File: 200130B

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW-2		
Lab Sample ID:	200375-03	**Date Sampled:**	1/22/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		1/28/2020 13:26

Method Reference(s): EPA 7470A
Preparation Date: 1/27/2020
Data File: Hg200128A

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-2
Lab Sample ID: 200375-03 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.05	ug/L		1/27/2020 18:11
PCB-1221	< 1.05	ug/L		1/27/2020 18:11
PCB-1232	< 1.05	ug/L		1/27/2020 18:11
PCB-1242	< 1.05	ug/L		1/27/2020 18:11
PCB-1248	< 1.05	ug/L		1/27/2020 18:11
PCB-1254	< 1.05	ug/L		1/27/2020 18:11
PCB-1260	< 1.05	ug/L		1/27/2020 18:11
PCB-1262	< 1.05	ug/L		1/27/2020 18:11
PCB-1268	< 1.05	ug/L		1/27/2020 18:11

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**61.3**	17.5 - 93.9		1/27/2020 18:11

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 1/27/2020

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-2
Lab Sample ID: 200375-03 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 0.211	ug/L		1/27/2020 18:45
4,4-DDE	< 0.211	ug/L		1/27/2020 18:45
4,4-DDT	< 0.211	ug/L		1/27/2020 18:45
Aldrin	< 0.211	ug/L		1/27/2020 18:45
alpha-BHC	< 0.211	ug/L		1/27/2020 18:45
beta-BHC	< 0.211	ug/L		1/27/2020 18:45
cis-Chlordane	< 0.211	ug/L		1/27/2020 18:45
delta-BHC	< 0.211	ug/L		1/27/2020 18:45
Dieldrin	< 0.211	ug/L		1/27/2020 18:45
Endosulfan I	< 0.211	ug/L		1/27/2020 18:45
Endosulfan II	< 0.211	ug/L		1/27/2020 18:45
Endosulfan Sulfate	< 0.211	ug/L		1/27/2020 18:45
Endrin	< 0.211	ug/L		1/27/2020 18:45
Endrin Aldehyde	< 0.211	ug/L		1/27/2020 18:45
Endrin Ketone	< 0.211	ug/L		1/27/2020 18:45
gamma-BHC (Lindane)	< 0.211	ug/L		1/27/2020 18:45
Heptachlor	< 0.211	ug/L		1/27/2020 18:45
Heptachlor Epoxide	< 0.211	ug/L		1/27/2020 18:45
Methoxychlor	< 0.211	ug/L		1/27/2020 18:45
Toxaphene	< 2.11	ug/L		1/27/2020 18:45
trans-Chlordane	< 0.211	ug/L		1/27/2020 18:45

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-2
Lab Sample ID: 200375-03 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**18.2**	18.1 - 158		1/27/2020 18:45
Tetrachloro-m-xylene (1)	**195**	33.4 - 94.3	*	1/27/2020 18:45

Method Reference(s): EPA 8081B
EPA 3510C
Preparation Date: 1/27/2020

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW-2		
Lab Sample ID:	200375-03	**Date Sampled:**	1/22/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		1/24/2020 17:52
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		1/24/2020 17:52
1,2,4-Trichlorobenzene	< 10.0	ug/L		1/24/2020 17:52
1,2-Dichlorobenzene	< 10.0	ug/L		1/24/2020 17:52
1,3-Dichlorobenzene	< 10.0	ug/L		1/24/2020 17:52
1,4-Dichlorobenzene	< 10.0	ug/L		1/24/2020 17:52
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		1/24/2020 17:52
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		1/24/2020 17:52
2,4,5-Trichlorophenol	< 20.0	ug/L		1/24/2020 17:52
2,4,6-Trichlorophenol	< 10.0	ug/L		1/24/2020 17:52
2,4-Dichlorophenol	< 10.0	ug/L		1/24/2020 17:52
2,4-Dimethylphenol	< 20.0	ug/L		1/24/2020 17:52
2,4-Dinitrophenol	< 20.0	ug/L		1/24/2020 17:52
2,4-Dinitrotoluene	< 10.0	ug/L		1/24/2020 17:52
2,6-Dinitrotoluene	< 10.0	ug/L		1/24/2020 17:52
2-Chloronaphthalene	< 10.0	ug/L		1/24/2020 17:52
2-Chlorophenol	< 10.0	ug/L		1/24/2020 17:52
2-Methylnapthalene	< 10.0	ug/L		1/24/2020 17:52
2-Methylphenol	< 10.0	ug/L		1/24/2020 17:52
2-Nitroaniline	< 20.0	ug/L		1/24/2020 17:52
2-Nitrophenol	< 10.0	ug/L		1/24/2020 17:52
3&4-Methylphenol	< 10.0	ug/L		1/24/2020 17:52
3,3'-Dichlorobenzidine	< 10.0	ug/L		1/24/2020 17:52

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW-2		
Lab Sample ID:	200375-03	**Date Sampled:**	1/22/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

3-Nitroaniline	< 20.0	ug/L	1/24/2020	17:52
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	1/24/2020	17:52
4-Bromophenyl phenyl ether	< 10.0	ug/L	1/24/2020	17:52
4-Chloro-3-methylphenol	< 10.0	ug/L	1/24/2020	17:52
4-Chloroaniline	< 10.0	ug/L	1/24/2020	17:52
4-Chlorophenyl phenyl ether	< 10.0	ug/L	1/24/2020	17:52
4-Nitroaniline	< 20.0	ug/L	1/24/2020	17:52
4-Nitrophenol	< 20.0	ug/L	1/24/2020	17:52
Acenaphthene	< 10.0	ug/L	1/24/2020	17:52
Acenaphthylene	< 10.0	ug/L	1/24/2020	17:52
Acetophenone	< 10.0	ug/L	1/24/2020	17:52
Anthracene	< 10.0	ug/L	1/24/2020	17:52
Atrazine	< 10.0	ug/L	1/24/2020	17:52
Benzaldehyde	< 10.0	ug/L	1/24/2020	17:52
Benzo (a) anthracene	< 10.0	ug/L	1/24/2020	17:52
Benzo (a) pyrene	< 10.0	ug/L	1/24/2020	17:52
Benzo (b) fluoranthene	< 10.0	ug/L	1/24/2020	17:52
Benzo (g,h,i) perylene	< 10.0	ug/L	1/24/2020	17:52
Benzo (k) fluoranthene	< 10.0	ug/L	1/24/2020	17:52
Bis (2-chloroethoxy) methane	< 10.0	ug/L	1/24/2020	17:52
Bis (2-chloroethyl) ether	< 10.0	ug/L	1/24/2020	17:52
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	1/24/2020	17:52
Butylbenzylphthalate	< 10.0	ug/L	1/24/2020	17:52
Caprolactam	< 10.0	ug/L	1/24/2020	17:52
Carbazole	< 10.0	ug/L	1/24/2020	17:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

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Sample Identifier: MW-2
Lab Sample ID: 200375-03 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Chrysene	< 10.0	ug/L	1/24/2020	17:52
Dibenz (a,h) anthracene	< 10.0	ug/L	1/24/2020	17:52
Dibenzofuran	< 10.0	ug/L	1/24/2020	17:52
Diethyl phthalate	< 10.0	ug/L	1/24/2020	17:52
Dimethyl phthalate	< 20.0	ug/L	1/24/2020	17:52
Di-n-butyl phthalate	< 10.0	ug/L	1/24/2020	17:52
Di-n-octylphthalate	< 10.0	ug/L	1/24/2020	17:52
Fluoranthene	< 10.0	ug/L	1/24/2020	17:52
Fluorene	< 10.0	ug/L	1/24/2020	17:52
Hexachlorobenzene	< 10.0	ug/L	1/24/2020	17:52
Hexachlorobutadiene	< 10.0	ug/L	1/24/2020	17:52
Hexachlorocyclopentadiene	< 10.0	ug/L	1/24/2020	17:52
Hexachloroethane	< 10.0	ug/L	1/24/2020	17:52
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	1/24/2020	17:52
Isophorone	< 10.0	ug/L	1/24/2020	17:52
Naphthalene	< 10.0	ug/L	1/24/2020	17:52
Nitrobenzene	< 10.0	ug/L	1/24/2020	17:52
N-Nitroso-di-n-propylamine	< 10.0	ug/L	1/24/2020	17:52
N-Nitrosodiphenylamine	< 10.0	ug/L	1/24/2020	17:52
Pentachlorophenol	< 20.0	ug/L	1/24/2020	17:52
Phenanthrene	< 10.0	ug/L	1/24/2020	17:52
Phenol	< 10.0	ug/L	1/24/2020	17:52
Pyrene	< 10.0	ug/L	1/24/2020	17:52

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-2
Lab Sample ID: 200375-03 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**95.1**	59.6 - 114		1/24/2020 17:52
2-Fluorobiphenyl	**64.3**	36.2 - 99.1		1/24/2020 17:52
2-Fluorophenol	**43.1**	14.9 - 105		1/24/2020 17:52
Nitrobenzene-d5	**80.0**	53.7 - 102		1/24/2020 17:52
Phenol-d5	**28.9**	10 - 106		1/24/2020 17:52
Terphenyl-d14	**89.2**	58.7 - 116		1/24/2020 17:52

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 1/24/2020
Data File: B44090.D

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-2
Lab Sample ID: 200375-03 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	**14.7**	ug/L		1/27/2020 15:12
1,1,2,2-Tetrachloroethane	< 10.0	ug/L		1/27/2020 15:12
1,1,2-Trichloroethane	< 10.0	ug/L		1/27/2020 15:12
1,1-Dichloroethane	**57.0**	ug/L		1/27/2020 15:12
1,1-Dichloroethene	< 10.0	ug/L		1/27/2020 15:12
1,2,3-Trichlorobenzene	< 25.0	ug/L		1/27/2020 15:12
1,2,4-Trichlorobenzene	< 25.0	ug/L		1/27/2020 15:12
1,2,4-Trimethylbenzene	< 10.0	ug/L		1/27/2020 15:12
1,2-Dibromo-3-Chloropropane	< 50.0	ug/L		1/27/2020 15:12
1,2-Dibromoethane	< 10.0	ug/L		1/27/2020 15:12
1,2-Dichlorobenzene	< 10.0	ug/L		1/27/2020 15:12
1,2-Dichloroethane	< 10.0	ug/L		1/27/2020 15:12
1,2-Dichloropropane	< 10.0	ug/L		1/27/2020 15:12
1,3,5-Trimethylbenzene	< 10.0	ug/L		1/27/2020 15:12
1,3-Dichlorobenzene	< 10.0	ug/L		1/27/2020 15:12
1,4-Dichlorobenzene	< 10.0	ug/L		1/27/2020 15:12
1,4-Dioxane	< 100	ug/L		1/27/2020 15:12
2-Butanone	< 50.0	ug/L		1/27/2020 15:12
2-Hexanone	< 25.0	ug/L		1/27/2020 15:12
4-Methyl-2-pentanone	< 25.0	ug/L		1/27/2020 15:12
Acetone	**408**	ug/L		1/27/2020 15:12
Benzene	< 5.00	ug/L		1/27/2020 15:12
Bromochloromethane	< 25.0	ug/L		1/27/2020 15:12

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-2
Lab Sample ID: 200375-03 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Bromodichloromethane	< 10.0	ug/L	1/27/2020	15:12
Bromoform	< 25.0	ug/L	1/27/2020	15:12
Bromomethane	< 10.0	ug/L	1/27/2020	15:12
Carbon disulfide	< 10.0	ug/L	1/27/2020	15:12
Carbon Tetrachloride	< 10.0	ug/L	1/27/2020	15:12
Chlorobenzene	< 10.0	ug/L	1/27/2020	15:12
Chloroethane	< 10.0	ug/L	1/27/2020	15:12
Chloroform	< 10.0	ug/L	1/27/2020	15:12
Chloromethane	< 10.0	ug/L	1/27/2020	15:12
cis-1,2-Dichloroethene	**55.4**	ug/L	1/27/2020	15:12
cis-1,3-Dichloropropene	< 10.0	ug/L	1/27/2020	15:12
Cyclohexane	< 50.0	ug/L	1/27/2020	15:12
Dibromochloromethane	< 10.0	ug/L	1/27/2020	15:12
Dichlorodifluoromethane	< 10.0	ug/L	1/27/2020	15:12
Ethylbenzene	< 10.0	ug/L	1/27/2020	15:12
Freon 113	< 10.0	ug/L	1/27/2020	15:12
Isopropylbenzene	< 10.0	ug/L	1/27/2020	15:12
m,p-Xylene	< 10.0	ug/L	1/27/2020	15:12
Methyl acetate	< 10.0	ug/L	1/27/2020	15:12
Methyl tert-butyl Ether	< 10.0	ug/L	1/27/2020	15:12
Methylcyclohexane	< 10.0	ug/L	1/27/2020	15:12
Methylene chloride	< 25.0	ug/L	1/27/2020	15:12
Naphthalene	< 25.0	ug/L	1/27/2020	15:12
n-Butylbenzene	< 10.0	ug/L	1/27/2020	15:12
n-Propylbenzene	< 10.0	ug/L	1/27/2020	15:12

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW-2
Lab Sample ID: 200375-03 **Date Sampled:** 1/22/2020
Matrix: Groundwater **Date Received:** 1/23/2020

o-Xylene	< 10.0	ug/L	1/27/2020	15:12
p-Isopropyltoluene	< 10.0	ug/L	1/27/2020	15:12
sec-Butylbenzene	< 10.0	ug/L	1/27/2020	15:12
Styrene	< 25.0	ug/L	1/27/2020	15:12
tert-Butylbenzene	< 10.0	ug/L	1/27/2020	15:12
Tetrachloroethene	< 10.0	ug/L	1/27/2020	15:12
Toluene	< 10.0	ug/L	1/27/2020	15:12
trans-1,2-Dichloroethene	< 10.0	ug/L	1/27/2020	15:12
trans-1,3-Dichloropropene	< 10.0	ug/L	1/27/2020	15:12
Trichloroethene	**22.5**	ug/L	1/27/2020	15:12
Trichlorofluoromethane	< 10.0	ug/L	1/27/2020	15:12
Vinyl chloride	**35.3**	ug/L	1/27/2020	15:12

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**103**	74.3 - 138		1/27/2020	15:12
4-Bromofluorobenzene	**97.0**	66.3 - 125		1/27/2020	15:12
Pentafluorobenzene	**101**	87.4 - 111		1/27/2020	15:12
Toluene-D8	**103**	85.8 - 113		1/27/2020	15:12

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68139.D

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW-2		
Lab Sample ID:	200375-03	**Date Sampled:**	1/22/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.0100	mg/L		1/27/2020

Method Reference(s): SM 4500 CN E - 2011
SM 4500 CN C - 2011

Preparation Date: 1/24/2020

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Report Prepared Friday, February 14, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200375

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW-2		
Lab Sample ID:	200375-03	**Date Sampled:**	1/22/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	**52.1**	ug/L		1/28/2020 10:53

Method Reference(s): EPA 8270D SIM
EPA 3510C
Preparation Date: 1/28/2020
Data File: B44142.D

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Report Prepared Friday, February 14, 2020

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

ANALYTICAL REPORT

Lab Number:	L2003085
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Jane Daloia
Phone:	(585) 647-2530
Project Name:	57 TONAWANDA STREET
Project Number:	57 TONAWANDA
Report Date:	02/13/20

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003085
Report Date: 02/13/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2003085-01	MW-1	WATER	Not Specified	01/22/20 10:30	01/22/20
L2003085-02	MW-2	WATER	Not Specified	01/22/20 14:20	01/22/20
L2003085-03	MW-3	WATER	Not Specified	01/22/20 12:20	01/22/20

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003085
Project Number:	57 TONAWANDA	**Report Date:**	02/13/20

Case Narrative

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

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

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

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

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

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

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003085
Project Number:	57 TONAWANDA	**Report Date:**	02/13/20

Case Narrative (continued)

Report Revision

February 13, 2020: Sample -02 and -03 - the collection times have been swapped, per client instruction.

Report Submission

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

Perfluorinated Alkyl Acids by Isotope Dilution

L2003085-01, -02, and -03: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

WG1333454-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

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

Authorized Signature: Susan E O'Neil Susan O' Neil

Title: Technical Director/Representative Date: 02/13/20

ORGANICS

SEMIVOLATILES

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA
Lab Number: L2003085
Report Date: 02/13/20

SAMPLE RESULTS

Lab ID: L2003085-01
Client ID: MW-1
Sample Location: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/08/20 07:44
Analyst: JW

Date Collected: 01/22/20 10:30
Date Received: 01/22/20
Field Prep: Not Specified

Extraction Method: ALPHA 23528
Extraction Date: 01/24/20 09:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	4.58		ng/l	1.75	0.357	1
Perfluoropentanoic Acid (PFPeA)	3.20		ng/l	1.75	0.346	1
Perfluorobutanesulfonic Acid (PFBS)	2.49		ng/l	1.75	0.208	1
Perfluorohexanoic Acid (PFHxA)	2.50		ng/l	1.75	0.287	1
Perfluoroheptanoic Acid (PFHpA)	1.75		ng/l	1.75	0.197	1
Perfluorohexanesulfonic Acid (PFHxS)	1.12	J	ng/l	1.75	0.329	1
Perfluorooctanoic Acid (PFOA)	4.60		ng/l	1.75	0.206	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.75	1.16	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.75	0.601	1
Perfluorononanoic Acid (PFNA)	0.465	J	ng/l	1.75	0.273	1
Perfluorooctanesulfonic Acid (PFOS)	4.41		ng/l	1.75	0.440	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.75	0.266	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.75	1.06	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	1.03	J	ng/l	1.75	0.566	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.75	0.227	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.75	0.857	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.75	0.507	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.794	J	ng/l	1.75	0.703	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.75	0.325	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.75	0.286	1
Perfluorotetradecanoic Acid (PFTA)	0.238	J	ng/l	1.75	0.217	1
PFOA/PFOS, Total	9.01		ng/l	1.75	0.206	1

Project Name: 57 TONAWANDA STREET **Lab Number:** L2003085

Project Number: 57 TONAWANDA **Report Date:** 02/13/20

SAMPLE RESULTS

Lab ID: L2003085-01 Date Collected: 01/22/20 10:30

Client ID: MW-1 Date Received: 01/22/20

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	77		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	65		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	67		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	47		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	57		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	81		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	64		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	221		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	74		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	78		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	58		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**212**	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	54		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	58		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	19		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	56		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	46		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	47		33-143

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA
Lab Number: L2003085
Report Date: 02/13/20

SAMPLE RESULTS

Lab ID: L2003085-02
Client ID: MW-2
Sample Location: Not Specified

Date Collected: 01/22/20 14:20
Date Received: 01/22/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/08/20 08:00
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 01/24/20 09:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	10.7		ng/l	1.79	0.366	1
Perfluoropentanoic Acid (PFPeA)	2.17		ng/l	1.79	0.355	1
Perfluorobutanesulfonic Acid (PFBS)	2.38		ng/l	1.79	0.213	1
Perfluorohexanoic Acid (PFHxA)	2.18		ng/l	1.79	0.294	1
Perfluoroheptanoic Acid (PFHpA)	1.06	J	ng/l	1.79	0.202	1
Perfluorohexanesulfonic Acid (PFHxS)	2.25		ng/l	1.79	0.337	1
Perfluorooctanoic Acid (PFOA)	3.84		ng/l	1.79	0.211	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.79	1.19	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.79	0.616	1
Perfluorononanoic Acid (PFNA)	0.308	J	ng/l	1.79	0.280	1
Perfluorooctanesulfonic Acid (PFOS)	0.713	J	ng/l	1.79	0.452	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.79	0.272	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.79	1.09	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.79	0.581	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.79	0.233	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.79	0.878	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.79	0.520	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.842	J	ng/l	1.79	0.720	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.79	0.333	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.79	0.293	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.79	0.222	1
PFOA/PFOS, Total	4.55	J	ng/l	1.79	0.211	1

Project Name: 57 TONAWANDA STREET **Lab Number:** L2003085

Project Number: 57 TONAWANDA **Report Date:** 02/13/20

SAMPLE RESULTS

Lab ID: L2003085-02 Date Collected: 01/22/20 14:20

Client ID: MW-2 Date Received: 01/22/20

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	89		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	59		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	70		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	80		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**259**	Q	1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	68		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**190**	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	63		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	65		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	18		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	66		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	56		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	58		33-143

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA
Lab Number: L2003085
Report Date: 02/13/20

SAMPLE RESULTS

Lab ID: L2003085-03
Client ID: MW-3
Sample Location: Not Specified

Date Collected: 01/22/20 12:20
Date Received: 01/22/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/08/20 08:17
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 01/24/20 09:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	10.3		ng/l	1.79	0.366	1
Perfluoropentanoic Acid (PFPeA)	4.79		ng/l	1.79	0.355	1
Perfluorobutanesulfonic Acid (PFBS)	1.11	J	ng/l	1.79	0.213	1
Perfluorohexanoic Acid (PFHxA)	3.79		ng/l	1.79	0.294	1
Perfluoroheptanoic Acid (PFHpA)	1.43	J	ng/l	1.79	0.202	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.79	0.337	1
Perfluorooctanoic Acid (PFOA)	3.56		ng/l	1.79	0.211	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.79	1.19	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.79	0.616	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.79	0.280	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.79	0.452	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.79	0.272	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.79	1.09	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.79	0.581	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.79	0.233	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.79	0.878	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.79	0.520	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.79	0.720	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.79	0.333	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.79	0.293	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.79	0.222	1
PFOA/PFOS, Total	3.56		ng/l	1.79	0.211	1

Project Name: 57 TONAWANDA STREET **Lab Number:** L2003085

Project Number: 57 TONAWANDA **Report Date:** 02/13/20

SAMPLE RESULTS

Lab ID: L2003085-03 Date Collected: 01/22/20 12:20

Client ID: MW-3 Date Received: 01/22/20

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	78		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	72		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	57		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	72		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	92		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**276**	Q	1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	101		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	79		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**277**	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	88		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	85		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	28		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	77		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	63		33-143

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003085
Report Date: 02/13/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2003085-01A	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2003085-01B	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2003085-02A	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2003085-02B	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2003085-03A	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2003085-03B	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003085
Report Date: 02/13/20

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003085
Project Number:	57 TONAWANDA	**Report Date:**	02/13/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003085
Project Number:	57 TONAWANDA	**Report Date:**	02/13/20

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003085
Project Number:	57 TONAWANDA	**Report Date:**	02/13/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003085
Project Number:	57 TONAWANDA	**Report Date:**	02/13/20

REFERENCES

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM

CHAIN OF CUSTODY L2003085

11148

REPORT TO:		INVOICE TO:		
CLIENT:	Paradigm Environmental	CLIENT:	Same	LAB PROJECT ID
ADDRESS:	179 Lake Avenue	ADDRESS:		
CITY:	Rochester STATE: NY ZIP 14608	CITY:	STATE: ZIP:	Results by 3 PM
PHONE:	585-647-2530	PHONE:		Email:
ATTN:	reporting@paradigmenv.com	ATTN:	accpay@paradigmenv.com	

PROJECT REFERENCE

57 Tonawanda Street

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	PFAS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1-22-20	1030			MW-1	WG	2	X		
1-22-20	1220			MW-2	WG	2	X		
1-22-20	1420			MW-3	WG	2	X		

Turnaround Time		Report Supplements		
Standard 5 day	☐	None Required	☐	None Required ☐
10 day	☒	Batch QC	☐	Basic EDD ☒
Rush 3 day	☐	Category A	☐	NYSDEC EDD ☒
Rush 2 day	☐	Category B	☒	
Rush 1 day	☐			
Other	☐	Other	☐	Other EDD ☐

Client

Sampled By	Brian Zand	Date/Time 1-22-20 1620
Relinquished By	[signature]	Date/Time 1/22/20 1620
Received By	[signature]	Date/Time 1/22/20 1620
~~Received @ Lab By~~ Released by:	[signature]	Date/Time 1/23/20 0705

ANALYTICAL REPORT

Lab Number:	L2003091
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Jane Daloia
Phone:	(585) 647-2530
Project Name:	57 TONAWANDA STREET
Project Number:	57 TONAWANDA
Report Date:	02/13/20

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003091
Report Date: 02/13/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2003091-01	MW-1	WATER	Not Specified	01/22/20 10:30	01/22/20
L2003091-02	MW-2	WATER	Not Specified	01/22/20 14:20	01/22/20
L2003091-03	MW-3	WATER	Not Specified	01/22/20 12:20	01/22/20

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003091
Project Number:	57 TONAWANDA	**Report Date:**	02/13/20

Case Narrative

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

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

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

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

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

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

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003091
Project Number:	57 TONAWANDA	**Report Date:**	02/13/20

Case Narrative (continued)

Report Revision

February 13, 2020: The sample collection times for L2003091-02 and -03 have been amended.

Report Submission

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

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

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 02/13/20

ORGANICS

PESTICIDES

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003091
Report Date: 02/13/20

SAMPLE RESULTS

Lab ID: L2003091-01
Client ID: MW-1
Sample Location: Not Specified

Date Collected: 01/22/20 10:30
Date Received: 01/22/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 01/24/20 17:43
Analyst: JMC

Extraction Method: EPA 8151A
Extraction Date: 01/23/20 10:11

Methylation Date: 01/23/20 20:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	64		30-150	A
DCAA	56		30-150	B

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003091
Report Date: 02/13/20

SAMPLE RESULTS

Lab ID: L2003091-02
Client ID: MW-2
Sample Location: Not Specified

Date Collected: 01/22/20 14:20
Date Received: 01/22/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 01/24/20 18:01
Analyst: JMC

Extraction Method: EPA 8151A
Extraction Date: 01/23/20 10:11

Methylation Date: 01/23/20 20:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	38		30-150	A
DCAA	36		30-150	B

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003091
Report Date: 02/13/20

SAMPLE RESULTS

Lab ID: L2003091-03
Client ID: MW-3
Sample Location: Not Specified

Date Collected: 01/22/20 12:20
Date Received: 01/22/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 01/29/20 14:05
Analyst: JMC

Extraction Method: EPA 8151A
Extraction Date: 01/23/20 10:11

Methylation Date: 01/23/20 20:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	57		30-150	A
DCAA	53		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003091
Report Date: 02/13/20

SAMPLE RESULTS

Lab ID: L2003091-01
Client ID: MW-1
Sample Location: Not Specified

Date Collected: 01/22/20 10:30
Date Received: 01/22/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/23/20 06:30	01/23/20 07:48	1,7196A	JA

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003091
Report Date: 02/13/20

SAMPLE RESULTS

Lab ID: L2003091-02
Client ID: MW-2
Sample Location: Not Specified

Sample Depth:
Matrix: Water

Date Collected: 01/22/20 14:20
Date Received: 01/22/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/23/20 06:30	01/23/20 07:49	1,7196A	JA

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003091
Report Date: 02/13/20

SAMPLE RESULTS

Lab ID: L2003091-03
Client ID: MW-3
Sample Location: Not Specified

Sample Depth:
Matrix: Water

Date Collected: 01/22/20 12:20
Date Received: 01/22/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/23/20 06:30	01/23/20 07:50	1,7196A	JA

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003091
Report Date: 02/13/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2003091-01A	Plastic 250ml unpreserved	A	7	7	4.8	Y	Absent		HEXCR-7196(1)
L2003091-01B	Amber 1000ml unpreserved	A	7	7	4.8	Y	Absent		HERB-APA(7)
L2003091-02A	Plastic 250ml unpreserved	A	7	7	4.8	Y	Absent		HEXCR-7196(1)
L2003091-02B	Amber 1000ml unpreserved	A	7	7	4.8	Y	Absent		HERB-APA(7)
L2003091-03A	Plastic 250ml unpreserved	A	7	7	4.8	Y	Absent		HEXCR-7196(1)
L2003091-03B	Amber 1000ml unpreserved	A	7	7	4.8	Y	Absent		HERB-APA(7)

*Values in parentheses indicate holding time in days

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003091
Project Number:	57 TONAWANDA	**Report Date:**	02/13/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003091
Project Number:	57 TONAWANDA	**Report Date:**	02/13/20

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003091
Project Number:	57 TONAWANDA	**Report Date:**	02/13/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003091
Project Number:	57 TONAWANDA	**Report Date:**	02/13/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY L2003091

11148

REPORT TO:		INVOICE TO:		
CLIENT:	Paradigm Environmental	CLIENT:	Same	LAB PROJECT ID
ADDRESS:	179 Lake Avenue	ADDRESS:		
CITY:	Rochester STATE: NY ZIP 14608	CITY: STATE: ZIP:		Results by 3 PM
PHONE:	585-647-2530	PHONE:		Email:
ATTN:	reporting@paradigmenv.com	ATTN:	accpay@paradigmenv.com	

PROJECT REFERENCE

57 Tonawanda Street

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Hex. Chrome	Silvex									REMARKS	PARADIGM LAB SAMPLE NUMBER
1-22-20	1030			MW-1	WG	2	X	X										
1-22-20	1220			MW-2	WG	2	X	X										
1-22-20	1420			MW-3	WG	2	X	X										

Turnaround Time		Report Supplements			
Standard 5 day	☒	None Required	☐	None Required	☐
10 day	☐	Batch QC	☐	Basic EDD	☒
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other	☐	Other	☐	Other EDD	☐

Client

		Date/Time
Sampled By	Brian Tyler	1-22-20 1620
Relinquished By	AH	1/22/20 1620
Received By	AH	1/22/20 1620
Received @ Lab By	Relinquished by:	Date/Time
		1/23/20 01:05

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		
CLIENT:	BE3	CLIENT:		LAB PROJECT ID: 200375
ADDRESS:	1270 Niagara St	ADDRESS:		
CITY:	Buffalo STATE: NY ZIP: 14211	CITY: STATE: ZIP:		Quotation #:
PHONE:	7169390798	PHONE:		Email: pgorton@be3corp.com
ATTN:		ATTN:		

PROJECT REFERENCE

57 Tonawanda

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	VOCs	SVOCs	RCRA Metals	TAL Metals	1-4 Dioxane	Silver PFAS	CN	CR-6	Metals	REMARKS	PARADIGM LAB SAMPLE NUMBER
1/22/20	1030		✓	MW-1	GW	12	2	1	1	1	1	1	2	1	1	1	Part375 pre-mail mw 1/23/2020	01
	1220		✓	MW-3	WG	12	3	1	1	1	1	1	2	1	1	1		02
↓	1420		✓	MW-2	WG	12	2	1	1	1	1	1	2	1	1	1		03
																Sub-out directly to sub lab 1/23/2020 mw/pail	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☒	None Required	☐	None Required	☐
10 day	☐	Batch QC	☐	Basic EDD	☒
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Date Needed _____ please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

Sampled By: John Boyd	Date/Time: 1-22-2020 1600	Total Cost:
Relinquished By: Matt Sberg	Date/Time: 1-22-2020 1600	
Received By: Brian Bjork	Date/Time: 1-22-2020 1600	P.I.F.
Received @ Lab By: Molly Vail	Date/Time: 1/23/2020 1608	

4°C iced 1/23/2020 16:03. Custody Seal intact, signed, dated - GP 1/23/2020

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: BE3 **Completed by:** Mail

Lab Project ID: 200375 **Date:** 1/23/2020

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	VOA		
Comments			
Preservation	VOA met TCN		SVOA Pest PCB Diox
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X 4°C iced		met
Comments			
Compliant Sample Quantity/Type	X		
Comments	PFAS, silver, Cr⁺⁶ sent directly to sub-lab No bottle certs for met/TCN not in certified bottles		

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM

CHAIN OF CUSTODY

11148

REPORT TO:		INVOICE TO:		
CLIENT:	Paradigm Environmental	CLIENT:	Same	LAB PROJECT ID
ADDRESS:	179 Lake Avenue	ADDRESS:		
CITY:	Rochester STATE: NY ZIP: 14608	CITY:	STATE: ZIP:	Results by 3 PM
PHONE:	585-647-2530	PHONE:		Email:
ATTN:	reporting@paradigmenv.com	ATTN:	accpay@paradigmenv.com	

PROJECT REFERENCE

57 Tonawanda Street

Matrix Codes:

AQ - Aqueous Liquid; **NQ** - Non-Aqueous Liquid; **WA** - Water; **WG** - Groundwater; **DW** - Drinking Water; **WW** - Wastewater; **SO** - Soil; **SL** - Sludge; **SD** - Solid; **PT** - Paint; **WP** - Wipe; **CK** - Caulk; **OL** - Oil; **AR** - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	PFAS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1-22-20	1030			MW-1	WG	2	X		
1-22-20	~~1200~~ 1420			MW-2	WG	2	X		
1-22-20	~~1420~~ 1220			MW-3	WG	2	X		
	cc paradigm EFI SIT								
	RE2-12-2020								

Turnaround Time		Report Supplements		
Standard 5 day	☐	None Required	☐	None Required ☐
10 day	☒	Batch QC	☐	Basic EDD ☒
Rush 3 day	☐	Category A	☐	NYSDEC EDD ☒
Rush 2 day	☐	Category B	☒	
Rush 1 day	☐			
Other	☐	Other	☐	Other EDD ☐

Client

Sampled By	Date/Time
Brian Zand	1-22-20 1620
Relinquished By	**Date/Time**
[illegible]	1/22/20 1620
Received By	**Date/Time**
Received @ Lab By	**Date/Time**

Serial_No:01292015:51

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

L2003091

11148

REPORT TO:		INVOICE TO:		
CLIENT:	Paradigm Environmental	CLIENT:	Same	LAB PROJECT ID
ADDRESS:	179 Lake Avenue	ADDRESS:		
CITY:	Rochester STATE: NY ZIP 14608	CITY:	STATE: ZIP:	Results by 3 PM
PHONE:	585-647-2530	PHONE:		Email:
ATTN:	reporting@paradigmenv.com	ATTN:	accpay@paradigmenv.com	

PROJECT REFERENCE

57 Tonawanda Street

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Hex. Chrome	Silvex									REMARKS	PARADIGM LAB SAMPLE NUMBER
1-22-20	10:30			MW-1	WG	2	X	X										
1-22-20	~~1220~~ 1420			MW-2	WG	2	X	X										
1-22-20	~~1420~~ 1220			MW-3	WG	2	X	X										
	cc pm email GTF/																	
	RL 2-12-2020																	

Turnaround Time		Report Supplements			
Standard 5 day	☒	None Required	☐	None Required	☐
10 day	☐	Batch QC	☐	Basic EDD	☒
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other	☐	Other	☐	Other EDD	☐

Client

Sampled By	Brian Bland	Date/Time 1-22-20 1620
Relinquished By	[signature]	Date/Time 1/22/20 1620
Received By	[signature]	Date/Time 1/22/20 1620
Received @ Lab By	[signature]	Date/Time 1/23/20 01:05

Relinquished by:

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW4
Lab Sample ID: 200379-01 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**0.0243**	mg/L		1/30/2020 16:59
Barium	< 0.100	mg/L		1/30/2020 16:59
Beryllium	< 0.00500	mg/L		1/28/2020 18:40
Cadmium	< 0.00500	mg/L		1/29/2020 20:51
Chromium	< 0.0100	mg/L		1/28/2020 18:40
Copper	< 0.0400	mg/L		1/28/2020 18:40
Lead	< 0.0100	mg/L	M	1/30/2020 12:19
Manganese	**0.321**	mg/L		1/28/2020 18:40
Nickel	< 0.0400	mg/L		1/28/2020 18:40
Selenium	**0.0163**	mg/L	J	2/3/2020 09:18
Silver	< 0.0100	mg/L		1/28/2020 18:40
Zinc	< 0.0600	mg/L		1/28/2020 18:40

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 1/27/2020
Data File: 200130B

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Report Prepared Thursday, February 13, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW4		
Lab Sample ID:	200379-01	**Date Sampled:**	1/23/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		1/28/2020 13:28

Method Reference(s): EPA 7470A
Preparation Date: 1/27/2020
Data File: Hg200128A

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW4		
Lab Sample ID:	200379-01	**Date Sampled:**	1/23/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.01	ug/L		1/27/2020 18:34
PCB-1221	< 1.01	ug/L		1/27/2020 18:34
PCB-1232	< 1.01	ug/L		1/27/2020 18:34
PCB-1242	< 1.01	ug/L		1/27/2020 18:34
PCB-1248	< 1.01	ug/L		1/27/2020 18:34
PCB-1254	< 1.01	ug/L		1/27/2020 18:34
PCB-1260	< 1.01	ug/L		1/27/2020 18:34
PCB-1262	< 1.01	ug/L		1/27/2020 18:34
PCB-1268	< 1.01	ug/L		1/27/2020 18:34

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**64.6**	17.5 - 93.9		1/27/2020 18:34

Method Reference(s): EPA 8082A
EPA 3510C

Preparation Date: 1/27/2020

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW4
Lab Sample ID: 200379-01 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 0.202	ug/L		1/27/2020 16:53
4,4-DDE	< 0.202	ug/L		1/27/2020 16:53
4,4-DDT	< 0.202	ug/L		1/27/2020 16:53
Aldrin	< 0.202	ug/L		1/27/2020 16:53
alpha-BHC	< 0.202	ug/L		1/27/2020 16:53
beta-BHC	< 0.202	ug/L		1/27/2020 16:53
cis-Chlordane	< 0.202	ug/L		1/27/2020 16:53
delta-BHC	< 0.202	ug/L		1/27/2020 16:53
Dieldrin	< 0.202	ug/L		1/27/2020 16:53
Endosulfan I	< 0.202	ug/L		1/27/2020 16:53
Endosulfan II	< 0.202	ug/L		1/27/2020 16:53
Endosulfan Sulfate	< 0.202	ug/L		1/27/2020 16:53
Endrin	< 0.202	ug/L		1/27/2020 16:53
Endrin Aldehyde	< 0.202	ug/L		1/27/2020 16:53
Endrin Ketone	< 0.202	ug/L		1/27/2020 16:53
gamma-BHC (Lindane)	< 0.202	ug/L		1/27/2020 16:53
Heptachlor	< 0.202	ug/L		1/27/2020 16:53
Heptachlor Epoxide	< 0.202	ug/L		1/27/2020 16:53
Methoxychlor	< 0.202	ug/L		1/27/2020 16:53
Toxaphene	< 2.02	ug/L		1/27/2020 16:53
trans-Chlordane	< 0.202	ug/L		1/27/2020 16:53

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW4
Lab Sample ID: 200379-01 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**21.7**	18.1 - 158		1/27/2020 16:53
Tetrachloro-m-xylene (1)	**79.4**	33.4 - 94.3		1/27/2020 16:53

Method Reference(s): EPA 8081B
EPA 3510C
Preparation Date: 1/27/2020

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PARADIGM
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Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW4
Lab Sample ID: 200379-01 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		1/24/2020 18:25
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		1/24/2020 18:25
1,2,4-Trichlorobenzene	< 10.0	ug/L		1/24/2020 18:25
1,2-Dichlorobenzene	< 10.0	ug/L		1/24/2020 18:25
1,3-Dichlorobenzene	< 10.0	ug/L		1/24/2020 18:25
1,4-Dichlorobenzene	< 10.0	ug/L		1/24/2020 18:25
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		1/24/2020 18:25
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		1/24/2020 18:25
2,4,5-Trichlorophenol	< 20.0	ug/L		1/24/2020 18:25
2,4,6-Trichlorophenol	< 10.0	ug/L		1/24/2020 18:25
2,4-Dichlorophenol	< 10.0	ug/L		1/24/2020 18:25
2,4-Dimethylphenol	< 20.0	ug/L		1/24/2020 18:25
2,4-Dinitrophenol	< 20.0	ug/L		1/24/2020 18:25
2,4-Dinitrotoluene	< 10.0	ug/L		1/24/2020 18:25
2,6-Dinitrotoluene	< 10.0	ug/L		1/24/2020 18:25
2-Chloronaphthalene	< 10.0	ug/L		1/24/2020 18:25
2-Chlorophenol	< 10.0	ug/L		1/24/2020 18:25
2-Methylnapthalene	< 10.0	ug/L		1/24/2020 18:25
2-Methylphenol	< 10.0	ug/L		1/24/2020 18:25
2-Nitroaniline	< 20.0	ug/L		1/24/2020 18:25
2-Nitrophenol	< 10.0	ug/L		1/24/2020 18:25
3&4-Methylphenol	< 10.0	ug/L		1/24/2020 18:25
3,3'-Dichlorobenzidine	< 10.0	ug/L		1/24/2020 18:25

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Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW4		
Lab Sample ID:	200379-01	**Date Sampled:**	1/23/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

3-Nitroaniline	< 20.0	ug/L	1/24/2020	18:25
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	1/24/2020	18:25
4-Bromophenyl phenyl ether	< 10.0	ug/L	1/24/2020	18:25
4-Chloro-3-methylphenol	< 10.0	ug/L	1/24/2020	18:25
4-Chloroaniline	< 10.0	ug/L	1/24/2020	18:25
4-Chlorophenyl phenyl ether	< 10.0	ug/L	1/24/2020	18:25
4-Nitroaniline	< 20.0	ug/L	1/24/2020	18:25
4-Nitrophenol	< 20.0	ug/L	1/24/2020	18:25
Acenaphthene	< 10.0	ug/L	1/24/2020	18:25
Acenaphthylene	< 10.0	ug/L	1/24/2020	18:25
Acetophenone	< 10.0	ug/L	1/24/2020	18:25
Anthracene	< 10.0	ug/L	1/24/2020	18:25
Atrazine	< 10.0	ug/L	1/24/2020	18:25
Benzaldehyde	< 10.0	ug/L	1/24/2020	18:25
Benzo (a) anthracene	< 10.0	ug/L	1/24/2020	18:25
Benzo (a) pyrene	< 10.0	ug/L	1/24/2020	18:25
Benzo (b) fluoranthene	< 10.0	ug/L	1/24/2020	18:25
Benzo (g,h,i) perylene	< 10.0	ug/L	1/24/2020	18:25
Benzo (k) fluoranthene	< 10.0	ug/L	1/24/2020	18:25
Bis (2-chloroethoxy) methane	< 10.0	ug/L	1/24/2020	18:25
Bis (2-chloroethyl) ether	< 10.0	ug/L	1/24/2020	18:25
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	1/24/2020	18:25
Butylbenzylphthalate	< 10.0	ug/L	1/24/2020	18:25
Caprolactam	< 10.0	ug/L	1/24/2020	18:25
Carbazole	< 10.0	ug/L	1/24/2020	18:25

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Sample Identifier: MW4
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Matrix: Groundwater **Date Received:** 1/23/2020

Chrysene	< 10.0	ug/L	1/24/2020	18:25
Dibenz (a,h) anthracene	< 10.0	ug/L	1/24/2020	18:25
Dibenzofuran	< 10.0	ug/L	1/24/2020	18:25
Diethyl phthalate	< 10.0	ug/L	1/24/2020	18:25
Dimethyl phthalate	< 20.0	ug/L	1/24/2020	18:25
Di-n-butyl phthalate	< 10.0	ug/L	1/24/2020	18:25
Di-n-octylphthalate	< 10.0	ug/L	1/24/2020	18:25
Fluoranthene	< 10.0	ug/L	1/24/2020	18:25
Fluorene	< 10.0	ug/L	1/24/2020	18:25
Hexachlorobenzene	< 10.0	ug/L	1/24/2020	18:25
Hexachlorobutadiene	< 10.0	ug/L	1/24/2020	18:25
Hexachlorocyclopentadiene	< 10.0	ug/L	1/24/2020	18:25
Hexachloroethane	< 10.0	ug/L	1/24/2020	18:25
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	1/24/2020	18:25
Isophorone	< 10.0	ug/L	1/24/2020	18:25
Naphthalene	< 10.0	ug/L	1/24/2020	18:25
Nitrobenzene	< 10.0	ug/L	1/24/2020	18:25
N-Nitroso-di-n-propylamine	< 10.0	ug/L	1/24/2020	18:25
N-Nitrosodiphenylamine	< 10.0	ug/L	1/24/2020	18:25
Pentachlorophenol	< 20.0	ug/L	1/24/2020	18:25
Phenanthrene	< 10.0	ug/L	1/24/2020	18:25
Phenol	< 10.0	ug/L	1/24/2020	18:25
Pyrene	< 10.0	ug/L	1/24/2020	18:25

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Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW4
Lab Sample ID: 200379-01 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**81.9**	59.6 - 114		1/24/2020 18:25
2-Fluorobiphenyl	**58.8**	36.2 - 99.1		1/24/2020 18:25
2-Fluorophenol	**40.9**	14.9 - 105		1/24/2020 18:25
Nitrobenzene-d5	**74.6**	53.7 - 102		1/24/2020 18:25
Phenol-d5	**31.3**	10 - 106		1/24/2020 18:25
Terphenyl-d14	**78.9**	58.7 - 116		1/24/2020 18:25

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 1/24/2020
Data File: B44091.D

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Project Reference: 57 Tonawanda

Sample Identifier: MW4
Lab Sample ID: 200379-01 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 100	ug/L		1/24/2020 18:24
1,1,2,2-Tetrachloroethane	< 100	ug/L		1/24/2020 18:24
1,1,2-Trichloroethane	< 100	ug/L		1/24/2020 18:24
1,1-Dichloroethane	< 100	ug/L		1/24/2020 18:24
1,1-Dichloroethene	< 100	ug/L		1/24/2020 18:24
1,2,3-Trichlorobenzene	< 250	ug/L		1/24/2020 18:24
1,2,4-Trichlorobenzene	< 250	ug/L		1/24/2020 18:24
1,2,4-Trimethylbenzene	< 100	ug/L		1/24/2020 18:24
1,2-Dibromo-3-Chloropropane	< 500	ug/L		1/24/2020 18:24
1,2-Dibromoethane	< 100	ug/L		1/24/2020 18:24
1,2-Dichlorobenzene	< 100	ug/L		1/24/2020 18:24
1,2-Dichloroethane	< 100	ug/L		1/24/2020 18:24
1,2-Dichloropropane	< 100	ug/L		1/24/2020 18:24
1,3,5-Trimethylbenzene	< 100	ug/L		1/24/2020 18:24
1,3-Dichlorobenzene	< 100	ug/L		1/24/2020 18:24
1,4-Dichlorobenzene	< 100	ug/L		1/24/2020 18:24
1,4-Dioxane	< 1000	ug/L		1/24/2020 18:24
2-Butanone	< 500	ug/L		1/24/2020 18:24
2-Hexanone	< 250	ug/L		1/24/2020 18:24
4-Methyl-2-pentanone	< 250	ug/L		1/24/2020 18:24
Acetone	**409**	ug/L	J	1/24/2020 18:24
Benzene	< 50.0	ug/L		1/24/2020 18:24
Bromochloromethane	< 250	ug/L		1/24/2020 18:24

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Sample Identifier: MW4
Lab Sample ID: 200379-01 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Bromodichloromethane	< 100	ug/L	1/24/2020	18:24
Bromoform	< 250	ug/L	1/24/2020	18:24
Bromomethane	< 100	ug/L	1/24/2020	18:24
Carbon disulfide	< 100	ug/L	1/24/2020	18:24
Carbon Tetrachloride	< 100	ug/L	1/24/2020	18:24
Chlorobenzene	< 100	ug/L	1/24/2020	18:24
Chloroethane	< 100	ug/L	1/24/2020	18:24
Chloroform	< 100	ug/L	1/24/2020	18:24
Chloromethane	< 100	ug/L	1/24/2020	18:24
cis-1,2-Dichloroethene	< 100	ug/L	1/24/2020	18:24
cis-1,3-Dichloropropene	< 100	ug/L	1/24/2020	18:24
Cyclohexane	< 500	ug/L	1/24/2020	18:24
Dibromochloromethane	< 100	ug/L	1/24/2020	18:24
Dichlorodifluoromethane	< 100	ug/L	1/24/2020	18:24
Ethylbenzene	< 100	ug/L	1/24/2020	18:24
Freon 113	< 100	ug/L	1/24/2020	18:24
Isopropylbenzene	< 100	ug/L	1/24/2020	18:24
m,p-Xylene	< 100	ug/L	1/24/2020	18:24
Methyl acetate	< 100	ug/L	1/24/2020	18:24
Methyl tert-butyl Ether	< 100	ug/L	1/24/2020	18:24
Methylcyclohexane	< 100	ug/L	1/24/2020	18:24
Methylene chloride	< 250	ug/L	1/24/2020	18:24
Naphthalene	< 250	ug/L	1/24/2020	18:24
n-Butylbenzene	< 100	ug/L	1/24/2020	18:24
n-Propylbenzene	< 100	ug/L	1/24/2020	18:24

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW4
Lab Sample ID: 200379-01 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

o-Xylene	< 100	ug/L		1/24/2020	18:24
p-Isopropyltoluene	< 100	ug/L		1/24/2020	18:24
sec-Butylbenzene	< 100	ug/L		1/24/2020	18:24
Styrene	< 250	ug/L		1/24/2020	18:24
tert-Butylbenzene	< 100	ug/L		1/24/2020	18:24
Tetrachloroethene	< 100	ug/L		1/24/2020	18:24
Toluene	< 100	ug/L		1/24/2020	18:24
trans-1,2-Dichloroethene	< 100	ug/L		1/24/2020	18:24
trans-1,3-Dichloropropene	< 100	ug/L		1/24/2020	18:24
Trichloroethene	**7370**	ug/L	M	1/24/2020	18:24
Trichlorofluoromethane	< 100	ug/L		1/24/2020	18:24
Vinyl chloride	< 100	ug/L		1/24/2020	18:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**119**	74.3 - 138		1/24/2020	18:24
4-Bromofluorobenzene	**74.9**	66.3 - 125		1/24/2020	18:24
Pentafluorobenzene	**102**	87.4 - 111		1/24/2020	18:24
Toluene-D8	**93.8**	85.8 - 113		1/24/2020	18:24

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68107.D

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Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW4		
Lab Sample ID:	200379-01	**Date Sampled:**	1/23/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.0100	mg/L		1/30/2020

Method Reference(s): SM 4500 CN E - 2011
SM 4500 CN C - 2011

Preparation Date: 1/29/2020

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Client: **BE3**

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Sample Identifier:	MW4		
Lab Sample ID:	200379-01	**Date Sampled:**	1/23/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	**0.473**	ug/L		1/27/2020 11:29

Method Reference(s): EPA 8270D SIM
EPA 3510C
Preparation Date: 1/24/2020
Data File: B44124.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW5
Lab Sample ID: 200379-02 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**0.0126**	mg/L		1/30/2020 17:08
Barium	< 0.100	mg/L		1/30/2020 17:08
Beryllium	< 0.00500	mg/L		1/28/2020 19:02
Cadmium	< 0.00500	mg/L		1/29/2020 21:13
Chromium	< 0.0100	mg/L		1/28/2020 19:02
Copper	< 0.0400	mg/L		1/28/2020 19:02
Lead	< 0.0100	mg/L		1/30/2020 12:33
Manganese	**0.365**	mg/L		1/28/2020 19:02
Nickel	< 0.0400	mg/L		1/28/2020 19:02
Selenium	< 0.0200	mg/L		2/3/2020 09:26
Silver	< 0.0100	mg/L		1/28/2020 19:02
Zinc	< 0.0600	mg/L		1/28/2020 19:02

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 1/27/2020
Data File: 200130B

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Report Prepared Thursday, February 13, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW5		
Lab Sample ID:	200379-02	**Date Sampled:**	1/23/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.000144**	mg/L	J	1/28/2020 13:34

Method Reference(s): EPA 7470A
Preparation Date: 1/27/2020
Data File: Hg200128A

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Report Prepared Thursday, February 13, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW5
Lab Sample ID: 200379-02 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.05	ug/L		1/27/2020 19:44
PCB-1221	< 1.05	ug/L		1/27/2020 19:44
PCB-1232	< 1.05	ug/L		1/27/2020 19:44
PCB-1242	< 1.05	ug/L		1/27/2020 19:44
PCB-1248	< 1.05	ug/L		1/27/2020 19:44
PCB-1254	< 1.05	ug/L		1/27/2020 19:44
PCB-1260	< 1.05	ug/L		1/27/2020 19:44
PCB-1262	< 1.05	ug/L		1/27/2020 19:44
PCB-1268	< 1.05	ug/L		1/27/2020 19:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**72.4**	17.5 - 93.9		1/27/2020 19:44

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 1/27/2020

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Report Prepared Thursday, February 13, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW5
Lab Sample ID: 200379-02 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 0.210	ug/L		1/27/2020 17:49
4,4-DDE	< 0.210	ug/L		1/27/2020 17:49
4,4-DDT	< 0.210	ug/L		1/27/2020 17:49
Aldrin	< 0.210	ug/L		1/27/2020 17:49
alpha-BHC	< 0.210	ug/L		1/27/2020 17:49
beta-BHC	< 0.210	ug/L		1/27/2020 17:49
cis-Chlordane	< 0.210	ug/L		1/27/2020 17:49
delta-BHC	< 0.210	ug/L		1/27/2020 17:49
Dieldrin	< 0.210	ug/L		1/27/2020 17:49
Endosulfan I	< 0.210	ug/L		1/27/2020 17:49
Endosulfan II	< 0.210	ug/L		1/27/2020 17:49
Endosulfan Sulfate	< 0.210	ug/L		1/27/2020 17:49
Endrin	< 0.210	ug/L		1/27/2020 17:49
Endrin Aldehyde	< 0.210	ug/L		1/27/2020 17:49
Endrin Ketone	< 0.210	ug/L		1/27/2020 17:49
gamma-BHC (Lindane)	< 0.210	ug/L		1/27/2020 17:49
Heptachlor	< 0.210	ug/L		1/27/2020 17:49
Heptachlor Epoxide	< 0.210	ug/L		1/27/2020 17:49
Methoxychlor	< 0.210	ug/L		1/27/2020 17:49
Toxaphene	< 2.10	ug/L		1/27/2020 17:49
trans-Chlordane	< 0.210	ug/L		1/27/2020 17:49

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW5
Lab Sample ID: 200379-02 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**17.3**	18.1 - 158	*	1/27/2020 17:49
Tetrachloro-m-xylene (1)	**66.3**	33.4 - 94.3		1/27/2020 17:49

Method Reference(s): EPA 8081B
EPA 3510C
Preparation Date: 1/27/2020

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW5
Lab Sample ID: 200379-02 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.2	ug/L		1/24/2020 20:04
1,2,4,5-Tetrachlorobenzene	< 10.2	ug/L		1/24/2020 20:04
1,2,4-Trichlorobenzene	< 10.2	ug/L		1/24/2020 20:04
1,2-Dichlorobenzene	< 10.2	ug/L		1/24/2020 20:04
1,3-Dichlorobenzene	< 10.2	ug/L		1/24/2020 20:04
1,4-Dichlorobenzene	< 10.2	ug/L		1/24/2020 20:04
2,2-Oxybis (1-chloropropane)	< 10.2	ug/L		1/24/2020 20:04
2,3,4,6-Tetrachlorophenol	< 10.2	ug/L		1/24/2020 20:04
2,4,5-Trichlorophenol	< 20.3	ug/L		1/24/2020 20:04
2,4,6-Trichlorophenol	< 10.2	ug/L		1/24/2020 20:04
2,4-Dichlorophenol	< 10.2	ug/L		1/24/2020 20:04
2,4-Dimethylphenol	< 20.3	ug/L		1/24/2020 20:04
2,4-Dinitrophenol	< 20.3	ug/L		1/24/2020 20:04
2,4-Dinitrotoluene	< 10.2	ug/L		1/24/2020 20:04
2,6-Dinitrotoluene	< 10.2	ug/L		1/24/2020 20:04
2-Chloronaphthalene	< 10.2	ug/L		1/24/2020 20:04
2-Chlorophenol	< 10.2	ug/L		1/24/2020 20:04
2-Methylnapthalene	< 10.2	ug/L		1/24/2020 20:04
2-Methylphenol	< 10.2	ug/L		1/24/2020 20:04
2-Nitroaniline	< 20.3	ug/L		1/24/2020 20:04
2-Nitrophenol	< 10.2	ug/L		1/24/2020 20:04
3&4-Methylphenol	< 10.2	ug/L		1/24/2020 20:04
3,3'-Dichlorobenzidine	< 10.2	ug/L		1/24/2020 20:04

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW5
Lab Sample ID: 200379-02 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

3-Nitroaniline	< 20.3	ug/L	1/24/2020	20:04
4,6-Dinitro-2-methylphenol	< 20.3	ug/L	1/24/2020	20:04
4-Bromophenyl phenyl ether	< 10.2	ug/L	1/24/2020	20:04
4-Chloro-3-methylphenol	< 10.2	ug/L	1/24/2020	20:04
4-Chloroaniline	< 10.2	ug/L	1/24/2020	20:04
4-Chlorophenyl phenyl ether	< 10.2	ug/L	1/24/2020	20:04
4-Nitroaniline	< 20.3	ug/L	1/24/2020	20:04
4-Nitrophenol	< 20.3	ug/L	1/24/2020	20:04
Acenaphthene	< 10.2	ug/L	1/24/2020	20:04
Acenaphthylene	< 10.2	ug/L	1/24/2020	20:04
Acetophenone	< 10.2	ug/L	1/24/2020	20:04
Anthracene	< 10.2	ug/L	1/24/2020	20:04
Atrazine	< 10.2	ug/L	1/24/2020	20:04
Benzaldehyde	< 10.2	ug/L	1/24/2020	20:04
Benzo (a) anthracene	< 10.2	ug/L	1/24/2020	20:04
Benzo (a) pyrene	< 10.2	ug/L	1/24/2020	20:04
Benzo (b) fluoranthene	< 10.2	ug/L	1/24/2020	20:04
Benzo (g,h,i) perylene	< 10.2	ug/L	1/24/2020	20:04
Benzo (k) fluoranthene	< 10.2	ug/L	1/24/2020	20:04
Bis (2-chloroethoxy) methane	< 10.2	ug/L	1/24/2020	20:04
Bis (2-chloroethyl) ether	< 10.2	ug/L	1/24/2020	20:04
Bis (2-ethylhexyl) phthalate	< 10.2	ug/L	1/24/2020	20:04
Butylbenzylphthalate	< 10.2	ug/L	1/24/2020	20:04
Caprolactam	< 10.2	ug/L	1/24/2020	20:04
Carbazole	< 10.2	ug/L	1/24/2020	20:04

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW5
Lab Sample ID: 200379-02 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Chrysene	< 10.2	ug/L	1/24/2020	20:04
Dibenz (a,h) anthracene	< 10.2	ug/L	1/24/2020	20:04
Dibenzofuran	< 10.2	ug/L	1/24/2020	20:04
Diethyl phthalate	< 10.2	ug/L	1/24/2020	20:04
Dimethyl phthalate	< 20.3	ug/L	1/24/2020	20:04
Di-n-butyl phthalate	< 10.2	ug/L	1/24/2020	20:04
Di-n-octylphthalate	< 10.2	ug/L	1/24/2020	20:04
Fluoranthene	< 10.2	ug/L	1/24/2020	20:04
Fluorene	< 10.2	ug/L	1/24/2020	20:04
Hexachlorobenzene	< 10.2	ug/L	1/24/2020	20:04
Hexachlorobutadiene	< 10.2	ug/L	1/24/2020	20:04
Hexachlorocyclopentadiene	< 10.2	ug/L	1/24/2020	20:04
Hexachloroethane	< 10.2	ug/L	1/24/2020	20:04
Indeno (1,2,3-cd) pyrene	< 10.2	ug/L	1/24/2020	20:04
Isophorone	< 10.2	ug/L	1/24/2020	20:04
Naphthalene	< 10.2	ug/L	1/24/2020	20:04
Nitrobenzene	< 10.2	ug/L	1/24/2020	20:04
N-Nitroso-di-n-propylamine	< 10.2	ug/L	1/24/2020	20:04
N-Nitrosodiphenylamine	< 10.2	ug/L	1/24/2020	20:04
Pentachlorophenol	< 20.3	ug/L	1/24/2020	20:04
Phenanthrene	< 10.2	ug/L	1/24/2020	20:04
Phenol	< 10.2	ug/L	1/24/2020	20:04
Pyrene	< 10.2	ug/L	1/24/2020	20:04

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW5
Lab Sample ID: 200379-02 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**92.6**	59.6 - 114		1/24/2020 20:04
2-Fluorobiphenyl	**68.6**	36.2 - 99.1		1/24/2020 20:04
2-Fluorophenol	**40.8**	14.9 - 105		1/24/2020 20:04
Nitrobenzene-d5	**77.2**	53.7 - 102		1/24/2020 20:04
Phenol-d5	**28.7**	10 - 106		1/24/2020 20:04
Terphenyl-d14	**92.4**	58.7 - 116		1/24/2020 20:04

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 1/24/2020
Data File: B44094.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW5
Lab Sample ID: 200379-02 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		1/24/2020 18:01
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/24/2020 18:01
1,1,2-Trichloroethane	< 2.00	ug/L		1/24/2020 18:01
1,1-Dichloroethane	< 2.00	ug/L		1/24/2020 18:01
1,1-Dichloroethene	< 2.00	ug/L		1/24/2020 18:01
1,2,3-Trichlorobenzene	< 5.00	ug/L		1/24/2020 18:01
1,2,4-Trichlorobenzene	< 5.00	ug/L		1/24/2020 18:01
1,2,4-Trimethylbenzene	< 2.00	ug/L		1/24/2020 18:01
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		1/24/2020 18:01
1,2-Dibromoethane	< 2.00	ug/L		1/24/2020 18:01
1,2-Dichlorobenzene	< 2.00	ug/L		1/24/2020 18:01
1,2-Dichloroethane	< 2.00	ug/L		1/24/2020 18:01
1,2-Dichloropropane	< 2.00	ug/L		1/24/2020 18:01
1,3,5-Trimethylbenzene	< 2.00	ug/L		1/24/2020 18:01
1,3-Dichlorobenzene	< 2.00	ug/L		1/24/2020 18:01
1,4-Dichlorobenzene	< 2.00	ug/L		1/24/2020 18:01
1,4-Dioxane	< 20.0	ug/L		1/24/2020 18:01
2-Butanone	< 10.0	ug/L		1/24/2020 18:01
2-Hexanone	< 5.00	ug/L		1/24/2020 18:01
4-Methyl-2-pentanone	< 5.00	ug/L		1/24/2020 18:01
Acetone	**9.73**	ug/L	J	1/24/2020 18:01
Benzene	< 1.00	ug/L		1/24/2020 18:01
Bromochloromethane	< 5.00	ug/L		1/24/2020 18:01

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW5
Lab Sample ID: 200379-02 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

Bromodichloromethane	< 2.00	ug/L	1/24/2020	18:01
Bromoform	< 5.00	ug/L	1/24/2020	18:01
Bromomethane	< 2.00	ug/L	1/24/2020	18:01
Carbon disulfide	< 2.00	ug/L	1/24/2020	18:01
Carbon Tetrachloride	< 2.00	ug/L	1/24/2020	18:01
Chlorobenzene	< 2.00	ug/L	1/24/2020	18:01
Chloroethane	< 2.00	ug/L	1/24/2020	18:01
Chloroform	< 2.00	ug/L	1/24/2020	18:01
Chloromethane	< 2.00	ug/L	1/24/2020	18:01
cis-1,2-Dichloroethene	< 2.00	ug/L	1/24/2020	18:01
cis-1,3-Dichloropropene	< 2.00	ug/L	1/24/2020	18:01
Cyclohexane	< 10.0	ug/L	1/24/2020	18:01
Dibromochloromethane	< 2.00	ug/L	1/24/2020	18:01
Dichlorodifluoromethane	< 2.00	ug/L	1/24/2020	18:01
Ethylbenzene	< 2.00	ug/L	1/24/2020	18:01
Freon 113	< 2.00	ug/L	1/24/2020	18:01
Isopropylbenzene	< 2.00	ug/L	1/24/2020	18:01
m,p-Xylene	< 2.00	ug/L	1/24/2020	18:01
Methyl acetate	< 2.00	ug/L	1/24/2020	18:01
Methyl tert-butyl Ether	< 2.00	ug/L	1/24/2020	18:01
Methylcyclohexane	< 2.00	ug/L	1/24/2020	18:01
Methylene chloride	< 5.00	ug/L	1/24/2020	18:01
Naphthalene	< 5.00	ug/L	1/24/2020	18:01
n-Butylbenzene	< 2.00	ug/L	1/24/2020	18:01
n-Propylbenzene	< 2.00	ug/L	1/24/2020	18:01

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier: MW5
Lab Sample ID: 200379-02 **Date Sampled:** 1/23/2020
Matrix: Groundwater **Date Received:** 1/23/2020

o-Xylene	< 2.00	ug/L		1/24/2020	18:01
p-Isopropyltoluene	< 2.00	ug/L		1/24/2020	18:01
sec-Butylbenzene	< 2.00	ug/L		1/24/2020	18:01
Styrene	< 5.00	ug/L		1/24/2020	18:01
tert-Butylbenzene	< 2.00	ug/L		1/24/2020	18:01
Tetrachloroethene	< 2.00	ug/L		1/24/2020	18:01
Toluene	< 2.00	ug/L		1/24/2020	18:01
trans-1,2-Dichloroethene	< 2.00	ug/L		1/24/2020	18:01
trans-1,3-Dichloropropene	< 2.00	ug/L		1/24/2020	18:01
Trichloroethene	**1.28**	ug/L	J	1/24/2020	18:01
Trichlorofluoromethane	< 2.00	ug/L		1/24/2020	18:01
Vinyl chloride	< 2.00	ug/L		1/24/2020	18:01

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**125**	74.3 - 138		1/24/2020	18:01
4-Bromofluorobenzene	**74.7**	66.3 - 125		1/24/2020	18:01
Pentafluorobenzene	**99.0**	87.4 - 111		1/24/2020	18:01
Toluene-D8	**89.2**	85.8 - 113		1/24/2020	18:01

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68106.D

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Report Prepared Thursday, February 13, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW5		
Lab Sample ID:	200379-02	**Date Sampled:**	1/23/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.0100	mg/L		1/30/2020

Method Reference(s): SM 4500 CN E - 2011
SM 4500 CN C - 2011

Preparation Date: 1/29/2020

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Report Prepared Thursday, February 13, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200379

Client: **BE3**

Project Reference: 57 Tonawanda

Sample Identifier:	MW5		
Lab Sample ID:	200379-02	**Date Sampled:**	1/23/2020
Matrix:	Groundwater	**Date Received:**	1/23/2020

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 0.203	ug/L		1/27/2020 12:02

Method Reference(s): EPA 8270D SIM
EPA 3510C
Preparation Date: 1/24/2020
Data File: B44127.D

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Report Prepared Thursday, February 13, 2020

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

ANALYTICAL REPORT

Lab Number:	L2003312
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Jane Daloia
Phone:	(585) 647-2530
Project Name:	57 TONAWANDA STREET
Project Number:	57 TONAWANDA
Report Date:	02/12/20

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

Six Park Row, Mansfield, MA 02048
508-261-7467 (Fax) -- -- - emccarter@mansfieldma.com

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003312
Report Date: 02/12/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2003312-01	MW4	WATER	Not Specified	01/23/20 09:30	01/23/20
L2003312-02	MW5	WATER	Not Specified	01/23/20 11:20	01/23/20

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003312
Project Number:	57 TONAWANDA	**Report Date:**	02/12/20

Case Narrative

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

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

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

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

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

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

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003312
Project Number:	57 TONAWANDA	**Report Date:**	02/12/20

Case Narrative (continued)

Report Submission

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

Perfluorinated Alkyl Acids by Isotope Dilution

L2003312-02: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

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

Authorized Signature: Elizabeth Porta

Title: Technical Director/Representative Date: 02/12/20

ORGANICS

SEMIVOLATILES

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA
Lab Number: L2003312
Report Date: 02/12/20

SAMPLE RESULTS

Lab ID: L2003312-01
Client ID: MW4
Sample Location: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/10/20 16:01
Analyst: JW

Date Collected: 01/23/20 09:30
Date Received: 01/23/20
Field Prep: Not Specified

Extraction Method: ALPHA 23528
Extraction Date: 01/27/20 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	5.15		ng/l	1.77	0.362	1
Perfluoropentanoic Acid (PFPeA)	0.770	J	ng/l	1.77	0.351	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.77	0.211	1
Perfluorohexanoic Acid (PFHxA)	0.610	J	ng/l	1.77	0.291	1
Perfluoroheptanoic Acid (PFHpA)	0.206	J	ng/l	1.77	0.200	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.77	0.333	1
Perfluorooctanoic Acid (PFOA)	0.535	J	ng/l	1.77	0.209	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.77	1.18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.77	0.610	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.77	0.276	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.77	0.447	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.77	0.270	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.77	1.07	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.77	0.574	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.77	0.230	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.77	0.869	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.77	0.514	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.77	0.713	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.77	0.330	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.77	0.290	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.77	0.220	1
PFOA/PFOS, Total	0.535	J	ng/l	1.77	0.209	1

Project Name: 57 TONAWANDA STREET **Lab Number:** L2003312

Project Number: 57 TONAWANDA **Report Date:** 02/12/20

SAMPLE RESULTS

Lab ID: L2003312-01 Date Collected: 01/23/20 09:30

Client ID: MW4 Date Received: 01/23/20

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	121		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	130		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	109		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	75		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	24		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	75		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	76		33-143

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA
Lab Number: L2003312
Report Date: 02/12/20

SAMPLE RESULTS

Lab ID: L2003312-02
Client ID: MW5
Sample Location: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/10/20 16:18
Analyst: JW

Date Collected: 01/23/20 11:20
Date Received: 01/23/20
Field Prep: Not Specified

Extraction Method: ALPHA 23528
Extraction Date: 01/27/20 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	2.56		ng/l	1.75	0.358	1
Perfluoropentanoic Acid (PFPeA)	2.06		ng/l	1.75	0.347	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.75	0.209	1
Perfluorohexanoic Acid (PFHxA)	2.13		ng/l	1.75	0.288	1
Perfluoroheptanoic Acid (PFHpA)	0.516	J	ng/l	1.75	0.198	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.75	0.330	1
Perfluorooctanoic Acid (PFOA)	3.04		ng/l	1.75	0.207	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.75	1.17	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.75	0.604	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.75	0.274	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.75	0.442	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.75	0.267	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.75	1.06	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.75	0.568	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.75	0.228	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.75	0.860	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.75	0.509	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.75	0.705	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.75	0.326	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.75	0.287	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.75	0.218	1
PFOA/PFOS, Total	3.04		ng/l	1.75	0.207	1

Project Name: 57 TONAWANDA STREET **Lab Number:** L2003312

Project Number: 57 TONAWANDA **Report Date:** 02/12/20

SAMPLE RESULTS

Lab ID: L2003312-02 Date Collected: 01/23/20 11:20

Client ID: MW5 Date Received: 01/23/20

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	107		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	128		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**286**	Q	1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	101		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**215**	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	73		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	89		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	17		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	82		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	77		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74		33-143

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003312
Report Date: 02/12/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2003312-01A	Plastic 250ml unpreserved	A	NA		4.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2003312-01A1	Plastic 250ml unpreserved	A	NA		4.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2003312-01A2	Plastic 250ml unpreserved	A	NA		4.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2003312-01B	Plastic 250ml unpreserved	A	NA		4.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2003312-01B1	Plastic 250ml unpreserved	A	NA		4.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2003312-01B2	Plastic 250ml unpreserved	A	NA		4.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2003312-02A	Plastic 250ml unpreserved	A	NA		4.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2003312-02B	Plastic 250ml unpreserved	A	NA		4.5	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003312
Report Date: 02/12/20

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003312
Project Number:	57 TONAWANDA	**Report Date:**	02/12/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003312
Project Number:	57 TONAWANDA	**Report Date:**	02/12/20

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003312
Project Number:	57 TONAWANDA	**Report Date:**	02/12/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003312
Project Number:	57 TONAWANDA	**Report Date:**	02/12/20

REFERENCES

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

ANALYTICAL REPORT

Lab Number:	L2003315
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Jane Daloia
Phone:	(585) 647-2530
Project Name:	57 TONAWANDA STREET
Project Number:	57 TONAWANDA
Report Date:	01/30/20

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003315
Report Date: 01/30/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2003315-01	MW4	WATER	Not Specified	01/23/20 09:30	01/23/20
L2003315-02	MW5	WATER	Not Specified	01/23/20 11:20	01/23/20

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003315
Project Number:	57 TONAWANDA	**Report Date:**	01/30/20

Case Narrative

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

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

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

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

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

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

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003315
Project Number:	57 TONAWANDA	**Report Date:**	01/30/20

Case Narrative (continued)

Report Submission

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

Herbicides

L2003315-01: The surrogate recoveries were outside the acceptance criteria for dcaa (13%, 15%); however, the recoveries were confirmed by the QC performed on this sample; therefore, re-extraction was not required.

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

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 01/30/20

ORGANICS

PESTICIDES

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003315
Report Date: 01/30/20

SAMPLE RESULTS

Lab ID: L2003315-01
Client ID: MW4
Sample Location: Not Specified

Date Collected: 01/23/20 09:30
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 01/27/20 22:10
Analyst: JMC

Extraction Method: EPA 8151A
Extraction Date: 01/25/20 02:41

Methylation Date: 01/26/20 06:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**13**	Q	30-150	A
DCAA	**15**	Q	30-150	B

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA
Lab Number: L2003315
Report Date: 01/30/20

SAMPLE RESULTS

Lab ID: L2003315-02
Client ID: MW5
Sample Location: Not Specified

Date Collected: 01/23/20 11:20
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 01/27/20 23:04
Analyst: JMC

Extraction Method: EPA 8151A
Extraction Date: 01/25/20 02:41

Methylation Date: 01/26/20 06:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	38		30-150	A
DCAA	38		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003315
Report Date: 01/30/20

SAMPLE RESULTS

Lab ID: L2003315-01
Client ID: MW4
Sample Location: Not Specified

Date Collected: 01/23/20 09:30
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/24/20 07:00	01/24/20 07:22	1,7196A	JA

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003315
Report Date: 01/30/20

SAMPLE RESULTS

Lab ID: L2003315-02
Client ID: MW5
Sample Location: Not Specified

Date Collected: 01/23/20 11:20
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/24/20 07:00	01/24/20 07:25	1,7196A	JA

Project Name: 57 TONAWANDA STREET
Project Number: 57 TONAWANDA

Lab Number: L2003315
Report Date: 01/30/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2003315-01A	Amber 1000ml unpreserved	A	7	7	4.5	Y	Absent		HERB-APA(7)
L2003315-01A1	Amber 1000ml unpreserved	A	7	7	4.5	Y	Absent		HERB-APA(7)
L2003315-01A2	Amber 1000ml unpreserved	A	7	7	4.5	Y	Absent		HERB-APA(7)
L2003315-01B	Plastic 250ml unpreserved	A	7	7	4.5	Y	Absent		HEXCR-7196(1)
L2003315-01B1	Plastic 250ml unpreserved	A	7	7	4.5	Y	Absent		HEXCR-7196(1)
L2003315-01B2	Plastic 250ml unpreserved	A	7	7	4.5	Y	Absent		HEXCR-7196(1)
L2003315-02A	Amber 1000ml unpreserved	A	7	7	4.5	Y	Absent		HERB-APA(7)
L2003315-02B	Plastic 250ml unpreserved	A	7	7	4.5	Y	Absent		HEXCR-7196(1)

*Values in parentheses indicate holding time in days

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003315
Project Number:	57 TONAWANDA	**Report Date:**	01/30/20

GLOSSARY

Acronyms

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EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

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NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

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NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003315
Project Number:	57 TONAWANDA	**Report Date:**	01/30/20

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003315
Project Number:	57 TONAWANDA	**Report Date:**	01/30/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	57 TONAWANDA STREET	**Lab Number:**	L2003315
Project Number:	57 TONAWANDA	**Report Date:**	01/30/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM

CHAIN OF CUSTODY

~~L2003312~~ CM L2003315

11148

REPORT TO:		INVOICE TO:		
CLIENT:	Paradigm Environmental	CLIENT:	Same	LAB PROJECT ID
ADDRESS:	179 Lake Avenue	ADDRESS:		
CITY:	Rochester STATE: NY ZIP: 14608	CITY:	STATE: ZIP:	Results by 3 PM
PHONE:	585-647-2530	PHONE:		Email:
ATTN:	reporting@paradigmenv.com	ATTN:	accpay@paradigmenv.com	

PROJECT REFERENCE

57 Tonawanda Street

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Hex. Chrome	Silvex	REMARKS	PARADIGM LAB SAMPLE NUMBER
1-23-20	0930		X	MW4	WG	2	X	X		
1-23-20	0930		X	MW4-MS	WG	2	X	X		
1-23-20	0930		X	MW4-MSD	WG	2	X	X		
1-23-20	1120		X	MW5	WG	2	X	X		

Turnaround Time		Report Supplements			
Standard 5 day	X	None Required		None Required	
10 day		Batch QC		Basic EDD	X
Rush 3 day		Category A		NYSDEC EDD	X
Rush 2 day		Category B	X		
Rush 1 day					
Other		Other		Other EDD	

Sampled By	Client	1-23-2020 Date/Time
Relinquished By	[signature]	1-23-2020 15:00 Date/Time
Received By	Jocelyn Flay (AAL)	1/23/20 15:00 Date/Time
Received @ Lab By	Jocelyn Flay (AAL)	1/23/20 15:00 Date/Time
	Wendy Marony	1/24/20 01:00

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

~~L2003315~~ CG L2002312

11148

REPORT TO:		INVOICE TO:		
CLIENT:	Paradigm Environmental	CLIENT:	Same	LAB PROJECT ID
ADDRESS:	179 Lake Avenue	ADDRESS:		
CITY:	Rochester STATE: NY ZIP 14608	CITY:	STATE: ZIP:	Results by 3 PM
PHONE:	585-647-2530	PHONE:		Email:
ATTN:	reporting@paradigmenv.com	ATTN:	accpay@paradigmenv.com	

PROJECT REFERENCE

57 Tonawanda Street

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	PFAS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1-23-20	9:30		X	MW4	WG	2	X		
1-23-20	9:30		X	MW4-MS	WG	2	X		
1-23-20	9:30		X	MW4-MSD	WG	2	X		
1-23-20	11:20		X	MW5	WG	2	X		

Turnaround Time		Report Supplements			
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☒
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other	☐	Other	☐	Other EDD	☐

Sampled By	Client	1-23-2020 Date/Time
Relinquished By	Josh Hoff	1-23-2020 15:00 Date/Time
Received By	Jocelyn Foley (AAL)	1/23/20 15:00 Date/Time
Received @ Lab By	Jocelyn Foley (AAL)	1/23/20 15:00 Date/Time
	Wendy Mooney	1/24/20 01:00

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		
CLIENT:	BE3 Corp	CLIENT:		LAB PROJECT ID: 200379
ADDRESS:	1270 Niagara St	ADDRESS:		Quotation #:
CITY:	Buffalo STATE: NY ZIP 14211	CITY: STATE: ZIP:		Email: Pgorton@Be3corp.com
PHONE:		PHONE:		
ATTN:		ATTN:		

PROJECT REFERENCE: 57 Tonawanda

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	VOC	CAH	Metals	Cn	SVOC	PEST	SILVEX	PCB	PFAS	1,4 DIOX	REMARKS	PARADIGM LAB SAMPLE NUMBER
1-23-20	0930		X	MW4	WG	12	2	1	1	1	1	1	1	1	2	1	All Part 375	01
"	0930		X	MW4-MS	WG	12	"	"	"	"	"	"	"	"	"	"		Rejected 1/23/2020
"	0930		X	MW4-MSD	WG	12	"	"	"	"	"	"	"	"	"	"		
"	1120		X	MW5	WG	12											Pesticide 1/2 full	02
																	Subcontract directly to sub-lab 1/23/2020 MollyPaid	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	None Required		None Required	
10 day		Batch QC		Basic EDD	X
Rush 3 day		Category A		NYSDEC EDD	X
Rush 2 day		Category B	X		
Rush 1 day					
Date Needed _____ please indicate date needed: _____		Other please indicate package needed: _____		Other EDD please indicate EDD needed _____	

Sampled By: John Boyd	Date/Time: 1235 1120	Total Cost:
Relinquished By: Matthew Doerr	Date/Time: 1-23-20 1350	
Received By:	Date/Time: 1-23-20 1350	P.I.F.
Received @ Lab By: MollyPaid	Date/Time: 1/23/2020	

4°C ice 1/23/2020 16:03 Custody Seal intact, signed, dated GP 1/23/2020

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

2/2

Chain of Custody Supplement

Client: BE3 **Completed by:** MKH/AH

Lab Project ID: 200379 **Date:** 1/23/2020

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	~~VOA~~		X
Comments			
Preservation	~~VOA~~ met TCN		~~SVOA~~ Pest PCB
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		~~met~~
Comments	4°C iced		
Compliant Sample Quantity/Type	X		
Comments	No bottle certs for met/TCN not in certified bottles HexCr, Silver, PFAS sent directly to sub-lab		

2020 NYSDEC
REMEDIAL INVESTIGATION REPORT
31 TONAWANDA STREET OFF-SITE

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-177853-1
Client Project/Site: 31 Tonawanda St. - OffSite C915299A

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, New York 14203

Attn: Mr. Glenn May

Authorized for release by:
12/3/2020 7:39:46 AM

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Orlette Johnson
Senior Project Manager
12/3/2020 7:39:46 AM

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-177853-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-177853-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-177853-1

Comments
No additional comments.

Receipt
The samples were received on 11/6/2020 11:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9º C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-8R (480-177853-1) and MW-100 (480-177853-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted due to the abundance of non-target analytes: MW-103 (480-177853-3) and MW-106 (480-177853-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-8R (480-177853-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-558713 recovered outside acceptance criteria, low biased, for Chloromethane and Methyl tert-butyl ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-560399 recovered above the upper control limit for Cyclohexane, 1,1,1-Trichloroethane, Methylcyclohexane, Carbon disulfide, Carbon tetrachloride, 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane, and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-100 DNAPL (480-177853-5).

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: MW-100 DNAPL (480-177853-5). Elevated reporting limits (RLs) are provided.

Method 8260C: Reanalysis of the following sample was performed outside of the analytical holding time due to test being added late : MW-100 DNAPL (480-177853-5).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-559861 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane, Carbon disulfide, Carbon tetrachloride and Methylcyclohexane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-100 DNAPL (480-177853-5).

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: MW-100 DNAPL (480-177853-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-559179 recovered above the upper control limit for 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-8R (480-177853-1), MW-103 (480-177853-3) and MW-106 (480-177853-4).

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-8R (480-177853-1). These results have been reported and qualified.

Methods 8270D, 8270D_LL_PAH: The following sample was diluted to bring the concentration of target analytes within the calibration

Job ID: 480-177853-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

range: MW-100 (480-177853-2). Elevated reporting limits (RLs) are provided.

Methods 8270D, 8270D_LL_PAH: The following samples required a dilution due to the abundance of target analyte(s): MW-100 (480-177853-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-560162 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-560162 recovered above the upper control limit for 4-Nitrophenol and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-100 (480-177853-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8081B: The continuing calibration verification (CCV) associated with batch 480-558484 recovered above the upper control limit for Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-8R (480-177853-1) and MW-106 (480-177853-4).

Method 8081B: The following sample was diluted due to the nature of the sample matrix: MW-100 (480-177853-2). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8081B: The following sample was diluted due to the nature of the sample matrix: MW-100 DNAPL (480-177853-5). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8082A: The continuing calibration verification (CCV) associated with batch 480-558765 recovered above the upper control limit for PCB-1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-8R (480-177853-1), MW-100 (480-177853-2), MW-103 (480-177853-3) and MW-106 (480-177853-4).

Method 8082A: The following samples are associated with a continuing calibration verification (CCV 480-558765/59) that had recoveries for the surrogate Tetrachloro-m-xylene that were above acceptance limits: MW-8R (480-177853-1), MW-100 (480-177853-2), MW-103 (480-177853-3) and MW-106 (480-177853-4). The secondary surrogate Decachlorobiphenyl is within limits; therefore, the data has been reported.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: MW-100 DNAPL (480-177853-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. MW-8R (480-177853-1), MW-100 (480-177853-2), MW-103 (480-177853-3), MW-106 (480-177853-4), (LCS 480-558412/2-A), (MB 480-558412/1-A), (480-177853-G-3-B MS), (480-177853-G-3-C MSD), (480-177853-G-3-A PDS) and (480-177853-G-3-A SD ^5)

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. MW-100 DNAPL (480-177853-5), (LCSSRM 480-559736/2-A) and (MB 480-559736/1-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 480-177853-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: The following sample required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: MW-100 (480-177853-2).

Method 3510C: The following sample was re-prepared outside of preparation holding time due to sample extract evaporating out of vial: MW-100 (480-177853-2).

Method 3580A: The following sample required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: MW-100 DNAPL (480-177853-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: New York State D.E.C.
Job ID: 480-177853-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: MW-100
Lab Sample ID: 480-177853-2
Date Collected: 11/05/20 11:35
Matrix: Water
Date Received: 11/06/20 11:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		200	160	ug/L			11/11/20 13:49	200
1,1,2,2-Tetrachloroethane	ND		200	42	ug/L			11/11/20 13:49	200
1,1,2-Trichloroethane	ND		200	46	ug/L			11/11/20 13:49	200
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		200	62	ug/L			11/11/20 13:49	200
1,1-Dichloroethane	ND		200	76	ug/L			11/11/20 13:49	200
1,1-Dichloroethene	ND		200	58	ug/L			11/11/20 13:49	200
1,2,4-Trichlorobenzene	ND		200	82	ug/L			11/11/20 13:49	200
1,2-Dibromo-3-Chloropropane	ND		200	78	ug/L			11/11/20 13:49	200
1,2-Dichlorobenzene	ND		200	160	ug/L			11/11/20 13:49	200
1,2-Dichloroethane	ND		200	42	ug/L			11/11/20 13:49	200
1,2-Dichloropropane	ND		200	140	ug/L			11/11/20 13:49	200
1,3-Dichlorobenzene	ND		200	160	ug/L			11/11/20 13:49	200
1,4-Dichlorobenzene	ND		200	170	ug/L			11/11/20 13:49	200
2-Butanone (MEK)	ND		2000	260	ug/L			11/11/20 13:49	200
2-Hexanone	ND		1000	250	ug/L			11/11/20 13:49	200
4-Methyl-2-pentanone (MIBK)	ND		1000	420	ug/L			11/11/20 13:49	200
Acetone	ND		2000	600	ug/L			11/11/20 13:49	200
Benzene	**11000**		200	82	ug/L			11/11/20 13:49	200
Bromodichloromethane	ND		200	78	ug/L			11/11/20 13:49	200
Bromoform	ND		200	52	ug/L			11/11/20 13:49	200
Bromomethane	ND		200	140	ug/L			11/11/20 13:49	200
Carbon disulfide	ND		200	38	ug/L			11/11/20 13:49	200
Carbon tetrachloride	ND		200	54	ug/L			11/11/20 13:49	200
Chlorobenzene	ND		200	150	ug/L			11/11/20 13:49	200
Dibromochloromethane	ND		200	64	ug/L			11/11/20 13:49	200
Chloroethane	ND		200	64	ug/L			11/11/20 13:49	200
Chloroform	ND		200	68	ug/L			11/11/20 13:49	200
Chloromethane	ND		200	70	ug/L			11/11/20 13:49	200
cis-1,2-Dichloroethene	ND		200	160	ug/L			11/11/20 13:49	200
cis-1,3-Dichloropropene	ND		200	72	ug/L			11/11/20 13:49	200
Cyclohexane	ND		200	36	ug/L			11/11/20 13:49	200
Dichlorodifluoromethane	ND		200	140	ug/L			11/11/20 13:49	200
Ethylbenzene	**5100**		200	150	ug/L			11/11/20 13:49	200
1,2-Dibromoethane	ND		200	150	ug/L			11/11/20 13:49	200
Isopropylbenzene	ND		200	160	ug/L			11/11/20 13:49	200
Methyl acetate	ND		500	260	ug/L			11/11/20 13:49	200
Methyl tert-butyl ether	ND		200	32	ug/L			11/11/20 13:49	200
Methylcyclohexane	ND		200	32	ug/L			11/11/20 13:49	200
Methylene Chloride	ND		200	88	ug/L			11/11/20 13:49	200
Styrene	**220**		200	150	ug/L			11/11/20 13:49	200
Tetrachloroethene	ND		200	72	ug/L			11/11/20 13:49	200
Toluene	**4000**		200	100	ug/L			11/11/20 13:49	200
trans-1,2-Dichloroethene	ND		200	180	ug/L			11/11/20 13:49	200
trans-1,3-Dichloropropene	ND		200	74	ug/L			11/11/20 13:49	200
Trichloroethene	ND		200	92	ug/L			11/11/20 13:49	200
Trichlorofluoromethane	ND		200	180	ug/L			11/11/20 13:49	200
Vinyl chloride	ND		200	180	ug/L			11/11/20 13:49	200
Xylenes, Total	**3200**		400	130	ug/L			11/11/20 13:49	200

Client Sample ID: MW-100
Lab Sample ID: 480-177853-2

Date Collected: 11/05/20 11:35
Matrix: Water

Date Received: 11/06/20 11:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*105*		*80 - 120*		*11/11/20 13:49*	*200*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*11/11/20 13:49*	*200*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*11/11/20 13:49*	*200*
Dibromofluoromethane (Surr)	*116*		*75 - 123*		*11/11/20 13:49*	*200*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**340**	**H**	250	33	ug/L		11/16/20 15:00	11/20/20 17:42	50
bis (2-chloroisopropyl) ether	ND	H	250	26	ug/L		11/16/20 15:00	11/20/20 17:42	50
2,4,5-Trichlorophenol	ND	H	250	24	ug/L		11/16/20 15:00	11/20/20 17:42	50
2,4,6-Trichlorophenol	ND	H	250	31	ug/L		11/16/20 15:00	11/20/20 17:42	50
2,4-Dichlorophenol	ND	H	250	26	ug/L		11/16/20 15:00	11/20/20 17:42	50
2,4-Dimethylphenol	**26**	**J H**	250	25	ug/L		11/16/20 15:00	11/20/20 17:42	50
2,4-Dinitrophenol	ND	H	500	110	ug/L		11/16/20 15:00	11/20/20 17:42	50
2,4-Dinitrotoluene	ND	H	250	22	ug/L		11/16/20 15:00	11/20/20 17:42	50
2,6-Dinitrotoluene	ND	H	250	20	ug/L		11/16/20 15:00	11/20/20 17:42	50
2-Chloronaphthalene	ND	H	250	23	ug/L		11/16/20 15:00	11/20/20 17:42	50
2-Chlorophenol	ND	H	250	27	ug/L		11/16/20 15:00	11/20/20 17:42	50
2-Methylphenol	ND	H	250	20	ug/L		11/16/20 15:00	11/20/20 17:42	50
2-Methylnaphthalene	**3000**	**H**	250	30	ug/L		11/16/20 15:00	11/20/20 17:42	50
2-Nitroaniline	ND	H	500	21	ug/L		11/16/20 15:00	11/20/20 17:42	50
2-Nitrophenol	ND	H	250	24	ug/L		11/16/20 15:00	11/20/20 17:42	50
3,3'-Dichlorobenzidine	ND	H	250	20	ug/L		11/16/20 15:00	11/20/20 17:42	50
3-Nitroaniline	ND	H	500	24	ug/L		11/16/20 15:00	11/20/20 17:42	50
4,6-Dinitro-2-methylphenol	ND	H	500	110	ug/L		11/16/20 15:00	11/20/20 17:42	50
4-Bromophenyl phenyl ether	ND	H	250	23	ug/L		11/16/20 15:00	11/20/20 17:42	50
4-Chloro-3-methylphenol	ND	H	250	23	ug/L		11/16/20 15:00	11/20/20 17:42	50
4-Chloroaniline	ND	H	250	30	ug/L		11/16/20 15:00	11/20/20 17:42	50
4-Chlorophenyl phenyl ether	ND	H	250	18	ug/L		11/16/20 15:00	11/20/20 17:42	50
4-Methylphenol	ND	H	500	18	ug/L		11/16/20 15:00	11/20/20 17:42	50
4-Nitroaniline	ND	H	500	13	ug/L		11/16/20 15:00	11/20/20 17:42	50
4-Nitrophenol	ND	H	500	76	ug/L		11/16/20 15:00	11/20/20 17:42	50
Acenaphthene	**340**	**H**	250	21	ug/L		11/16/20 15:00	11/20/20 17:42	50
Acenaphthylene	**770**	**H**	250	19	ug/L		11/16/20 15:00	11/20/20 17:42	50
Acetophenone	ND	H	250	27	ug/L		11/16/20 15:00	11/20/20 17:42	50
Anthracene	**330**	**H**	250	14	ug/L		11/16/20 15:00	11/20/20 17:42	50
Atrazine	ND	H	250	23	ug/L		11/16/20 15:00	11/20/20 17:42	50
Benzaldehyde	ND	H	250	13	ug/L		11/16/20 15:00	11/20/20 17:42	50
Benzo[a]anthracene	**170**	**J H**	250	18	ug/L		11/16/20 15:00	11/20/20 17:42	50
Benzo[a]pyrene	**200**	**J H**	250	24	ug/L		11/16/20 15:00	11/20/20 17:42	50
Benzo[b]fluoranthene	**110**	**J H**	250	17	ug/L		11/16/20 15:00	11/20/20 17:42	50
Benzo[g,h,i]perylene	**84**	**J H**	250	18	ug/L		11/16/20 15:00	11/20/20 17:42	50
Benzo[k]fluoranthene	**48**	**J H**	250	37	ug/L		11/16/20 15:00	11/20/20 17:42	50
Bis(2-chloroethoxy)methane	ND	H	250	18	ug/L		11/16/20 15:00	11/20/20 17:42	50
Bis(2-chloroethyl)ether	ND	H	250	20	ug/L		11/16/20 15:00	11/20/20 17:42	50
Bis(2-ethylhexyl) phthalate	ND	H	250	110	ug/L		11/16/20 15:00	11/20/20 17:42	50
Butyl benzyl phthalate	ND	H	250	50	ug/L		11/16/20 15:00	11/20/20 17:42	50
Caprolactam	ND	H	250	110	ug/L		11/16/20 15:00	11/20/20 17:42	50
Carbazole	**16**	**J H**	250	15	ug/L		11/16/20 15:00	11/20/20 17:42	50
Chrysene	**140**	**J H**	250	17	ug/L		11/16/20 15:00	11/20/20 17:42	50

Client Sample ID: MW-100
Lab Sample ID: 480-177853-2
Date Collected: 11/05/20 11:35
Matrix: Water
Date Received: 11/06/20 11:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	**24**	**J H**	250	21	ug/L		11/16/20 15:00	11/20/20 17:42	50
Di-n-butyl phthalate	ND	H	250	16	ug/L		11/16/20 15:00	11/20/20 17:42	50
Di-n-octyl phthalate	ND	H	250	24	ug/L		11/16/20 15:00	11/20/20 17:42	50
Dibenzofuran	**76**	**J H**	500	26	ug/L		11/16/20 15:00	11/20/20 17:42	50
Diethyl phthalate	ND	H	250	11	ug/L		11/16/20 15:00	11/20/20 17:42	50
Dimethyl phthalate	ND	H	250	18	ug/L		11/16/20 15:00	11/20/20 17:42	50
Fluoranthene	**330**	**H**	250	20	ug/L		11/16/20 15:00	11/20/20 17:42	50
Fluorene	**400**	**H**	250	18	ug/L		11/16/20 15:00	11/20/20 17:42	50
Hexachlorobenzene	ND	H	250	26	ug/L		11/16/20 15:00	11/20/20 17:42	50
Hexachlorobutadiene	ND	H	250	34	ug/L		11/16/20 15:00	11/20/20 17:42	50
Hexachlorocyclopentadiene	ND	H	250	30	ug/L		11/16/20 15:00	11/20/20 17:42	50
Hexachloroethane	ND	H	250	30	ug/L		11/16/20 15:00	11/20/20 17:42	50
Indeno[1,2,3-cd]pyrene	**57**	**J H**	250	24	ug/L		11/16/20 15:00	11/20/20 17:42	50
Isophorone	ND	H	250	22	ug/L		11/16/20 15:00	11/20/20 17:42	50
N-Nitrosodi-n-propylamine	ND	H	250	27	ug/L		11/16/20 15:00	11/20/20 17:42	50
N-Nitrosodiphenylamine	ND	H	250	26	ug/L		11/16/20 15:00	11/20/20 17:42	50
Naphthalene	**8300**	**H E**	250	38	ug/L		11/16/20 15:00	11/20/20 17:42	50
Nitrobenzene	ND	H	250	15	ug/L		11/16/20 15:00	11/20/20 17:42	50
Pentachlorophenol	ND	H	500	110	ug/L		11/16/20 15:00	11/20/20 17:42	50
Phenanthrene	**1200**	**H**	250	22	ug/L		11/16/20 15:00	11/20/20 17:42	50
Phenol	**39**	**J H**	250	20	ug/L		11/16/20 15:00	11/20/20 17:42	50
Pyrene	**620**	**H**	250	17	ug/L		11/16/20 15:00	11/20/20 17:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*156*	*X*	*46 - 120*	*11/16/20 15:00*	*11/20/20 17:42*	*50*
Phenol-d5 (Surr)	*0*	*X*	*22 - 120*	*11/16/20 15:00*	*11/20/20 17:42*	*50*
p-Terphenyl-d14 (Surr)	*70*		*60 - 148*	*11/16/20 15:00*	*11/20/20 17:42*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*41 - 120*	*11/16/20 15:00*	*11/20/20 17:42*	*50*
2-Fluorobiphenyl (Surr)	*100*		*48 - 120*	*11/16/20 15:00*	*11/20/20 17:42*	*50*
2-Fluorophenol (Surr)	*0*	*X*	*35 - 120*	*11/16/20 15:00*	*11/20/20 17:42*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**360**	**J H**	1000	130	ug/L		11/16/20 15:00	11/23/20 19:11	200
bis (2-chloroisopropyl) ether	ND	H	1000	100	ug/L		11/16/20 15:00	11/23/20 19:11	200
2,4,5-Trichlorophenol	ND	H	1000	96	ug/L		11/16/20 15:00	11/23/20 19:11	200
2,4,6-Trichlorophenol	ND	H	1000	120	ug/L		11/16/20 15:00	11/23/20 19:11	200
2,4-Dichlorophenol	ND	H	1000	100	ug/L		11/16/20 15:00	11/23/20 19:11	200
2,4-Dimethylphenol	ND	H	1000	100	ug/L		11/16/20 15:00	11/23/20 19:11	200
2,4-Dinitrophenol	ND	H	2000	440	ug/L		11/16/20 15:00	11/23/20 19:11	200
2,4-Dinitrotoluene	ND	H	1000	89	ug/L		11/16/20 15:00	11/23/20 19:11	200
2,6-Dinitrotoluene	ND	H	1000	80	ug/L		11/16/20 15:00	11/23/20 19:11	200
2-Chloronaphthalene	ND	H	1000	92	ug/L		11/16/20 15:00	11/23/20 19:11	200
2-Chlorophenol	ND	H	1000	110	ug/L		11/16/20 15:00	11/23/20 19:11	200
2-Methylphenol	ND	H	1000	80	ug/L		11/16/20 15:00	11/23/20 19:11	200
2-Methylnaphthalene	**3400**	**H**	1000	120	ug/L		11/16/20 15:00	11/23/20 19:11	200
2-Nitroaniline	ND	H	2000	84	ug/L		11/16/20 15:00	11/23/20 19:11	200
2-Nitrophenol	ND	H	1000	96	ug/L		11/16/20 15:00	11/23/20 19:11	200
3,3'-Dichlorobenzidine	ND	H	1000	80	ug/L		11/16/20 15:00	11/23/20 19:11	200
3-Nitroaniline	ND	H	2000	96	ug/L		11/16/20 15:00	11/23/20 19:11	200

Client: New York State D.E.C.
Job ID: 480-177853-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: MW-100
Lab Sample ID: 480-177853-2
Date Collected: 11/05/20 11:35
Matrix: Water
Date Received: 11/06/20 11:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND	H	2000	440	ug/L		11/16/20 15:00	11/23/20 19:11	200
4-Bromophenyl phenyl ether	ND	H	1000	90	ug/L		11/16/20 15:00	11/23/20 19:11	200
4-Chloro-3-methylphenol	ND	H	1000	90	ug/L		11/16/20 15:00	11/23/20 19:11	200
4-Chloroaniline	ND	H	1000	120	ug/L		11/16/20 15:00	11/23/20 19:11	200
4-Chlorophenyl phenyl ether	ND	H	1000	70	ug/L		11/16/20 15:00	11/23/20 19:11	200
4-Methylphenol	ND	H	2000	72	ug/L		11/16/20 15:00	11/23/20 19:11	200
4-Nitroaniline	ND	H	2000	50	ug/L		11/16/20 15:00	11/23/20 19:11	200
4-Nitrophenol	ND	H	2000	300	ug/L		11/16/20 15:00	11/23/20 19:11	200
Acenaphthene	**360**	**J H**	1000	82	ug/L		11/16/20 15:00	11/23/20 19:11	200
Acenaphthylene	**830**	**J H**	1000	76	ug/L		11/16/20 15:00	11/23/20 19:11	200
Acetophenone	ND	H	1000	110	ug/L		11/16/20 15:00	11/23/20 19:11	200
Anthracene	**330**	**J H**	1000	56	ug/L		11/16/20 15:00	11/23/20 19:11	200
Atrazine	ND	H	1000	92	ug/L		11/16/20 15:00	11/23/20 19:11	200
Benzaldehyde	ND	H	1000	53	ug/L		11/16/20 15:00	11/23/20 19:11	200
Benzo[a]anthracene	ND	H	1000	72	ug/L		11/16/20 15:00	11/23/20 19:11	200
Benzo[a]pyrene	**230**	**J H**	1000	94	ug/L		11/16/20 15:00	11/23/20 19:11	200
Benzo[b]fluoranthene	**130**	**J H**	1000	68	ug/L		11/16/20 15:00	11/23/20 19:11	200
Benzo[g,h,i]perylene	**110**	**J H**	1000	70	ug/L		11/16/20 15:00	11/23/20 19:11	200
Benzo[k]fluoranthene	ND	H	1000	150	ug/L		11/16/20 15:00	11/23/20 19:11	200
Bis(2-chloroethoxy)methane	ND	H	1000	70	ug/L		11/16/20 15:00	11/23/20 19:11	200
Bis(2-chloroethyl)ether	ND	H	1000	80	ug/L		11/16/20 15:00	11/23/20 19:11	200
Bis(2-ethylhexyl) phthalate	ND	H	1000	440	ug/L		11/16/20 15:00	11/23/20 19:11	200
Butyl benzyl phthalate	ND	H	1000	200	ug/L		11/16/20 15:00	11/23/20 19:11	200
Caprolactam	ND	H	1000	440	ug/L		11/16/20 15:00	11/23/20 19:11	200
Carbazole	ND	H	1000	60	ug/L		11/16/20 15:00	11/23/20 19:11	200
Chrysene	**170**	**J H**	1000	66	ug/L		11/16/20 15:00	11/23/20 19:11	200
Dibenz(a,h)anthracene	ND	H	1000	84	ug/L		11/16/20 15:00	11/23/20 19:11	200
Di-n-butyl phthalate	ND	H	1000	62	ug/L		11/16/20 15:00	11/23/20 19:11	200
Di-n-octyl phthalate	ND	H	1000	94	ug/L		11/16/20 15:00	11/23/20 19:11	200
Dibenzofuran	ND	H	2000	100	ug/L		11/16/20 15:00	11/23/20 19:11	200
Diethyl phthalate	ND	H	1000	44	ug/L		11/16/20 15:00	11/23/20 19:11	200
Dimethyl phthalate	ND	H	1000	72	ug/L		11/16/20 15:00	11/23/20 19:11	200
Fluoranthene	**370**	**J H**	1000	80	ug/L		11/16/20 15:00	11/23/20 19:11	200
Fluorene	**430**	**J H**	1000	72	ug/L		11/16/20 15:00	11/23/20 19:11	200
Hexachlorobenzene	ND	H	1000	100	ug/L		11/16/20 15:00	11/23/20 19:11	200
Hexachlorobutadiene	ND	H	1000	140	ug/L		11/16/20 15:00	11/23/20 19:11	200
Hexachlorocyclopentadiene	ND	H	1000	120	ug/L		11/16/20 15:00	11/23/20 19:11	200
Hexachloroethane	ND	H	1000	120	ug/L		11/16/20 15:00	11/23/20 19:11	200
Indeno[1,2,3-cd]pyrene	ND	H	1000	94	ug/L		11/16/20 15:00	11/23/20 19:11	200
Isophorone	ND	H	1000	86	ug/L		11/16/20 15:00	11/23/20 19:11	200
N-Nitrosodi-n-propylamine	ND	H	1000	110	ug/L		11/16/20 15:00	11/23/20 19:11	200
N-Nitrosodiphenylamine	ND	H	1000	100	ug/L		11/16/20 15:00	11/23/20 19:11	200
Naphthalene	**12000**	**H**	1000	150	ug/L		11/16/20 15:00	11/23/20 19:11	200
Nitrobenzene	ND	H	1000	58	ug/L		11/16/20 15:00	11/23/20 19:11	200
Pentachlorophenol	ND	H	2000	440	ug/L		11/16/20 15:00	11/23/20 19:11	200
Phenanthrene	**1300**	**H**	1000	88	ug/L		11/16/20 15:00	11/23/20 19:11	200
Phenol	ND	H	1000	78	ug/L		11/16/20 15:00	11/23/20 19:11	200
Pyrene	**660**	**J H**	1000	68	ug/L		11/16/20 15:00	11/23/20 19:11	200

Client Sample ID: MW-100
Date Collected: 11/05/20 11:35
Date Received: 11/06/20 11:30

Lab Sample ID: 480-177853-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	*0*	*X*	*46 - 120*	*11/16/20 15:00*	*11/23/20 19:11*	*200*
Phenol-d5 (Surr)	*0*	*X*	*22 - 120*	*11/16/20 15:00*	*11/23/20 19:11*	*200*
p-Terphenyl-d14 (Surr)	*0*	*X*	*60 - 148*	*11/16/20 15:00*	*11/23/20 19:11*	*200*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*41 - 120*	*11/16/20 15:00*	*11/23/20 19:11*	*200*
2-Fluorobiphenyl (Surr)	*105*		*48 - 120*	*11/16/20 15:00*	*11/23/20 19:11*	*200*
2-Fluorophenol (Surr)	*0*	*X*	*35 - 120*	*11/16/20 15:00*	*11/23/20 19:11*	*200*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.92	ug/L		11/10/20 08:39	11/12/20 10:05	100
4,4'-DDE	ND		5.0	1.2	ug/L		11/10/20 08:39	11/12/20 10:05	100
4,4'-DDT	ND		5.0	1.1	ug/L		11/10/20 08:39	11/12/20 10:05	100
Aldrin	ND		5.0	0.81	ug/L		11/10/20 08:39	11/12/20 10:05	100
alpha-BHC	ND		5.0	0.77	ug/L		11/10/20 08:39	11/12/20 10:05	100
cis-Chlordane	ND		5.0	1.5	ug/L		11/10/20 08:39	11/12/20 10:05	100
beta-BHC	ND		5.0	2.5	ug/L		11/10/20 08:39	11/12/20 10:05	100
delta-BHC	ND		5.0	1.0	ug/L		11/10/20 08:39	11/12/20 10:05	100
Dieldrin	ND		5.0	0.98	ug/L		11/10/20 08:39	11/12/20 10:05	100
Endosulfan I	ND		5.0	1.1	ug/L		11/10/20 08:39	11/12/20 10:05	100
Endosulfan II	ND		5.0	1.2	ug/L		11/10/20 08:39	11/12/20 10:05	100
Endosulfan sulfate	ND		5.0	1.6	ug/L		11/10/20 08:39	11/12/20 10:05	100
Endrin	ND		5.0	1.4	ug/L		11/10/20 08:39	11/12/20 10:05	100
Endrin aldehyde	ND		5.0	1.6	ug/L		11/10/20 08:39	11/12/20 10:05	100
Endrin ketone	ND		5.0	1.2	ug/L		11/10/20 08:39	11/12/20 10:05	100
gamma-BHC (Lindane)	ND		5.0	0.80	ug/L		11/10/20 08:39	11/12/20 10:05	100
trans-Chlordane	ND		5.0	1.1	ug/L		11/10/20 08:39	11/12/20 10:05	100
Heptachlor	ND		5.0	0.85	ug/L		11/10/20 08:39	11/12/20 10:05	100
Heptachlor epoxide	ND		5.0	0.74	ug/L		11/10/20 08:39	11/12/20 10:05	100
Methoxychlor	ND		5.0	1.4	ug/L		11/10/20 08:39	11/12/20 10:05	100
Toxaphene	ND		50	12	ug/L		11/10/20 08:39	11/12/20 10:05	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*0*	*X*	*20 - 120*	*11/10/20 08:39*	*11/12/20 10:05*	*100*
DCB Decachlorobiphenyl	*0*	*X*	*20 - 120*	*11/10/20 08:39*	*11/12/20 10:05*	*100*
Tetrachloro-m-xylene	*0*	*X*	*44 - 120*	*11/10/20 08:39*	*11/12/20 10:05*	*100*
Tetrachloro-m-xylene	*0*	*X*	*44 - 120*	*11/10/20 08:39*	*11/12/20 10:05*	*100*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		11/11/20 09:34	11/13/20 06:57	1
PCB-1221	ND		0.50	0.18	ug/L		11/11/20 09:34	11/13/20 06:57	1
PCB-1232	ND		0.50	0.18	ug/L		11/11/20 09:34	11/13/20 06:57	1
PCB-1242	ND		0.50	0.18	ug/L		11/11/20 09:34	11/13/20 06:57	1
PCB-1248	ND		0.50	0.18	ug/L		11/11/20 09:34	11/13/20 06:57	1
PCB-1254	ND		0.50	0.25	ug/L		11/11/20 09:34	11/13/20 06:57	1
PCB-1260	ND		0.50	0.25	ug/L		11/11/20 09:34	11/13/20 06:57	1
PCB-1262	ND		0.50	0.25	ug/L		11/11/20 09:34	11/13/20 06:57	1
PCB-1268	ND		0.50	0.25	ug/L		11/11/20 09:34	11/13/20 06:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	*86*		*39 - 121*	*11/11/20 09:34*	*11/13/20 06:57*	*1*

Client: New York State D.E.C.
Job ID: 480-177853-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: MW-100
Lab Sample ID: 480-177853-2
Date Collected: 11/05/20 11:35
Matrix: Water
Date Received: 11/06/20 11:30

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*95*		*39 - 121*	*11/11/20 09:34*	*11/13/20 06:57*	*1*
DCB Decachlorobiphenyl (Surr)	*42*		*19 - 120*	*11/11/20 09:34*	*11/13/20 06:57*	*1*
DCB Decachlorobiphenyl (Surr)	*48*		*19 - 120*	*11/11/20 09:34*	*11/13/20 06:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2.8**		0.20	0.060	mg/L		11/11/20 12:42	11/13/20 18:38	1
Antimony	ND		0.020	0.0068	mg/L		11/11/20 12:42	11/13/20 18:38	1
Arsenic	ND		0.015	0.0056	mg/L		11/11/20 12:42	11/13/20 18:38	1
Barium	**0.68**	^	0.0020	0.00070	mg/L		11/11/20 12:42	11/13/20 18:38	1
Beryllium	ND		0.0020	0.00030	mg/L		11/11/20 12:42	11/13/20 18:38	1
Cadmium	**0.00091**	J	0.0020	0.00050	mg/L		11/11/20 12:42	11/13/20 18:38	1
Calcium	**217**		0.50	0.10	mg/L		11/11/20 12:42	11/13/20 18:38	1
Chromium	**0.0060**		0.0040	0.0010	mg/L		11/11/20 12:42	11/13/20 18:38	1
Cobalt	**0.0027**	J	0.0040	0.00063	mg/L		11/11/20 12:42	11/13/20 18:38	1
Copper	**0.018**		0.010	0.0016	mg/L		11/11/20 12:42	11/13/20 18:38	1
Iron	**4.9**		0.050	0.019	mg/L		11/11/20 12:42	11/13/20 18:38	1
Lead	**0.037**		0.010	0.0030	mg/L		11/11/20 12:42	11/13/20 18:38	1
Magnesium	**166**		0.20	0.043	mg/L		11/11/20 12:42	11/13/20 18:38	1
Manganese	**0.37**		0.0030	0.00040	mg/L		11/11/20 12:42	11/13/20 18:38	1
Nickel	**0.0035**	J	0.010	0.0013	mg/L		11/11/20 12:42	11/13/20 18:38	1
Potassium	**9.9**		0.50	0.10	mg/L		11/11/20 12:42	11/13/20 18:38	1
Selenium	ND		0.025	0.0087	mg/L		11/11/20 12:42	11/13/20 18:38	1
Silver	ND		0.0060	0.0017	mg/L		11/11/20 12:42	11/13/20 18:38	1
Sodium	**173**		1.0	0.32	mg/L		11/11/20 12:42	11/13/20 18:38	1
Thallium	ND		0.020	0.010	mg/L		11/11/20 12:42	11/13/20 18:38	1
Vanadium	**0.010**		0.0050	0.0015	mg/L		11/11/20 12:42	11/13/20 18:38	1
Zinc	**0.062**		0.010	0.0015	mg/L		11/11/20 12:42	11/13/20 18:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		11/16/20 13:25	11/16/20 16:51	1

Client: New York State D.E.C.
Job ID: 480-177853-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: MW-103
Lab Sample ID: 480-177853-3
Date Collected: 11/05/20 14:05
Matrix: Water
Date Received: 11/06/20 11:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			11/11/20 14:13	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			11/11/20 14:13	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			11/11/20 14:13	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			11/11/20 14:13	20
1,1-Dichloroethane	ND		20	7.6	ug/L			11/11/20 14:13	20
1,1-Dichloroethene	ND		20	5.8	ug/L			11/11/20 14:13	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			11/11/20 14:13	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			11/11/20 14:13	20
1,2-Dichlorobenzene	ND		20	16	ug/L			11/11/20 14:13	20
1,2-Dichloroethane	ND		20	4.2	ug/L			11/11/20 14:13	20
1,2-Dichloropropane	ND		20	14	ug/L			11/11/20 14:13	20
1,3-Dichlorobenzene	ND		20	16	ug/L			11/11/20 14:13	20
1,4-Dichlorobenzene	ND		20	17	ug/L			11/11/20 14:13	20
2-Butanone (MEK)	ND		200	26	ug/L			11/11/20 14:13	20
2-Hexanone	ND		100	25	ug/L			11/11/20 14:13	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			11/11/20 14:13	20
Acetone	ND		200	60	ug/L			11/11/20 14:13	20
Benzene	**18**	**J**	20	8.2	ug/L			11/11/20 14:13	20
Bromodichloromethane	ND		20	7.8	ug/L			11/11/20 14:13	20
Bromoform	ND		20	5.2	ug/L			11/11/20 14:13	20
Bromomethane	ND		20	14	ug/L			11/11/20 14:13	20
Carbon disulfide	ND		20	3.8	ug/L			11/11/20 14:13	20
Carbon tetrachloride	ND		20	5.4	ug/L			11/11/20 14:13	20
Chlorobenzene	ND		20	15	ug/L			11/11/20 14:13	20
Dibromochloromethane	ND		20	6.4	ug/L			11/11/20 14:13	20
Chloroethane	ND		20	6.4	ug/L			11/11/20 14:13	20
Chloroform	ND		20	6.8	ug/L			11/11/20 14:13	20
Chloromethane	ND		20	7.0	ug/L			11/11/20 14:13	20
cis-1,2-Dichloroethene	ND		20	16	ug/L			11/11/20 14:13	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			11/11/20 14:13	20
Cyclohexane	ND		20	3.6	ug/L			11/11/20 14:13	20
Dichlorodifluoromethane	ND		20	14	ug/L			11/11/20 14:13	20
Ethylbenzene	**170**		20	15	ug/L			11/11/20 14:13	20
1,2-Dibromoethane	ND		20	15	ug/L			11/11/20 14:13	20
Isopropylbenzene	ND		20	16	ug/L			11/11/20 14:13	20
Methyl acetate	ND		50	26	ug/L			11/11/20 14:13	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			11/11/20 14:13	20
Methylcyclohexane	ND		20	3.2	ug/L			11/11/20 14:13	20
Methylene Chloride	ND		20	8.8	ug/L			11/11/20 14:13	20
Styrene	ND		20	15	ug/L			11/11/20 14:13	20
Tetrachloroethene	ND		20	7.2	ug/L			11/11/20 14:13	20
Toluene	**10**	**J**	20	10	ug/L			11/11/20 14:13	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			11/11/20 14:13	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			11/11/20 14:13	20
Trichloroethene	ND		20	9.2	ug/L			11/11/20 14:13	20
Trichlorofluoromethane	ND		20	18	ug/L			11/11/20 14:13	20
Vinyl chloride	ND		20	18	ug/L			11/11/20 14:13	20
Xylenes, Total	**110**		40	13	ug/L			11/11/20 14:13	20

Client Sample ID: MW-103
Lab Sample ID: 480-177853-3

Date Collected: 11/05/20 14:05
Matrix: Water
Date Received: 11/06/20 11:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*105*		*80 - 120*		*11/11/20 14:13*	*20*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*11/11/20 14:13*	*20*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*11/11/20 14:13*	*20*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*11/11/20 14:13*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		11/11/20 15:04	11/15/20 22:00	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		11/11/20 15:04	11/15/20 22:00	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		11/11/20 15:04	11/15/20 22:00	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		11/11/20 15:04	11/15/20 22:00	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		11/11/20 15:04	11/15/20 22:00	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		11/11/20 15:04	11/15/20 22:00	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		11/11/20 15:04	11/15/20 22:00	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		11/11/20 15:04	11/15/20 22:00	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		11/11/20 15:04	11/15/20 22:00	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		11/11/20 15:04	11/15/20 22:00	1
2-Chlorophenol	ND		5.0	0.53	ug/L		11/11/20 15:04	11/15/20 22:00	1
2-Methylphenol	ND		5.0	0.40	ug/L		11/11/20 15:04	11/15/20 22:00	1
2-Methylnaphthalene	**74**	**E**	5.0	0.60	ug/L		11/11/20 15:04	11/15/20 22:00	1
2-Nitroaniline	ND		10	0.42	ug/L		11/11/20 15:04	11/15/20 22:00	1
2-Nitrophenol	ND		5.0	0.48	ug/L		11/11/20 15:04	11/15/20 22:00	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		11/11/20 15:04	11/15/20 22:00	1
3-Nitroaniline	ND		10	0.48	ug/L		11/11/20 15:04	11/15/20 22:00	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		11/11/20 15:04	11/15/20 22:00	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		11/11/20 15:04	11/15/20 22:00	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		11/11/20 15:04	11/15/20 22:00	1
4-Chloroaniline	ND		5.0	0.59	ug/L		11/11/20 15:04	11/15/20 22:00	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		11/11/20 15:04	11/15/20 22:00	1
4-Methylphenol	ND		10	0.36	ug/L		11/11/20 15:04	11/15/20 22:00	1
4-Nitroaniline	ND		10	0.25	ug/L		11/11/20 15:04	11/15/20 22:00	1
4-Nitrophenol	ND		10	1.5	ug/L		11/11/20 15:04	11/15/20 22:00	1
Acenaphthene	**110**	**E**	5.0	0.41	ug/L		11/11/20 15:04	11/15/20 22:00	1
Acenaphthylene	**12**		5.0	0.38	ug/L		11/11/20 15:04	11/15/20 22:00	1
Acetophenone	ND		5.0	0.54	ug/L		11/11/20 15:04	11/15/20 22:00	1
Anthracene	**17**		5.0	0.28	ug/L		11/11/20 15:04	11/15/20 22:00	1
Atrazine	ND		5.0	0.46	ug/L		11/11/20 15:04	11/15/20 22:00	1
Benzaldehyde	ND		5.0	0.27	ug/L		11/11/20 15:04	11/15/20 22:00	1
Benzo[a]anthracene	**0.68**	**J**	5.0	0.36	ug/L		11/11/20 15:04	11/15/20 22:00	1
Benzo[a]pyrene	**0.52**	**J**	5.0	0.47	ug/L		11/11/20 15:04	11/15/20 22:00	1
Benzo[b]fluoranthene	**0.34**	**J**	5.0	0.34	ug/L		11/11/20 15:04	11/15/20 22:00	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/11/20 15:04	11/15/20 22:00	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/11/20 15:04	11/15/20 22:00	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		11/11/20 15:04	11/15/20 22:00	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		11/11/20 15:04	11/15/20 22:00	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/11/20 15:04	11/15/20 22:00	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		11/11/20 15:04	11/15/20 22:00	1
Caprolactam	ND		5.0	2.2	ug/L		11/11/20 15:04	11/15/20 22:00	1
Carbazole	**1.5**	**J**	5.0	0.30	ug/L		11/11/20 15:04	11/15/20 22:00	1
Chrysene	**0.53**	**J**	5.0	0.33	ug/L		11/11/20 15:04	11/15/20 22:00	1

Client Sample ID: MW-103
Date Collected: 11/05/20 14:05
Date Received: 11/06/20 11:30

Lab Sample ID: 480-177853-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/11/20 15:04	11/15/20 22:00	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		11/11/20 15:04	11/15/20 22:00	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		11/11/20 15:04	11/15/20 22:00	1
Dibenzofuran	**7.2**	**J**	10	0.51	ug/L		11/11/20 15:04	11/15/20 22:00	1
Diethyl phthalate	ND		5.0	0.22	ug/L		11/11/20 15:04	11/15/20 22:00	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		11/11/20 15:04	11/15/20 22:00	1
Fluoranthene	**7.0**		5.0	0.40	ug/L		11/11/20 15:04	11/15/20 22:00	1
Fluorene	**42**		5.0	0.36	ug/L		11/11/20 15:04	11/15/20 22:00	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		11/11/20 15:04	11/15/20 22:00	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		11/11/20 15:04	11/15/20 22:00	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		11/11/20 15:04	11/15/20 22:00	1
Hexachloroethane	ND		5.0	0.59	ug/L		11/11/20 15:04	11/15/20 22:00	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/11/20 15:04	11/15/20 22:00	1
Isophorone	ND		5.0	0.43	ug/L		11/11/20 15:04	11/15/20 22:00	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		11/11/20 15:04	11/15/20 22:00	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		11/11/20 15:04	11/15/20 22:00	1
Naphthalene	**27**		5.0	0.76	ug/L		11/11/20 15:04	11/15/20 22:00	1
Nitrobenzene	ND		5.0	0.29	ug/L		11/11/20 15:04	11/15/20 22:00	1
Pentachlorophenol	ND		10	2.2	ug/L		11/11/20 15:04	11/15/20 22:00	1
Phenanthrene	**73**	**E**	5.0	0.44	ug/L		11/11/20 15:04	11/15/20 22:00	1
Phenol	**1.9**	**J**	5.0	0.39	ug/L		11/11/20 15:04	11/15/20 22:00	1
Pyrene	**10**		5.0	0.34	ug/L		11/11/20 15:04	11/15/20 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*103*		*46 - 120*	*11/11/20 15:04*	*11/15/20 22:00*	*1*
Phenol-d5 (Surr)	*50*		*22 - 120*	*11/11/20 15:04*	*11/15/20 22:00*	*1*
p-Terphenyl-d14 (Surr)	*78*		*60 - 148*	*11/11/20 15:04*	*11/15/20 22:00*	*1*
2,4,6-Tribromophenol (Surr)	*115*		*41 - 120*	*11/11/20 15:04*	*11/15/20 22:00*	*1*
2-Fluorobiphenyl (Surr)	*108*		*48 - 120*	*11/11/20 15:04*	*11/15/20 22:00*	*1*
2-Fluorophenol (Surr)	*69*		*35 - 120*	*11/11/20 15:04*	*11/15/20 22:00*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		25	3.3	ug/L		11/11/20 15:04	11/23/20 23:27	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		11/11/20 15:04	11/23/20 23:27	5
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		11/11/20 15:04	11/23/20 23:27	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		11/11/20 15:04	11/23/20 23:27	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		11/11/20 15:04	11/23/20 23:27	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		11/11/20 15:04	11/23/20 23:27	5
2,4-Dinitrophenol	ND		50	11	ug/L		11/11/20 15:04	11/23/20 23:27	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		11/11/20 15:04	11/23/20 23:27	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		11/11/20 15:04	11/23/20 23:27	5
2-Chloronaphthalene	ND		25	2.3	ug/L		11/11/20 15:04	11/23/20 23:27	5
2-Chlorophenol	ND		25	2.7	ug/L		11/11/20 15:04	11/23/20 23:27	5
2-Methylphenol	ND		25	2.0	ug/L		11/11/20 15:04	11/23/20 23:27	5
2-Methylnaphthalene	**81**		25	3.0	ug/L		11/11/20 15:04	11/23/20 23:27	5
2-Nitroaniline	ND		50	2.1	ug/L		11/11/20 15:04	11/23/20 23:27	5
2-Nitrophenol	ND		25	2.4	ug/L		11/11/20 15:04	11/23/20 23:27	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		11/11/20 15:04	11/23/20 23:27	5
3-Nitroaniline	ND		50	2.4	ug/L		11/11/20 15:04	11/23/20 23:27	5

Client: New York State D.E.C.
Job ID: 480-177853-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: MW-103
Lab Sample ID: 480-177853-3
Date Collected: 11/05/20 14:05
Matrix: Water
Date Received: 11/06/20 11:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		11/11/20 15:04	11/23/20 23:27	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		11/11/20 15:04	11/23/20 23:27	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		11/11/20 15:04	11/23/20 23:27	5
4-Chloroaniline	ND		25	3.0	ug/L		11/11/20 15:04	11/23/20 23:27	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		11/11/20 15:04	11/23/20 23:27	5
4-Methylphenol	ND		50	1.8	ug/L		11/11/20 15:04	11/23/20 23:27	5
4-Nitroaniline	ND		50	1.3	ug/L		11/11/20 15:04	11/23/20 23:27	5
4-Nitrophenol	ND		50	7.6	ug/L		11/11/20 15:04	11/23/20 23:27	5
Acenaphthene	**110**		25	2.1	ug/L		11/11/20 15:04	11/23/20 23:27	5
Acenaphthylene	**10**	**J**	25	1.9	ug/L		11/11/20 15:04	11/23/20 23:27	5
Acetophenone	ND		25	2.7	ug/L		11/11/20 15:04	11/23/20 23:27	5
Anthracene	**16**	**J**	25	1.4	ug/L		11/11/20 15:04	11/23/20 23:27	5
Atrazine	ND		25	2.3	ug/L		11/11/20 15:04	11/23/20 23:27	5
Benzaldehyde	**7.3**	**J**	25	1.3	ug/L		11/11/20 15:04	11/23/20 23:27	5
Benzo[a]anthracene	ND		25	1.8	ug/L		11/11/20 15:04	11/23/20 23:27	5
Benzo[a]pyrene	ND		25	2.4	ug/L		11/11/20 15:04	11/23/20 23:27	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		11/11/20 15:04	11/23/20 23:27	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		11/11/20 15:04	11/23/20 23:27	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		11/11/20 15:04	11/23/20 23:27	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		11/11/20 15:04	11/23/20 23:27	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		11/11/20 15:04	11/23/20 23:27	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		11/11/20 15:04	11/23/20 23:27	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		11/11/20 15:04	11/23/20 23:27	5
Caprolactam	ND		25	11	ug/L		11/11/20 15:04	11/23/20 23:27	5
Carbazole	ND		25	1.5	ug/L		11/11/20 15:04	11/23/20 23:27	5
Chrysene	ND		25	1.7	ug/L		11/11/20 15:04	11/23/20 23:27	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		11/11/20 15:04	11/23/20 23:27	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		11/11/20 15:04	11/23/20 23:27	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		11/11/20 15:04	11/23/20 23:27	5
Dibenzofuran	**7.2**	**J**	50	2.6	ug/L		11/11/20 15:04	11/23/20 23:27	5
Diethyl phthalate	ND		25	1.1	ug/L		11/11/20 15:04	11/23/20 23:27	5
Dimethyl phthalate	ND		25	1.8	ug/L		11/11/20 15:04	11/23/20 23:27	5
Fluoranthene	**6.8**	**J**	25	2.0	ug/L		11/11/20 15:04	11/23/20 23:27	5
Fluorene	**40**		25	1.8	ug/L		11/11/20 15:04	11/23/20 23:27	5
Hexachlorobenzene	ND		25	2.6	ug/L		11/11/20 15:04	11/23/20 23:27	5
Hexachlorobutadiene	ND		25	3.4	ug/L		11/11/20 15:04	11/23/20 23:27	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		11/11/20 15:04	11/23/20 23:27	5
Hexachloroethane	ND		25	3.0	ug/L		11/11/20 15:04	11/23/20 23:27	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		11/11/20 15:04	11/23/20 23:27	5
Isophorone	ND		25	2.2	ug/L		11/11/20 15:04	11/23/20 23:27	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		11/11/20 15:04	11/23/20 23:27	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		11/11/20 15:04	11/23/20 23:27	5
Naphthalene	**27**		25	3.8	ug/L		11/11/20 15:04	11/23/20 23:27	5
Nitrobenzene	ND		25	1.5	ug/L		11/11/20 15:04	11/23/20 23:27	5
Pentachlorophenol	ND		50	11	ug/L		11/11/20 15:04	11/23/20 23:27	5
Phenanthrene	**77**		25	2.2	ug/L		11/11/20 15:04	11/23/20 23:27	5
Phenol	ND		25	2.0	ug/L		11/11/20 15:04	11/23/20 23:27	5
Pyrene	**9.7**	**J**	25	1.7	ug/L		11/11/20 15:04	11/23/20 23:27	5

Client Sample ID: MW-103
Lab Sample ID: 480-177853-3
Date Collected: 11/05/20 14:05
Matrix: Water
Date Received: 11/06/20 11:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	89		46 - 120	11/11/20 15:04	11/23/20 23:27	5
Phenol-d5 (Surr)	43		22 - 120	11/11/20 15:04	11/23/20 23:27	5
p-Terphenyl-d14 (Surr)	76		60 - 148	11/11/20 15:04	11/23/20 23:27	5
2,4,6-Tribromophenol (Surr)	114		41 - 120	11/11/20 15:04	11/23/20 23:27	5
2-Fluorobiphenyl (Surr)	104		48 - 120	11/11/20 15:04	11/23/20 23:27	5
2-Fluorophenol (Surr)	59		35 - 120	11/11/20 15:04	11/23/20 23:27	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		11/10/20 08:39	11/12/20 10:25	1
4,4'-DDE	ND		0.050	0.012	ug/L		11/10/20 08:39	11/12/20 10:25	1
4,4'-DDT	ND		0.050	0.011	ug/L		11/10/20 08:39	11/12/20 10:25	1
Aldrin	ND		0.050	0.0081	ug/L		11/10/20 08:39	11/12/20 10:25	1
alpha-BHC	ND		0.050	0.0077	ug/L		11/10/20 08:39	11/12/20 10:25	1
cis-Chlordane	ND		0.050	0.015	ug/L		11/10/20 08:39	11/12/20 10:25	1
beta-BHC	ND		0.050	0.025	ug/L		11/10/20 08:39	11/12/20 10:25	1
delta-BHC	ND		0.050	0.010	ug/L		11/10/20 08:39	11/12/20 10:25	1
Dieldrin	ND		0.050	0.0098	ug/L		11/10/20 08:39	11/12/20 10:25	1
Endosulfan I	ND		0.050	0.011	ug/L		11/10/20 08:39	11/12/20 10:25	1
Endosulfan II	ND		0.050	0.012	ug/L		11/10/20 08:39	11/12/20 10:25	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		11/10/20 08:39	11/12/20 10:25	1
Endrin	ND		0.050	0.014	ug/L		11/10/20 08:39	11/12/20 10:25	1
Endrin aldehyde	ND		0.050	0.016	ug/L		11/10/20 08:39	11/12/20 10:25	1
Endrin ketone	ND		0.050	0.012	ug/L		11/10/20 08:39	11/12/20 10:25	1
gamma-BHC (Lindane)	**0.016**	**J B**	0.050	0.0080	ug/L		11/10/20 08:39	11/12/20 10:25	1
trans-Chlordane	ND		0.050	0.011	ug/L		11/10/20 08:39	11/12/20 10:25	1
Heptachlor	ND		0.050	0.0085	ug/L		11/10/20 08:39	11/12/20 10:25	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		11/10/20 08:39	11/12/20 10:25	1
Methoxychlor	ND		0.050	0.014	ug/L		11/10/20 08:39	11/12/20 10:25	1
Toxaphene	ND		0.50	0.12	ug/L		11/10/20 08:39	11/12/20 10:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	50		20 - 120	11/10/20 08:39	11/12/20 10:25	1
DCB Decachlorobiphenyl	50		20 - 120	11/10/20 08:39	11/12/20 10:25	1
Tetrachloro-m-xylene	96		44 - 120	11/10/20 08:39	11/12/20 10:25	1
Tetrachloro-m-xylene	67		44 - 120	11/10/20 08:39	11/12/20 10:25	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		11/11/20 09:34	11/13/20 07:12	1
PCB-1221	ND		0.50	0.18	ug/L		11/11/20 09:34	11/13/20 07:12	1
PCB-1232	ND		0.50	0.18	ug/L		11/11/20 09:34	11/13/20 07:12	1
PCB-1242	ND		0.50	0.18	ug/L		11/11/20 09:34	11/13/20 07:12	1
PCB-1248	ND		0.50	0.18	ug/L		11/11/20 09:34	11/13/20 07:12	1
PCB-1254	ND		0.50	0.25	ug/L		11/11/20 09:34	11/13/20 07:12	1
PCB-1260	ND		0.50	0.25	ug/L		11/11/20 09:34	11/13/20 07:12	1
PCB-1262	ND		0.50	0.25	ug/L		11/11/20 09:34	11/13/20 07:12	1
PCB-1268	ND		0.50	0.25	ug/L		11/11/20 09:34	11/13/20 07:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	97		39 - 121	11/11/20 09:34	11/13/20 07:12	1

Client: New York State D.E.C.
Job ID: 480-177853-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: MW-103
Lab Sample ID: 480-177853-3
Date Collected: 11/05/20 14:05
Matrix: Water
Date Received: 11/06/20 11:30

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*111*		*39 - 121*	*11/11/20 09:34*	*11/13/20 07:12*	*1*
DCB Decachlorobiphenyl (Surr)	*55*		*19 - 120*	*11/11/20 09:34*	*11/13/20 07:12*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*19 - 120*	*11/11/20 09:34*	*11/13/20 07:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.21**		0.20	0.060	mg/L		11/11/20 12:42	11/13/20 18:53	1
Antimony	ND		0.020	0.0068	mg/L		11/11/20 12:42	11/13/20 18:53	1
Arsenic	ND		0.015	0.0056	mg/L		11/11/20 12:42	11/13/20 18:53	1
Barium	**0.053**	**^**	0.0020	0.00070	mg/L		11/11/20 12:42	11/13/20 18:53	1
Beryllium	ND		0.0020	0.00030	mg/L		11/11/20 12:42	11/13/20 18:53	1
Cadmium	ND		0.0020	0.00050	mg/L		11/11/20 12:42	11/13/20 18:53	1
Calcium	**102**		0.50	0.10	mg/L		11/11/20 12:42	11/13/20 18:53	1
Chromium	ND		0.0040	0.0010	mg/L		11/11/20 12:42	11/13/20 18:53	1
Cobalt	ND		0.0040	0.00063	mg/L		11/11/20 12:42	11/13/20 18:53	1
Copper	**0.0022**	**J**	0.010	0.0016	mg/L		11/11/20 12:42	11/13/20 18:53	1
Iron	**2.0**		0.050	0.019	mg/L		11/11/20 12:42	11/13/20 18:53	1
Lead	**0.0070**	**J**	0.010	0.0030	mg/L		11/11/20 12:42	11/13/20 18:53	1
Magnesium	**32.5**		0.20	0.043	mg/L		11/11/20 12:42	11/13/20 18:53	1
Manganese	**0.89**		0.0030	0.00040	mg/L		11/11/20 12:42	11/13/20 18:53	1
Nickel	ND		0.010	0.0013	mg/L		11/11/20 12:42	11/13/20 18:53	1
Potassium	**9.2**		0.50	0.10	mg/L		11/11/20 12:42	11/13/20 18:53	1
Selenium	ND		0.025	0.0087	mg/L		11/11/20 12:42	11/13/20 18:53	1
Silver	ND		0.0060	0.0017	mg/L		11/11/20 12:42	11/13/20 18:53	1
Sodium	**50.9**		1.0	0.32	mg/L		11/11/20 12:42	11/13/20 18:53	1
Thallium	ND		0.020	0.010	mg/L		11/11/20 12:42	11/13/20 18:53	1
Vanadium	ND		0.0050	0.0015	mg/L		11/11/20 12:42	11/13/20 18:53	1
Zinc	**0.0051**	**J**	0.010	0.0015	mg/L		11/11/20 12:42	11/13/20 18:53	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		11/16/20 13:25	11/16/20 16:52	1

Client: New York State D.E.C.
Job ID: 480-177853-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: MW-106
Lab Sample ID: 480-177853-4
Date Collected: 11/05/20 15:15
Matrix: Water
Date Received: 11/06/20 11:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			11/11/20 14:37	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			11/11/20 14:37	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			11/11/20 14:37	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			11/11/20 14:37	20
1,1-Dichloroethane	ND		20	7.6	ug/L			11/11/20 14:37	20
1,1-Dichloroethene	ND		20	5.8	ug/L			11/11/20 14:37	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			11/11/20 14:37	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			11/11/20 14:37	20
1,2-Dichlorobenzene	ND		20	16	ug/L			11/11/20 14:37	20
1,2-Dichloroethane	ND		20	4.2	ug/L			11/11/20 14:37	20
1,2-Dichloropropane	ND		20	14	ug/L			11/11/20 14:37	20
1,3-Dichlorobenzene	ND		20	16	ug/L			11/11/20 14:37	20
1,4-Dichlorobenzene	ND		20	17	ug/L			11/11/20 14:37	20
2-Butanone (MEK)	ND		200	26	ug/L			11/11/20 14:37	20
2-Hexanone	ND		100	25	ug/L			11/11/20 14:37	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			11/11/20 14:37	20
Acetone	ND		200	60	ug/L			11/11/20 14:37	20
Benzene	ND		20	8.2	ug/L			11/11/20 14:37	20
Bromodichloromethane	ND		20	7.8	ug/L			11/11/20 14:37	20
Bromoform	ND		20	5.2	ug/L			11/11/20 14:37	20
Bromomethane	ND		20	14	ug/L			11/11/20 14:37	20
Carbon disulfide	ND		20	3.8	ug/L			11/11/20 14:37	20
Carbon tetrachloride	ND		20	5.4	ug/L			11/11/20 14:37	20
Chlorobenzene	ND		20	15	ug/L			11/11/20 14:37	20
Dibromochloromethane	ND		20	6.4	ug/L			11/11/20 14:37	20
Chloroethane	ND		20	6.4	ug/L			11/11/20 14:37	20
Chloroform	ND		20	6.8	ug/L			11/11/20 14:37	20
Chloromethane	ND		20	7.0	ug/L			11/11/20 14:37	20
cis-1,2-Dichloroethene	ND		20	16	ug/L			11/11/20 14:37	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			11/11/20 14:37	20
Cyclohexane	ND		20	3.6	ug/L			11/11/20 14:37	20
Dichlorodifluoromethane	ND		20	14	ug/L			11/11/20 14:37	20
Ethylbenzene	**200**		20	15	ug/L			11/11/20 14:37	20
1,2-Dibromoethane	ND		20	15	ug/L			11/11/20 14:37	20
Isopropylbenzene	**16**	**J**	20	16	ug/L			11/11/20 14:37	20
Methyl acetate	ND		50	26	ug/L			11/11/20 14:37	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			11/11/20 14:37	20
Methylcyclohexane	ND		20	3.2	ug/L			11/11/20 14:37	20
Methylene Chloride	ND		20	8.8	ug/L			11/11/20 14:37	20
Styrene	ND		20	15	ug/L			11/11/20 14:37	20
Tetrachloroethene	ND		20	7.2	ug/L			11/11/20 14:37	20
Toluene	ND		20	10	ug/L			11/11/20 14:37	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			11/11/20 14:37	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			11/11/20 14:37	20
Trichloroethene	ND		20	9.2	ug/L			11/11/20 14:37	20
Trichlorofluoromethane	ND		20	18	ug/L			11/11/20 14:37	20
Vinyl chloride	ND		20	18	ug/L			11/11/20 14:37	20
Xylenes, Total	**74**		40	13	ug/L			11/11/20 14:37	20

Client: New York State D.E.C.
Job ID: 480-177853-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: MW-106
Lab Sample ID: 480-177853-4
Date Collected: 11/05/20 15:15
Matrix: Water
Date Received: 11/06/20 11:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		11/11/20 14:37	20
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		11/11/20 14:37	20
4-Bromofluorobenzene (Surr)	107		73 - 120		11/11/20 14:37	20
Dibromofluoromethane (Surr)	109		75 - 123		11/11/20 14:37	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**27**		5.0	0.65	ug/L		11/11/20 15:04	11/15/20 22:28	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		11/11/20 15:04	11/15/20 22:28	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		11/11/20 15:04	11/15/20 22:28	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		11/11/20 15:04	11/15/20 22:28	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		11/11/20 15:04	11/15/20 22:28	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		11/11/20 15:04	11/15/20 22:28	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		11/11/20 15:04	11/15/20 22:28	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		11/11/20 15:04	11/15/20 22:28	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		11/11/20 15:04	11/15/20 22:28	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		11/11/20 15:04	11/15/20 22:28	1
2-Chlorophenol	ND		5.0	0.53	ug/L		11/11/20 15:04	11/15/20 22:28	1
2-Methylphenol	ND		5.0	0.40	ug/L		11/11/20 15:04	11/15/20 22:28	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		11/11/20 15:04	11/15/20 22:28	1
2-Nitroaniline	ND		10	0.42	ug/L		11/11/20 15:04	11/15/20 22:28	1
2-Nitrophenol	ND		5.0	0.48	ug/L		11/11/20 15:04	11/15/20 22:28	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		11/11/20 15:04	11/15/20 22:28	1
3-Nitroaniline	ND		10	0.48	ug/L		11/11/20 15:04	11/15/20 22:28	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		11/11/20 15:04	11/15/20 22:28	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		11/11/20 15:04	11/15/20 22:28	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		11/11/20 15:04	11/15/20 22:28	1
4-Chloroaniline	ND		5.0	0.59	ug/L		11/11/20 15:04	11/15/20 22:28	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		11/11/20 15:04	11/15/20 22:28	1
4-Methylphenol	ND		10	0.36	ug/L		11/11/20 15:04	11/15/20 22:28	1
4-Nitroaniline	ND		10	0.25	ug/L		11/11/20 15:04	11/15/20 22:28	1
4-Nitrophenol	ND		10	1.5	ug/L		11/11/20 15:04	11/15/20 22:28	1
Acenaphthene	**120**	**E**	5.0	0.41	ug/L		11/11/20 15:04	11/15/20 22:28	1
Acenaphthylene	**5.6**		5.0	0.38	ug/L		11/11/20 15:04	11/15/20 22:28	1
Acetophenone	**3.9**	**J**	5.0	0.54	ug/L		11/11/20 15:04	11/15/20 22:28	1
Anthracene	**17**		5.0	0.28	ug/L		11/11/20 15:04	11/15/20 22:28	1
Atrazine	ND		5.0	0.46	ug/L		11/11/20 15:04	11/15/20 22:28	1
Benzaldehyde	ND		5.0	0.27	ug/L		11/11/20 15:04	11/15/20 22:28	1
Benzo[a]anthracene	**0.53**	**J**	5.0	0.36	ug/L		11/11/20 15:04	11/15/20 22:28	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/11/20 15:04	11/15/20 22:28	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/11/20 15:04	11/15/20 22:28	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/11/20 15:04	11/15/20 22:28	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/11/20 15:04	11/15/20 22:28	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		11/11/20 15:04	11/15/20 22:28	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		11/11/20 15:04	11/15/20 22:28	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/11/20 15:04	11/15/20 22:28	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		11/11/20 15:04	11/15/20 22:28	1
Caprolactam	ND		5.0	2.2	ug/L		11/11/20 15:04	11/15/20 22:28	1
Carbazole	**1.8**	**J**	5.0	0.30	ug/L		11/11/20 15:04	11/15/20 22:28	1
Chrysene	**0.46**	**J**	5.0	0.33	ug/L		11/11/20 15:04	11/15/20 22:28	1

Client Sample ID: MW-106
Lab Sample ID: 480-177853-4
Date Collected: 11/05/20 15:15
Matrix: Water
Date Received: 11/06/20 11:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/11/20 15:04	11/15/20 22:28	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		11/11/20 15:04	11/15/20 22:28	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		11/11/20 15:04	11/15/20 22:28	1
Dibenzofuran	**4.5**	**J**	10	0.51	ug/L		11/11/20 15:04	11/15/20 22:28	1
Diethyl phthalate	ND		5.0	0.22	ug/L		11/11/20 15:04	11/15/20 22:28	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		11/11/20 15:04	11/15/20 22:28	1
Fluoranthene	**6.1**		5.0	0.40	ug/L		11/11/20 15:04	11/15/20 22:28	1
Fluorene	**44**		5.0	0.36	ug/L		11/11/20 15:04	11/15/20 22:28	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		11/11/20 15:04	11/15/20 22:28	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		11/11/20 15:04	11/15/20 22:28	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		11/11/20 15:04	11/15/20 22:28	1
Hexachloroethane	ND		5.0	0.59	ug/L		11/11/20 15:04	11/15/20 22:28	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/11/20 15:04	11/15/20 22:28	1
Isophorone	ND		5.0	0.43	ug/L		11/11/20 15:04	11/15/20 22:28	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		11/11/20 15:04	11/15/20 22:28	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		11/11/20 15:04	11/15/20 22:28	1
Naphthalene	ND		5.0	0.76	ug/L		11/11/20 15:04	11/15/20 22:28	1
Nitrobenzene	ND		5.0	0.29	ug/L		11/11/20 15:04	11/15/20 22:28	1
Pentachlorophenol	ND		10	2.2	ug/L		11/11/20 15:04	11/15/20 22:28	1
Phenanthrene	**72**	**E**	5.0	0.44	ug/L		11/11/20 15:04	11/15/20 22:28	1
Phenol	**0.50**	**J**	5.0	0.39	ug/L		11/11/20 15:04	11/15/20 22:28	1
Pyrene	**10**		5.0	0.34	ug/L		11/11/20 15:04	11/15/20 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*101*		*46 - 120*	*11/11/20 15:04*	*11/15/20 22:28*	*1*
Phenol-d5 (Surr)	*54*		*22 - 120*	*11/11/20 15:04*	*11/15/20 22:28*	*1*
p-Terphenyl-d14 (Surr)	*67*		*60 - 148*	*11/11/20 15:04*	*11/15/20 22:28*	*1*
2,4,6-Tribromophenol (Surr)	*117*		*41 - 120*	*11/11/20 15:04*	*11/15/20 22:28*	*1*
2-Fluorobiphenyl (Surr)	*97*		*48 - 120*	*11/11/20 15:04*	*11/15/20 22:28*	*1*
2-Fluorophenol (Surr)	*77*		*35 - 120*	*11/11/20 15:04*	*11/15/20 22:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**26**		25	3.3	ug/L		11/11/20 15:04	11/23/20 23:55	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		11/11/20 15:04	11/23/20 23:55	5
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		11/11/20 15:04	11/23/20 23:55	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		11/11/20 15:04	11/23/20 23:55	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		11/11/20 15:04	11/23/20 23:55	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		11/11/20 15:04	11/23/20 23:55	5
2,4-Dinitrophenol	ND		50	11	ug/L		11/11/20 15:04	11/23/20 23:55	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		11/11/20 15:04	11/23/20 23:55	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		11/11/20 15:04	11/23/20 23:55	5
2-Chloronaphthalene	ND		25	2.3	ug/L		11/11/20 15:04	11/23/20 23:55	5
2-Chlorophenol	ND		25	2.7	ug/L		11/11/20 15:04	11/23/20 23:55	5
2-Methylphenol	ND		25	2.0	ug/L		11/11/20 15:04	11/23/20 23:55	5
2-Methylnaphthalene	ND		25	3.0	ug/L		11/11/20 15:04	11/23/20 23:55	5
2-Nitroaniline	ND		50	2.1	ug/L		11/11/20 15:04	11/23/20 23:55	5
2-Nitrophenol	ND		25	2.4	ug/L		11/11/20 15:04	11/23/20 23:55	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		11/11/20 15:04	11/23/20 23:55	5
3-Nitroaniline	ND		50	2.4	ug/L		11/11/20 15:04	11/23/20 23:55	5

Client: New York State D.E.C.
Job ID: 480-177853-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: MW-106
Lab Sample ID: 480-177853-4
Date Collected: 11/05/20 15:15
Matrix: Water
Date Received: 11/06/20 11:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		11/11/20 15:04	11/23/20 23:55	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		11/11/20 15:04	11/23/20 23:55	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		11/11/20 15:04	11/23/20 23:55	5
4-Chloroaniline	ND		25	3.0	ug/L		11/11/20 15:04	11/23/20 23:55	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		11/11/20 15:04	11/23/20 23:55	5
4-Methylphenol	ND		50	1.8	ug/L		11/11/20 15:04	11/23/20 23:55	5
4-Nitroaniline	ND		50	1.3	ug/L		11/11/20 15:04	11/23/20 23:55	5
4-Nitrophenol	ND		50	7.6	ug/L		11/11/20 15:04	11/23/20 23:55	5
Acenaphthene	**130**		25	2.1	ug/L		11/11/20 15:04	11/23/20 23:55	5
Acenaphthylene	**5.3**	**J**	25	1.9	ug/L		11/11/20 15:04	11/23/20 23:55	5
Acetophenone	**3.7**	**J**	25	2.7	ug/L		11/11/20 15:04	11/23/20 23:55	5
Anthracene	**15**	**J**	25	1.4	ug/L		11/11/20 15:04	11/23/20 23:55	5
Atrazine	ND		25	2.3	ug/L		11/11/20 15:04	11/23/20 23:55	5
Benzaldehyde	ND		25	1.3	ug/L		11/11/20 15:04	11/23/20 23:55	5
Benzo[a]anthracene	ND		25	1.8	ug/L		11/11/20 15:04	11/23/20 23:55	5
Benzo[a]pyrene	ND		25	2.4	ug/L		11/11/20 15:04	11/23/20 23:55	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		11/11/20 15:04	11/23/20 23:55	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		11/11/20 15:04	11/23/20 23:55	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		11/11/20 15:04	11/23/20 23:55	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		11/11/20 15:04	11/23/20 23:55	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		11/11/20 15:04	11/23/20 23:55	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		11/11/20 15:04	11/23/20 23:55	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		11/11/20 15:04	11/23/20 23:55	5
Caprolactam	ND		25	11	ug/L		11/11/20 15:04	11/23/20 23:55	5
Carbazole	**1.6**	**J**	25	1.5	ug/L		11/11/20 15:04	11/23/20 23:55	5
Chrysene	ND		25	1.7	ug/L		11/11/20 15:04	11/23/20 23:55	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		11/11/20 15:04	11/23/20 23:55	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		11/11/20 15:04	11/23/20 23:55	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		11/11/20 15:04	11/23/20 23:55	5
Dibenzofuran	**4.3**	**J**	50	2.6	ug/L		11/11/20 15:04	11/23/20 23:55	5
Diethyl phthalate	ND		25	1.1	ug/L		11/11/20 15:04	11/23/20 23:55	5
Dimethyl phthalate	ND		25	1.8	ug/L		11/11/20 15:04	11/23/20 23:55	5
Fluoranthene	**6.1**	**J**	25	2.0	ug/L		11/11/20 15:04	11/23/20 23:55	5
Fluorene	**45**		25	1.8	ug/L		11/11/20 15:04	11/23/20 23:55	5
Hexachlorobenzene	ND		25	2.6	ug/L		11/11/20 15:04	11/23/20 23:55	5
Hexachlorobutadiene	ND		25	3.4	ug/L		11/11/20 15:04	11/23/20 23:55	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		11/11/20 15:04	11/23/20 23:55	5
Hexachloroethane	ND		25	3.0	ug/L		11/11/20 15:04	11/23/20 23:55	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		11/11/20 15:04	11/23/20 23:55	5
Isophorone	ND		25	2.2	ug/L		11/11/20 15:04	11/23/20 23:55	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		11/11/20 15:04	11/23/20 23:55	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		11/11/20 15:04	11/23/20 23:55	5
Naphthalene	ND		25	3.8	ug/L		11/11/20 15:04	11/23/20 23:55	5
Nitrobenzene	ND		25	1.5	ug/L		11/11/20 15:04	11/23/20 23:55	5
Pentachlorophenol	ND		50	11	ug/L		11/11/20 15:04	11/23/20 23:55	5
Phenanthrene	**71**		25	2.2	ug/L		11/11/20 15:04	11/23/20 23:55	5
Phenol	ND		25	2.0	ug/L		11/11/20 15:04	11/23/20 23:55	5
Pyrene	**9.0**	**J**	25	1.7	ug/L		11/11/20 15:04	11/23/20 23:55	5

Client Sample ID: MW-106
Date Collected: 11/05/20 15:15
Date Received: 11/06/20 11:30

Lab Sample ID: 480-177853-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	87		46 - 120	11/11/20 15:04	11/23/20 23:55	5
Phenol-d5 (Surr)	43		22 - 120	11/11/20 15:04	11/23/20 23:55	5
p-Terphenyl-d14 (Surr)	62		60 - 148	11/11/20 15:04	11/23/20 23:55	5
2,4,6-Tribromophenol (Surr)	122	X	41 - 120	11/11/20 15:04	11/23/20 23:55	5
2-Fluorobiphenyl (Surr)	99		48 - 120	11/11/20 15:04	11/23/20 23:55	5
2-Fluorophenol (Surr)	61		35 - 120	11/11/20 15:04	11/23/20 23:55	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		11/10/20 08:39	11/11/20 16:01	1
4,4'-DDE	ND		0.050	0.012	ug/L		11/10/20 08:39	11/11/20 16:01	1
4,4'-DDT	**0.085**	**B**	0.050	0.011	ug/L		11/10/20 08:39	11/11/20 16:01	1
Aldrin	ND		0.050	0.0081	ug/L		11/10/20 08:39	11/11/20 16:01	1
alpha-BHC	ND		0.050	0.0077	ug/L		11/10/20 08:39	11/11/20 16:01	1
cis-Chlordane	ND		0.050	0.015	ug/L		11/10/20 08:39	11/11/20 16:01	1
beta-BHC	ND		0.050	0.025	ug/L		11/10/20 08:39	11/11/20 16:01	1
delta-BHC	**0.088**		0.050	0.010	ug/L		11/10/20 08:39	11/11/20 16:01	1
Dieldrin	ND		0.050	0.0098	ug/L		11/10/20 08:39	11/11/20 16:01	1
Endosulfan I	ND		0.050	0.011	ug/L		11/10/20 08:39	11/11/20 16:01	1
Endosulfan II	ND		0.050	0.012	ug/L		11/10/20 08:39	11/11/20 16:01	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		11/10/20 08:39	11/11/20 16:01	1
Endrin	ND		0.050	0.014	ug/L		11/10/20 08:39	11/11/20 16:01	1
Endrin aldehyde	**0.051**	**B**	0.050	0.016	ug/L		11/10/20 08:39	11/11/20 16:01	1
Endrin ketone	**0.020**	**J**	0.050	0.012	ug/L		11/10/20 08:39	11/11/20 16:01	1
gamma-BHC (Lindane)	**0.11**	**B**	0.050	0.0080	ug/L		11/10/20 08:39	11/11/20 16:01	1
trans-Chlordane	ND		0.050	0.011	ug/L		11/10/20 08:39	11/11/20 16:01	1
Heptachlor	**0.10**		0.050	0.0085	ug/L		11/10/20 08:39	11/11/20 16:01	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		11/10/20 08:39	11/11/20 16:01	1
Methoxychlor	ND		0.050	0.014	ug/L		11/10/20 08:39	11/11/20 16:01	1
Toxaphene	ND		0.50	0.12	ug/L		11/10/20 08:39	11/11/20 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	42		20 - 120	11/10/20 08:39	11/11/20 16:01	1
DCB Decachlorobiphenyl	37		20 - 120	11/10/20 08:39	11/11/20 16:01	1
Tetrachloro-m-xylene	116		44 - 120	11/10/20 08:39	11/11/20 16:01	1
Tetrachloro-m-xylene	81		44 - 120	11/10/20 08:39	11/11/20 16:01	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52	0.18	ug/L		11/11/20 09:34	11/13/20 07:28	1
PCB-1221	ND		0.52	0.18	ug/L		11/11/20 09:34	11/13/20 07:28	1
PCB-1232	ND		0.52	0.18	ug/L		11/11/20 09:34	11/13/20 07:28	1
PCB-1242	ND		0.52	0.18	ug/L		11/11/20 09:34	11/13/20 07:28	1
PCB-1248	ND		0.52	0.18	ug/L		11/11/20 09:34	11/13/20 07:28	1
PCB-1254	ND		0.52	0.26	ug/L		11/11/20 09:34	11/13/20 07:28	1
PCB-1260	ND		0.52	0.26	ug/L		11/11/20 09:34	11/13/20 07:28	1
PCB-1262	ND		0.52	0.26	ug/L		11/11/20 09:34	11/13/20 07:28	1
PCB-1268	ND		0.52	0.26	ug/L		11/11/20 09:34	11/13/20 07:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	99		39 - 121	11/11/20 09:34	11/13/20 07:28	1

Client: New York State D.E.C.
Project/Site: 31 Tonawanda St. - OffSite C915299A

Job ID: 480-177853-1

Client Sample ID: MW-106
Date Collected: 11/05/20 15:15
Date Received: 11/06/20 11:30

Lab Sample ID: 480-177853-4
Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	114		39 - 121	11/11/20 09:34	11/13/20 07:28	1
DCB Decachlorobiphenyl (Surr)	50		19 - 120	11/11/20 09:34	11/13/20 07:28	1
DCB Decachlorobiphenyl (Surr)	58		19 - 120	11/11/20 09:34	11/13/20 07:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.28**		0.20	0.060	mg/L		11/11/20 12:42	11/13/20 19:11	1
Antimony	ND		0.020	0.0068	mg/L		11/11/20 12:42	11/13/20 19:11	1
Arsenic	ND		0.015	0.0056	mg/L		11/11/20 12:42	11/13/20 19:11	1
Barium	**0.27**	^	0.0020	0.00070	mg/L		11/11/20 12:42	11/13/20 19:11	1
Beryllium	ND		0.0020	0.00030	mg/L		11/11/20 12:42	11/13/20 19:11	1
Cadmium	ND		0.0020	0.00050	mg/L		11/11/20 12:42	11/13/20 19:11	1
Calcium	**209**		0.50	0.10	mg/L		11/11/20 12:42	11/13/20 19:11	1
Chromium	**0.0011**	J	0.0040	0.0010	mg/L		11/11/20 12:42	11/13/20 19:11	1
Cobalt	ND		0.0040	0.00063	mg/L		11/11/20 12:42	11/13/20 19:11	1
Copper	**0.0061**	J	0.010	0.0016	mg/L		11/11/20 12:42	11/13/20 19:11	1
Iron	**7.5**		0.050	0.019	mg/L		11/11/20 12:42	11/13/20 19:11	1
Lead	**0.012**		0.010	0.0030	mg/L		11/11/20 12:42	11/13/20 19:11	1
Magnesium	**57.5**		0.20	0.043	mg/L		11/11/20 12:42	11/13/20 19:11	1
Manganese	**2.0**		0.0030	0.00040	mg/L		11/11/20 12:42	11/13/20 19:11	1
Nickel	ND		0.010	0.0013	mg/L		11/11/20 12:42	11/13/20 19:11	1
Potassium	**10**		0.50	0.10	mg/L		11/11/20 12:42	11/13/20 19:11	1
Selenium	ND		0.025	0.0087	mg/L		11/11/20 12:42	11/13/20 19:11	1
Silver	ND		0.0060	0.0017	mg/L		11/11/20 12:42	11/13/20 19:11	1
Sodium	**79.6**		1.0	0.32	mg/L		11/11/20 12:42	11/13/20 19:11	1
Thallium	ND		0.020	0.010	mg/L		11/11/20 12:42	11/13/20 19:11	1
Vanadium	ND		0.0050	0.0015	mg/L		11/11/20 12:42	11/13/20 19:11	1
Zinc	**0.025**		0.010	0.0015	mg/L		11/11/20 12:42	11/13/20 19:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		11/16/20 13:25	11/16/20 16:54	1

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Peter Zaffram	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-152810-29904.1
Client Contact: Mr. Glenn May	Phone: (716) 553-5129	E-Mail: Orlette.Johnson@Eurofinset.com		Page: Page 1 of 1
Company: New York State D.E.C.				Job #:
Address: 270 Michigan Avenue	Due Date Requested:			
City: Buffalo	TAT Requested (days):			
State, Zip: NY, 14203				
Phone:	PO #: CallOut ID: 137113			
Email: glenn.may@dec.ny.gov	WO #:			
Project Name: 31 Tonawanda St. - OffSite C915299A	Project #: 48020532			
Site: GES JOB# C90186-02-210	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - TCL SVOA - OLM04.2	8260C - TCL list OLM04.2	8082A - TCL PCBs - SOM01.0	8081B - TCL Pesticides - OLM04.2	6010C, 7470A	8270D_SIM_M6_ID - 1,4-dioxane	PEC_IDA - PFAS, Standard List (24 Analytes)	Specific Gravity	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	N	N	D	N	N			
MW-8R	11/5/20	0925	G	Water			X	X	X	X	X					Wrong Date might Be on Sample
MW-100	11/5/20	1135	G	Water			X	X	X	X	X					"
MW-103	11/5/20	1405	G	Water			X	X	X	X	X					"
MW-106	11/5/20	1515	G	Water			X	X	X	X	X					"
				Water												
MW-100 DNAPL (JAR1)	11/5/20	1200	G	Water			X	X	X	X	X			X		Product Samples / May Be HAZ. Please Run as one Sample 2 Jars were Taken for Volume. Jar 2 has more Sediment. Thanks
MW-100 DNAPL (JAR2)	11/5/20	1200	G	Water												
				Water												
				W												
				W												
				W												

480-177853 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

samples are retained longer than 1 month)
☐ Disposal by Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 11/5/20 1745	Company	Received by:	Date/Time: 11/6/20 10:a	Company TAN
Relinquished by:	Date/Time: 11/6/20 11:30	Company DAB	Received by:	Date/Time: 11/6/20 1130	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.9# 1 ICE

SEDIMENT

1992 NYSDEC
PHASE II INVESTIGATION REPORT

DATA SUMMARY FORM: V O L A T I L E S 1

Site Name: Fedder's Auto Components SOIL SAMPLES (ug/Kg)

Case #: 9002-359 Sampling Date(s): _____

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

	Sample No.	SB-4B		SB-4C		SB-4D		SB-4DDL		SED-1		SED-2		SED-3		VBLKS1		VBLKS2	
	Dilution Factor	1.0		1.0		1.0		2.4		1.0		1.0		1.0		1.0		1.0	
	% Moisture	10		11		11		11		58		54		31		—		—	
	Location																		
CRQL	COMPOUND																		
10	Chloromethane																		
10	Bromomethane																		
10	Vinyl Chloride																		
10	Chloroethane																		
5	Methylene Chloride	4	B	25	B	4	B	24	B	18	B	14	B	14	B	4	J	11	
10	Acetone	18	B	28	B	12	B	48	B	74	B	35	B	37	B	6	J	11	
5	Carbon Disulfide																		
5	1,1-Dichloroethene																		
5	1,1-Dichloroethane																		
5	Total-1,2 Dichloroethene	10		40		120		71						13					
5	Chloroform																		
5	1,2 Dichloroethane																		
10	2 Butanone																		
5	1,1,1-Trichloroethane																		
5	Carbon Tetrachloride																		
10	Vinyl Acetate																		
5	Bromodichloromethane																		

CRQL = Contract Required Detection Limit

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

DATA SUMMARY FORM: V O L A T I L E S 2

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SB-4B		SB-4C		SB-4D		SB-4DDL		SED-1		SED-2		SED-3		VBLKS1		VBLKS2	
	Sample No.	SB-4B		SB-4C		SB-4D		SB-4DDL		SED-1		SED-2		SED-3		VBLKS1		VBLKS2	
	Dilution Factor	1.0		1.0		1.0		2.4		1.0		1.0		1.0		1.0		1.0	
	% Moisture	10		11		11		11		58		54		31		—		—	
	Location																		
5	1,2-Dichloropropane																		
5	Cis-1,3-Dichloropropene																		
5	Trichloroethene	81		220		590	J	460						17					
5	Dibromochloromethane																		
5	1,1,2-Trichloroethane					2	J												
5	Benzene																		
5	Trans-1,3-Dichloropropene																		
5	Bromoform																		
10	4-Methyl-2-pentanone																		
10	2-Hexanone																		
5	Tetrachloroethene													85					
5	1,1,2,2-Tetrachloroethane																		
5	Toluene																		
5	Chlorobenzene																		
5	Ethylbenzene																		
5	Styrene																		
5	Total Xylenes																		

CRQL = Contract Required Quantitation Limit

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recycled paper
ecology and environment

DATA SUMMARY FORM: B N A S 1

Site Name: Fedders Auto Components SOIL SAMPLES (ug/Kg)

Case #: 9002-359 Sampling Date(s): _____

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SB-3C		SB-3D		SB-4A		SB-4B		SB-4C		SB-4D		SED-1		SED-2		SED-3	
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		10.0		5.0		1.0	
	% Moisture	16		15		14		10		11		11		58		54		31	
	Location																		
330	Phenol																		
330	bis(2-Chloroethyl)ether																		
330	2-Chlorophenol																		
330	1,3-Dichlorobenzene																		
330	1,4-Dichlorobenzene																		
330	Benzyl Alcohol																		
330	1,2 Dichlorobenzene																		
330	2-Methylphenol																		
330	bis(2-Chloroisopropyl)ether																		
330	4-Methylphenol																		
330	N-Nitroso di-n propylamine																		
330	Hexachloroethane																		
330	Nitrobenzene																		
330	Isophorone																		
330	2-Nitrophenol																		
330	2,4 Dimethylphenol																		
1600	Benzoic Acid																		
330	bis(2-Chloroethoxy)methane																		
330	2,4 Dichlorophenol																		
330	1,2,4-Trichlorobenzene																		
330	Naphthalene					160	J							4400	J			51	J
330	4-Chloroaniline																		

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

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ecology and environment

DATA SUMMARY FORM: B N A S 2

Site Name: Fedders Auto Component

Case #: 9002-359 Sampling Date(s): _____

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SB-3C		SB-3D		SB-4A		SB-4B		SB-4C		SB-4D		SED-1		SED-2		SED-3	
	Sample No.																		
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		10.0		5.0		1.0	
	% Moisture	16		15		14		10		11		11		58		54		31	
	Location																		
330	Hexachlorobutadiene																		
330	4-Chloro-3-methylphenol																		
330	2-Methylnaphthalene					250	J							830	J				
330	Hexachlorocyclopentadiene																		
330	2,4,6-Trichlorophenol																		
1600	2,4,5-Trichlorophenol																		
330	2-Chloronaphthalene																		
1600	2-Nitroaniline																		
330	Dimethylphthalate																		
330	Acenaphthylene													220	J				
330	2,6-Dinitrotoluene																		
1600	3-Nitroaniline																		
330	Acenaphthene					120	J							4000	J			78	J
1600	2,4-Dinitrophenol																		
1600	4-Nitrophenol																		
330	Dibenzofuran					130	J							2500	J	100	J		
330	2,4-Dinitrotoluene																		
330	Diethylphthalate					210	J	220	J										
330	4-Chlorophenyl-phenylether																		
330	Fluorene					120	J							4700	J	170	J	83	J
1600	4-Nitroaniline																		
1600	4,6-Dinitro-2-methylphenol																		

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

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DATA SUMMARY FORM: B N A S 3

Site Name: Fedders Cuyo Component SOIL SAMPLES (ug/Kg)

Case #: 9002-359 Sampling Date(s): _____

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SB-3C		SB-3D		SB-4A		SB-4B		SB-4C		SB-4D		SED-1		SED-2		SED-3	
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		10.0		5.0		1.0	
	% Moisture	16		15		14		10		11		11		58		34		31	
	Location																		
330	N-Nitrosodiphenylamine																		
330	4-Bromophenyl phenylether																		
330	Hexachlorobenzene																		
1600	Pentachlorophenol																		
330	Phenanthrene					1300								50000		1700	J	690	
330	Anthracene					250	J							11000		380	J	140	J
330	Di-n-butylphthalate					48	J					93	J	1600	B	1640	B	68	B
330	Fluoranthene					1400								52000		2100	J	980	
330	Pyrene					1400								70000		1900	J	1200	
330	Butylbenzylphthalate																		
1600	3,3 Dichlorobenzidine																		
330	Benzo(a)anthracene					770								34000		1300	J	580	
330	Chrysene					860								34000		1400	J	620	
330	bis(2-Ethylhexyl)phthalate	260	B	160	B	130	B	100	B	73	B	85	B	4900	B	1800	B	940	B
330	Di-n-octylphthalate																		
330	Benzo(b)fluoranthene					1100								27000		1400	J	750	
330	Benzo(k)fluoranthene					470								20000		730	J	500	
330	Benzo(a)pyrene					840								29000		1600	J	740	
330	Indeno(1,2,3-cd)pyrene					1650								19000		1200	J		
330	Dibenz(a,h)anthracene					150	J							4800	J	260	J	83	J
330	Benzo(g,h,i)perylene					360								16000		1500	J	510	

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

recycled paper
ecology and environment

DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Feddes Auto Components SOIL SAMPLES (ug/Kg)

Case #: 9002-359 Sampling Date(s): _____

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

recycled paper

CRQL	COMPOUND	Sample No.	SB-3C		SB-3D		SB-4A		SB-4B		SB-4C		SB-4D		SED-1		SED-2		SED-3	
		Dilution Factor	1.0		1.0		4.0		1.0		1.0		1.0		10.0		2.0		1.0	
		% Moisture	16		15		14		10		11		11		58		54		31	
		Location																		
8	alpha-BHC																			
8	beta-BHC																			
8	delta-BHC																			
8	Gamma-BHC (Lindane)																			
8	Heptachlor																			
8	Aldrin																			
8	Heptachlor Epoxide																			
8	Endosulfan I																			
16	Dieldrin																			
16	4,4'-DDE																			
16	Endrin																			
16	Endosulfan II																			
16	4,4'-DDD																			
16	Endosulfan Sulfate																			
16	4,4'-DDT																			
80	Methoxychlor																			
16	Endrin ketone																			
80	Alpha-Chlordane																			
80	Gamma-Chlordane																			
160	Toxaphene																			
80	Aroclor-1016																			
80	Aroclor-1221																			
80	Aroclor-1232																			
80	Aroclor-1242																			
80	Aroclor-1248																			
160	Aroclor-1254														3400	J			200	J
160	Aroclor-1260																4600	J		

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date: _____

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((1 - % moisture/100)

CRQL	COMPOUND																			
	Sample No.	SB-3A		SED-1																
	Dilution Factor	2.0		10.0																
	% Moisture	10		58																
	Location																			
	CAS# 90120 Naphthalene, 1-methyl	440	J																	
	CAS# 132650 Dibenzothiophene			2800	J															
	CAS# 86748 9H-Carbazole			3700	J															

CRQL = Contract Required Quantitation Limit

recycled paper
ecology and environment

DATA SUMMARY FORM: I N O R G A N I C S

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

SOIL SAMPLES (mg/Kg)

*Due to dilution, sample quantitation limit is affected. See dilution table for specifics.

CRDL	ANALYTE	SB-3D		SB-4A		SB-4B		SB-4C		SB-4D		SED-1		SED-2		SED-3	
	Sample No.	SB-3D		SB-4A		SB-4B		SB-4C		SB-4D		SED-1		SED-2		SED-3	
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	% Solids	85.0		85.9		90.5		88.9		89.0		41.7		43.8		69.2	
	Location																
40	Aluminum	16100		6680		14000		8730		9350		10800		6500		1480	
12	Antimony		UL		UL		UL		UL		UL		UL		UL		UL
2	Arsenic	[2.1]	L	15.8	L	7.8	L	4.4	L	3.4	L	11.0	L	5.9	L	[2.7]	L
40	Barium	103		185		102		70.5		95		238		98.0		[23.1]	
1	Beryllium																
1	Cadmium	3.1		5.7		3.5		2.2		2.7		10.6		4.5		4.5	
1000	Calcium	2010		17300		16800		64300		57300		94300		136000		9470	
2	Chromium	21.6	L	20.0	L	18.8	L	13.6	L	15.4	L	76.7	L	33.2	L	16.8	L
10	Cobalt	[10.9]		[6.0]		11.9		[7.5]		[8.6]		[8.0]					
5	Copper	17.2		227		16.8		14.1		29.1		390		192		362	
20	Iron	22700		27600		23700		17100		18000		25800		17100		13300	
1	*Lead	11.6		391		14.2		10.9		31.8		615		502		9890	
1000	Magnesium	5820		4970		11900		20900		17500		12300		12400		1840	
3	Manganese	139		1720		376		366		445		536		367		109	
0.2	Mercury			0.14								1.82		0.37			
8	Nickel	22.8		23.5		24.1		19.1		20.0		42.9		23.1		26.2	
1000	Potassium	1210		[877]		1280		1380		1400		[1280]		[1090]		[161]	
1	Selenium		UL		UL		UL		UL		UL	[1.2]	L	[0.50]	L		UL
2	Silver																
1000	Sodium	[317]		[379]		[443]		[286]		[275]		[1340]		[390]			
2	Thallium																
10	Vanadium	26.5	L	21.7	L	24.1	L	17.6	L	17.8	L	32.4	L	[21.3]	L	[6.0]	L
4	Zinc	68.8		718		72.5		56.9		80.5		918		824		856	
2	Cyanide																

CRDL = Contract Required Detection Limit

*Action Level Exists

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GLOSSARY OF DATA QUALIFIERS

CODES RELATING TO IDENTIFICATION

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm results.

CODES RELATING TO QUANTITATION

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value expected to be higher.

[]= Inorganic analyte present. As values approach the IDL the quantitation may not be accurate.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

2017 EMPIRE GEOSERVICES SEDIMENT SCREENING ASSESSMENT REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
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Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-64858-1
Client Project/Site: Scajaquada Creek #1406307 PIN 06511

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, New York 14203

Attn: Mr. Thomas Johnson

Joseph V. Giacomazza

Authorized for release by:
4/18/2017 5:34:03 PM
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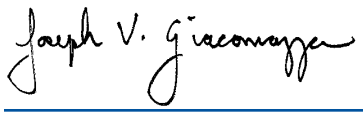
Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Management Assistant II
4/18/2017 5:34:03 PM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 180-64858-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-64858-1

Receipt
The samples were received on 4/4/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.2º C and 4.4º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-207446 was outside the method criteria for the following analyte(s): Trichlorofluoromethane recovered high. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-207450 and analytical batch 180-207446 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-207483 was outside the method criteria for the following analyte: 2-Hexanone is >20% high. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-207565 was outside the method criteria for the following analyte(s): Chloroethane recovered high. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following sample was diluted due to the abundance of target analytes : BLK-01-01-12 (180-64858-1[MS]) and BLK-01-01-12 (180-64858-1[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: SCJ-09-01-17 (180-64858-10). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix: BLK-01-01-12 (180-64858-1), BLK-01-02-27 (180-64858-2), FIELD DUPLICATE BLK-01-01-12 (180-64858-3), BLK-02-01-12 (180-64858-4), BLK-02-02-18 (180-64858-5), SCJ-11-01-09 (180-64858-8), SCJ-10-01-09 (180-64858-9), BLK-03-01-12 (180-64858-11), BLK-03-02-17 (180-64858-12), BLK-04-01-12 (180-64858-13) and BLK-04-02-18 (180-64858-14). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The following sample was diluted due to an abundance of target analytes: SCJ-11-01-09 (180-64858-8). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) associated with batch 207437 recovered above the upper control limit for 1016. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8082A: Surrogate recovery for the following samples was outside control limits: BLK-01-01-12 (180-64858-1), BLK-01-01-12 (180-64858-1[MS]) and BLK-01-01-12 (180-64858-1[MSD]). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed. MS and MSD confirm Surrogate interference.

Job ID: 180-64858-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

Method(s) 8082A: The following samples was diluted due to the abundance of target analytes: FIELD DUPLICATE BLK-01-01-12 (180-64858-3), BLK-02-02-18 (180-64858-5), BLK-03-01-12 (180-64858-11), BLK-04-01-12 (180-64858-13) and BLK-04-02-18 (180-64858-14)

Method(s) 8082A: The continuing calibration verification (CCV) associated with batch 207553 recovered above the upper control limit for 1254. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. Some results were reported from the passing column for 1254.

Method(s) Lloyd Kahn: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for 207701 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) Lloyd Kahn: Please note that the reporting limit for Lloyd Kahn TOC analysis is a nominal value and does not reflect adjustments in sample mass processed on an individual basis

BLK-01-01-12 (180-64858-1), BLK-01-02-27 (180-64858-2), FIELD DUPLICATE BLK-01-01-12 (180-64858-3), BLK-02-01-12 (180-64858-4), BLK-02-02-18 (180-64858-5), SCJ-11-01-09 (180-64858-8), SCJ-09-01-17 (180-64858-10), BLK-03-01-12 (180-64858-11), BLK-03-02-17 (180-64858-12), BLK-04-01-12 (180-64858-13) and BLK-04-02-18 (180-64858-14)

Method(s) 8081B_LL: The following samples was diluted due to the nature of the sample matrix: BLK-01-01-12 (180-64858-1), BLK-01-01-12 (180-64858-1[MS]), BLK-01-01-12 (180-64858-1[MSD]), BLK-01-02-27 (180-64858-2), FIELD DUPLICATE BLK-01-01-12 (180-64858-3), BLK-02-01-12 (180-64858-4), BLK-02-02-18 (180-64858-5), SCJ-12-01-02 (180-64858-7), SCJ-11-01-09 (180-64858-8), SCJ-10-01-09 (180-64858-9), SCJ-09-01-17 (180-64858-10), BLK-03-01-12 (180-64858-11), BLK-03-02-17 (180-64858-12), BLK-04-01-12 (180-64858-13) and BLK-04-02-18 (180-64858-14) at 50x. Elevated reporting limits (RLs) are provided.

Method(s) 8081B_LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with 207433 were outside control limits: BLK-01-01-12 (180-64858-1[MS]) and BLK-01-01-12 (180-64858-1[MSD]). The associated laboratory control sample (LCS) recovery met acceptance criteria. Sample was diluted 50X due to high concentrations of PCB's present.

Method(s) Lloyd Kahn: Sample did not meet the 50% RPD requirement due to sample matrix. Sample was reanalyzed with similar results. Thus, both sets of data will be reported with narration.

SCJ-10-01-09 (180-64858-9)

Method(s) Lloyd Kahn: Please note that the reporting limit for Lloyd Kahn TOC analysis is a nominal value and does not reflect adjustments in sample mass processed on an individual basis

SCJ-10-01-09 (180-64858-9)

Method(s) Lloyd Kahn: All samples are analyzed in duplicate, with the average result reported. For sample 180-64858-b-9, the %RPD of the individual results exceeded 50%. The sample was reanalyzed, and the %RPD failure repeated due to the non-homogeneous nature of the sample. Both sets of data were reported. A Dixon test was also done on the samples and has been attached to the data.

SCJ-10-01-09 (180-64858-9)

Method(s) Lloyd Kahn: Please note that the reporting limit for Lloyd Kahn TOC analysis is a nominal value and does not reflect adjustments in sample mass processed on an individual basis

SCJ-10-01-09 (180-64858-9)

Method(s) 1630: The following sample was diluted due to the abundance of non-target analytes: SCJ-10-01-09 (180-64858-9). Elevated reporting limits (RLs) are provided.

Method(s) 1630: The matrix spike (MS) recoveries for preparation batch 240-274806 and analytical batch 240-274912 were outside control

Job ID: 180-64858-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) and second set of MS/MSD recoveries were within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 7471B: Due to the high concentration of <Hg>, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 180-207321 and analytical batch 180-207394 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 7471B: The following samples was diluted to bring the concentration of target analytes within the calibration range: BLK-01-01-12 (180-64858-1), BLK-01-01-12 (180-64858-1[MS]), BLK-01-01-12 (180-64858-1[MSD]), BLK-01-02-27 (180-64858-2), BLK-03-01-12 (180-64858-11), BLK-03-02-17 (180-64858-12) and BLK-04-02-18 (180-64858-14). Elevated reporting limits (RLs) are provided.

Method(s) 6020A: The first continuing calibration verification (CCV1) had potassium greater than the upper control limit. This CCV is linked to all samples in the analytical run. The bracketing CCV of the reported data was all within acceptable limits and is reported as is with this narrative: RS-3 (180-64858-6), (LCS 180-207633/2-A), (MB 180-207633/1-A), (180-64813-F-5-B), (180-64813-A-5-C MS), (180-64813-A-5-D MSD), (180-64813-F-5-B PDS) and (180-64813-F-5-B SD ^)

Method(s) 6020A: The serial dilution performed for the following samples associated with batch 208185 was outside the control limits for magnesium : (180-64813-F-5-B)

Method(s) 6020A: The yttrium reference in the internal standard was turned off due to the added levels of yttrium in the sample which caused the percent recoveries for this reference to exceed the control limits. The analytes that reference yttrium are now referenced by rhodium. BLK-01-01-12 (180-64858-1), BLK-01-01-12 (180-64858-1[MS]), BLK-01-01-12 (180-64858-1[MSD]), BLK-04-01-12 (180-64858-13), BLK-04-02-18 (180-64858-14), (180-64858-B-1-G PDS) and (180-64858-B-1-G SD ^)

Method(s) 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 207813 were outside the control limits for silver, cadmium, magnesium, nickel, antimony, selenium and thallium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. A post digestion spike (PDS) was analyzed as per 6020A and it passed for all analytes except selenium.

Method(s) 6020A: The serial dilution performed for the following sample associated with batch 208465 was outside the control limits for potassium : BLK-01-01-12 (180-64858-1)

Method(s) 6020, 6020A: The closing low level check standard recovery associated with 208195 is outside the acceptance criteria for the following analyte lead: the samples associated with this CCVL are 10X the results and are accepted and report as is .

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Geotechnical
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 180-207409.

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with <207465>.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Client Sample ID: SCJ-12-01-02
Date Collected: 03/30/17 10:15
Date Received: 04/04/17 09:15

Lab Sample ID: 180-64858-7
Matrix: Sediment
Percent Solids: 75.6

Method: 8081B_LL - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.7	0.28	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
alpha-BHC	ND		2.7	0.80	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
beta-BHC	ND		2.7	0.61	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
delta-BHC	**2.4**	**J**	2.7	0.97	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
gamma-BHC (Lindane)	ND		2.7	0.56	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
alpha-Chlordane	ND		2.7	0.44	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
oxy-Chlordane	ND		2.7	0.36	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
gamma-Chlordane	ND		2.7	0.21	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
4,4'-DDD	**1.6**	**J p**	2.7	0.28	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
4,4'-DDE	**1.4**	**J p**	2.7	0.86	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
4,4'-DDT	ND		2.7	0.28	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
Dieldrin	**0.84**	**J p**	2.7	0.26	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
2,4'-DDD	ND		2.7	0.45	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
Endosulfan I	ND		2.7	0.17	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
Endosulfan II	ND		2.7	0.83	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
2,4'-DDE	ND		2.7	0.53	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
Endosulfan sulfate	ND		2.7	0.35	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
Endrin	ND		2.7	0.79	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
2,4'-DDT	ND		2.7	1.0	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
Endrin aldehyde	ND		2.7	0.80	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50

Client Sample ID: SCJ-12-01-02

Date Collected: 03/30/17 10:15
Date Received: 04/04/17 09:15

Lab Sample ID: 180-64858-7

Matrix: Sediment
Percent Solids: 75.6

Method: 8081B_LL - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	ND		2.7	0.90	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
Heptachlor	ND		2.7	0.23	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
Heptachlor epoxide	**0.72**	**J p**	2.7	0.32	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
Methoxychlor	ND		2.7	0.79	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
Toxaphene	ND		110	89	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
Mirex	ND		2.7	0.33	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
cis-Nonachlor	ND		2.7	0.50	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50
trans-Nonachlor	ND		2.7	0.47	ug/Kg	☼	04/06/17 03:43	04/08/17 17:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X D*	*32 - 114*	*04/06/17 03:43*	*04/08/17 17:35*	*50*
Tetrachloro-m-xylene	*0*	*X D*	*32 - 114*	*04/06/17 03:43*	*04/08/17 17:35*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*26 - 143*	*04/06/17 03:43*	*04/08/17 17:35*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*26 - 143*	*04/06/17 03:43*	*04/08/17 17:35*	*50*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		5.4	2.9	ug/Kg	☼	04/05/17 03:35	04/06/17 10:39	10
PCB-1221	ND		5.4	2.8	ug/Kg	☼	04/05/17 03:35	04/06/17 10:39	10
PCB-1232	ND		5.4	2.1	ug/Kg	☼	04/05/17 03:35	04/06/17 10:39	10
PCB-1242	ND		5.4	4.3	ug/Kg	☼	04/05/17 03:35	04/06/17 10:39	10
PCB-1248	**180**		5.4	2.6	ug/Kg	☼	04/05/17 03:35	04/06/17 10:39	10
PCB-1254	**100**		5.4	2.4	ug/Kg	☼	04/05/17 03:35	04/06/17 10:39	10
PCB-1260	**62**		5.4	3.6	ug/Kg	☼	04/05/17 03:35	04/06/17 10:39	10
PCB-1262	ND		5.4	3.9	ug/Kg	☼	04/05/17 03:35	04/06/17 10:39	10
PCB-1268	ND		5.4	1.7	ug/Kg	☼	04/05/17 03:35	04/06/17 10:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*381*	*X*	*20 - 150*	*04/05/17 03:35*	*04/06/17 10:39*	*10*
DCB Decachlorobiphenyl (Surr)	*479*	*X*	*20 - 150*	*04/05/17 03:35*	*04/06/17 10:39*	*10*
Tetrachloro-m-xylene (Surr)	*457*	*X*	*20 - 130*	*04/05/17 03:35*	*04/06/17 10:39*	*10*
Tetrachloro-m-xylene (Surr)	*94*		*20 - 130*	*04/05/17 03:35*	*04/06/17 10:39*	*10*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5600**		1.9	1.2	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Antimony	**0.40**		0.13	0.021	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Arsenic	**2.3**		0.063	0.013	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Barium	**46.4**		0.63	0.030	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Beryllium	**0.41**		0.063	0.015	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Cadmium	**0.16**		0.063	0.0067	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Calcium	**90700**		31.6	5.1	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Chromium	**19.4**		0.13	0.052	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Cobalt	**1.8**		0.032	0.0052	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Copper	**21.0**		0.13	0.077	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Iron	**10300**		3.2	2.3	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Lead	**278**	**^**	0.063	0.031	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Magnesium	**9180**		31.6	2.1	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Manganese	**410**		0.32	0.11	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Nickel	**6.0**		0.063	0.019	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1

Client Sample ID: SCJ-12-01-02
Date Collected: 03/30/17 10:15
Date Received: 04/04/17 09:15

Lab Sample ID: 180-64858-7
Matrix: Sediment
Percent Solids: 75.6

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	324		31.6	3.4	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Selenium	0.78		0.32	0.077	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Silver	0.055	J	0.063	0.0085	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Sodium	421		31.6	13.4	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Thallium	0.026	J	0.063	0.0025	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Vanadium	5.2		0.063	0.036	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1
Zinc	68.9		0.32	0.18	mg/Kg	☼	04/07/17 16:30	04/13/17 00:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.022	0.0049	mg/Kg	☼	04/05/17 06:11	04/05/17 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.4		0.1	0.1	%			04/06/17 15:18	1

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: S. Bochenek	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-95666-22797.2
Client Contact: Mr. Thomas Johnson / Dave Steiner (Empire)	Phone:	E-Mail: orlette.johnson@testamericainc.com		Page: Page 2 of 11
Company: New York State D.E.C. / Empire GeoServices				Job #: BEY-17-001
Address: 270 Michigan Avenue	Due Date Requested: Per NYSDEC Contract			
City: Buffalo	TAT Requested (days):			
State, Zip: NY, 14203				
Phone: 716-851-7050(Tel) 716-851-7226(Fax)	PO #: Callout# 123088 PIN 06511			
Email: thomas.johnson@dec.ny.gov	WO #:			
Project Name: NYSDEC-Oil Sheen in Creek # 1406307	Project #: 48010650			
Site: Dave Steiner	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - Di Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

716-649-8110
dsteiner@sybempre.net

Creosote odors

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8081B_LL, 8082A_LL	6020A, 7470A	8260C_LL - TCL 4.2 GC/MS Volatiles List	8270D_LL - TCL 4.2 Semivolatiles	2540G, 6020A, 7471B, 8081B_LL, 8082A_LL, 8270D_LL, Lloyd_Kahn_Mod, Moisture	1630 - Methyl Mercury (GC)	D422 - Grain Size (Sieve and Hydrometer)	8260C - VOCs TCL 4.2	1613B, 1668A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	N	N	N	N	N	N		
SCJ-12-01-02	3/30	1015	C	Sediment			See Notes, 1 Container →										As Sample Quantity permits PCBs, Metal, Hg, Pests
SCJ-11-01-09		1120	C	Sediment			X				X	X	X				No VOCs Per NYSDEC
SCJ-10-01-09		1245	C	Sediment			X				X	X	X	X	X		
SCJ-09-01-17		1340	C	Sediment			X				X	X	X	X			
BLK-03-01-12		1405	C	Sediment			X				X	X	X	X			
BLK-03-02-17		1420	C	Sediment			X				X	X	X	X			
BLK-04-01-12		1450	C	Sediment			X				X	X	X	X			Grain Size & Source Container
BLK-04-02-18	3/30	1500	C	Sediment			X				X	X	X	X			Grain Size & Source Container
				Sediment													
				Sediment													
				Sediment													

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 4-3-17 / 1330	Company: EGS	Received by:		Date/Time: 4-3-17 / 1330	Company: WSC	
Relinquished by:	Date/Time: 4-3-17 / 1402	Company: WSC	Received by:		Date/Time: 4/3/17 1402	Company: DABUS	
Relinquished by:	Date/Time: 4/3/17 1700	Company: DABUS	Received by:		Date/Time: 4-4-17 915	Company: FAP	
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				

2017 USACE BUFFALO
SEDIMENT SAMPLING EVENT

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

RTI Laboratories

Niagara River AOC, Buffalo, NY

WO F00234

SGS Job Number: JC74102



Sampling Date: 09/25/17

Report to:

RTI Laboratories
31628 Glendale Street
Livonia, MI 48150
Mathew.R.Masset@USACE.Army.mil

ATTN: Mathew R. Masset

Total number of pages in report: **1071**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A. Paul Ioannidis
General Manager

Client Service contact: Kristin Degraw 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

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Please share your ideas about how we can serve you better at:
EHS.US.CustomerCare@sgs.com

SGS North America Inc.

Sample Summary
(continued)

RTI Laboratories

Job No: JC74102

Niagara River AOC, Buffalo, NY
Project No: WO F00234

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC74102-14	09/25/17	10:10		09/14/18	SO	Sediment	SJ-5-D
JC74102-14A	09/25/17	10:10		09/14/18	SO	Sediment	SJ-5-D
JC74102-15	09/25/17	09:55		09/14/18	SO	Sediment	SJ-5-E
JC74102-15A	09/25/17	09:55		09/14/18	SO	Sediment	SJ-5-E

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: RTI Laboratories **Job No** JC74102

Site: Niagara River AOC, Buffalo, NY **Report Date** 10/29/2018 11:52:30 A

On 09/14/2018, 15 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 0.1 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC74102 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

Metals Analysis By Method SW846 6010C

Matrix: SO **Batch ID:** L:MP12975

- The data for SW846 6010C meets quality control requirements.
- JC74102-5A for Copper: Analysis performed at SGS Scott, LA.
- JC74102-14A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-7A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-12A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-11A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-10A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-9A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-8A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-6A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-5A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-4A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-13A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-2A for Copper: Analysis performed at SGS Scott, LA.
- JC74102-5A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-14A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-5A for Cadmium: Analysis performed at SGS Scott, LA.
- JC74102-4A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-4A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-12A for Cadmium: Analysis performed at SGS Scott, LA.
- JC74102-4A for Cadmium: Analysis performed at SGS Scott, LA.
- JC74102-6A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-3A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-3A for Copper: Analysis performed at SGS Scott, LA.
- JC74102-3A for Cadmium: Analysis performed at SGS Scott, LA.
- JC74102-2A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-2A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-5A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-14A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-7A for Cadmium: Analysis performed at SGS Scott, LA.

Metals Analysis By Method SW846 6010C

Matrix: SO **Batch ID:** L:MP12975

- JC74102-7A for Copper: Analysis performed at SGS Scott, LA.
- JC74102-7A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-7A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-1A for Cadmium: Analysis performed at SGS Scott, LA.
- JC74102-1A for Copper: Analysis performed at SGS Scott, LA.
- JC74102-2A for Cadmium: Analysis performed at SGS Scott, LA.
- JC74102-14A for Cadmium: Analysis performed at SGS Scott, LA.
- JC74102-1A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-15A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-15A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-15A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-15A for Cadmium: Analysis performed at SGS Scott, LA.
- JC74102-11A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-1A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-14A for Copper: Analysis performed at SGS Scott, LA.
- JC74102-2A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-13A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-13A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-13A for Copper: Analysis performed at SGS Scott, LA.
- JC74102-13A for Cadmium: Analysis performed at SGS Scott, LA.
- JC74102-12A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-12A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-12A for Copper: Analysis performed at SGS Scott, LA.
- JC74102-3A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-15A for Copper: Analysis performed at SGS Scott, LA.
- JC74102-8A for Cadmium: Analysis performed at SGS Scott, LA.
- JC74102-3A for Lead: Analysis performed at SGS Scott, LA.
- JC74102-9A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-6A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-8A for Copper: Analysis performed at SGS Scott, LA.
- JC74102-8A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-8A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-9A for Cadmium: Analysis performed at SGS Scott, LA.
- JC74102-6A for Copper: Analysis performed at SGS Scott, LA.
- JC74102-9A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-10A for Cadmium: Analysis performed at SGS Scott, LA.
- JC74102-10A for Copper: Analysis performed at SGS Scott, LA.
- JC74102-10A for Nickel: Analysis performed at SGS Scott, LA.
- JC74102-10A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-11A for Cadmium: Analysis performed at SGS Scott, LA.
- JC74102-11A for Copper: Analysis performed at SGS Scott, LA.

Metals Analysis By Method SW846 6010C

Matrix:	SO	Batch ID:	L:MP12975

- JC74102-4A for Copper: Analysis performed at SGS Scott, LA.
- JC74102-1A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-11A for Zinc: Analysis performed at SGS Scott, LA.
- JC74102-9A for Copper: Analysis performed at SGS Scott, LA.
- JC74102-6A for Cadmium: Analysis performed at SGS Scott, LA.

Metals Analysis By Method SW846 6010D

Matrix:	SO	Batch ID:	MP9225

- All method blanks for this batch meet method specific criteria.
- Sample(s) JC74078-19MS, JC74078-19MSD, JC74078-19PS, JC74078-19SDL were used as the QC samples for metals.
- The following samples were digested outside of holding time for method SW846 6010D: JC74102-1, JC74102-10, JC74102-11, JC74102-12, JC74102-13, JC74102-14, JC74102-15, JC74102-2, JC74102-3, JC74102-4, JC74102-5, JC74102-6, JC74102-7, JC74102-8, JC74102-9
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Antimony, Potassium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Aluminum, Calcium, Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Cadmium, Sodium are outside control limits. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JC74102-14 for Silver: Elevated detection limit due to dilution required for high interfering element.
- MP9225-SD1 for Iron: Serial dilution indicates possible matrix interference.
- JC74102-2 for Silver: Elevated detection limit due to dilution required for high interfering element.
- MP9225-SD1 for Magnesium: Serial dilution indicates possible matrix interference.
- MP9225-SD1 for Calcium: Serial dilution indicates possible matrix interference.
- MP9225-SD1 for Aluminum: Serial dilution indicates possible matrix interference.

Metals Analysis By Method SW846 6020B

Matrix:	SO	Batch ID:	MP9225A

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC74078-19MS, JC74078-19MSD, JC74078-19PS, JC74078-19SDL were used as the QC samples for metals.

Metals Analysis By Method SW846 7471B

Matrix: SO **Batch ID:** L:MP12977

- The data for SW846 7471B meets quality control requirements.
- JC74102-9A for Mercury: Analysis performed at SGS Scott, LA.
- JC74102-7A for Mercury: Analysis performed at SGS Scott, LA.
- JC74102-2A for Mercury: Analysis performed at SGS Scott, LA.
- JC74102-3A for Mercury: Analysis performed at SGS Scott, LA.
- JC74102-10A for Mercury: Analysis performed at SGS Scott, LA.
- JC74102-12A for Mercury: Analysis performed at SGS Scott, LA.
- JC74102-15A for Mercury: Analysis performed at SGS Scott, LA.
- JC74102-1A for Mercury: Analysis performed at SGS Scott, LA.
- JC74102-13A for Mercury: Analysis performed at SGS Scott, LA.
- JC74102-4A for Mercury: Analysis performed at SGS Scott, LA.
- JC74102-11A for Mercury: Analysis performed at SGS Scott, LA.
- JC74102-8A for Mercury: Analysis performed at SGS Scott, LA.
- JC74102-6A for Mercury: Analysis performed at SGS Scott, LA.
- JC74102-5A for Mercury: Analysis performed at SGS Scott, LA.
- JC74102-14A for Mercury: Analysis performed at SGS Scott, LA.

Matrix: SO **Batch ID:** MP9230

- All method blanks for this batch meet method specific criteria.
- Sample(s) JC74102-4MS, JC74102-4MSD were used as the QC samples for metals.
- The following samples were digested outside of holding time for method SW846 7471B: JC74102-1, JC74102-10, JC74102-11, JC74102-12, JC74102-13, JC74102-14, JC74102-15, JC74102-2, JC74102-3, JC74102-4, JC74102-5, JC74102-6, JC74102-7, JC74102-8, JC74102-9

General Chemistry By Method EPA 821 DRAFT

Matrix: SO **Batch ID:** R173644

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** R173645

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** R173646

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** R173647

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** R173648

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** R173649

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** R173650

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** R173651

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** R173652

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** R173653

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** R173654

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** R173655

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** R173656

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** R173657

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** R173658

- The data for EPA 821 DRAFT meets quality control requirements.

Matrix: SO **Batch ID:** T:GP49802

- The data for EPA 821 DRAFT meets quality control requirements.
- JC74102-3A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.
- JC74102-11A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.
- JC74102-13A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.
- JC74102-14A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.
- JC74102-15A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.
- JC74102-4A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.
- JC74102-10A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.
- JC74102-8A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.

General Chemistry By Method EPA 821 DRAFT

Matrix: SO **Batch ID:** T:GP49802

- JC74102-12A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.
- JC74102-1A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.
- JC74102-9A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.
- JC74102-5A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.
- JC74102-6A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.
- JC74102-7A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.
- JC74102-2A for Acid Volatile Sulfide: Sample received outside the holding time. Analysis performed at SGS Houston, TX.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO **Batch ID:** GN85883

- Sample(s) JC74102-1DUP were used as the QC samples for Solids, Percent.

General Chemistry By Method SW846 9060A

Matrix: SO **Batch ID:** GP16328

- All method blanks for this batch meet method specific criteria.
- Sample(s) JC74102-1DUP, JC74102-1MS were used as the QC samples for Total Organic Carbon.
- The following samples were prepared outside of holding time for method SW846 9060A: JC74102-1, JC74102-10, JC74102-11, JC74102-12, JC74102-13, JC74102-14, JC74102-15, JC74102-2, JC74102-3, JC74102-4, JC74102-5, JC74102-6, JC74102-7, JC74102-8, JC74102-9 Sample received outside the holding time.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	SGS Dayton, NJ	**Job No**	JC74102
Site:	RTILMIL: Niagara River AOC, Buffalo, NY	**Report Date**	10/9/2018 5:05:17 PM

15 Samples were collected on 09/25/2017 and received intact at SGS North America Inc (SGS) Houston on 09/28/2018 and properly preserved in 1 cooler at 2.3 Deg C. The samples received an Accutest job number of JC74102. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

General Chemistry By Method EPA 821 DRAFT

Matrix: SO **Batch ID:** GP49802

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples JC74102-3AMSD, JC74102-3AMS were used as the QC samples for Acid Volatile Sulfide.
- The following samples were prepared outside of holding time for method EPA 821 DRAFT: JC74102-10A, JC74102-11A, JC74102-12A, JC74102-13A, JC74102-14A, JC74102-15A, JC74102-1A, JC74102-2A, JC74102-3A, JC74102-4A, JC74102-5A, JC74102-6A, JC74102-7A, JC74102-8A, JC74102-9A Sample received outside the holding time.
- Matrix Spike Recovery(s) are outside control limits. Outside control limits due to matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Acid Volatile Sulfide are outside control limits. Probable cause due to matrix interference.

SGS certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS and as stated on the COC. SGS certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Quality Manual except as noted above. This report is to be used in its entirety. SGS is not responsible for any assumptions of data quality if partial data packages are used.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ **Job No** JC74102

Site: RTILMIL: Niagara River AOC, Buffalo, NY **Report Date** 10/23/2018 3:29:10 P

15 samples, 0 trip blanks and 0 field blanks were collected on 09/25/2017 and were received intact at SGS North America Inc.-Scott (SGS) on 09/14/2018, properly preserved and cool at 2.1 Deg C. These samples received an SGS job number of JC74102. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP12975

- Sample(s) JC74102-7AMS, JC74102-7AMSD, JC74102-7ASDL were used as the QC samples for metals.
- Matrix Spike Duplicate Recovery(s) for Zinc are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- Matrix Spike Recovery(s) for Zinc are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- Matrix Spike Recovery(s) for Zinc are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Cadmium, Copper, Nickel, Zinc are outside control limits for sample MP12975-SDL. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7471B

Matrix: SO **Batch ID:** MP12977

- Sample(s) JC74102-7AMS, JC74102-7AMSD, JC74102-7ASDL were used as the QC samples for metals.

SGS North America Inc.-Scott (SGS) certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS and as stated on the COC. SGS certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the SGS Quality Manual except as noted above. This report is to be used in its entirety. SGS is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SJ-5-E
Lab Sample ID: JC74102-15
Matrix: SO - Sediment
Project: Niagara River AOC, Buffalo, NY

Date Sampled: 09/25/17
Date Received: 09/14/18
Percent Solids: 30.5

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	21400	160	33	26	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Antimony	1.6 U	6.6	1.6	1.3	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Arsenic	10.0	3.3	1.6	0.63	mg/kg	5	09/20/18	09/21/18	ZC	SW846 6020B [3]	SW846 3050B [6]
Barium	168	66	33	6.3	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Beryllium	0.98	0.66	0.33	0.26	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Cadmium	3.0	1.6	0.66	0.23	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Calcium	92800	8200	820	720	mg/kg	5	09/20/18	09/25/18	GT	SW846 6010D [4]	SW846 3050B [5]
Chromium	68.3	3.3	1.6	1.2	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Cobalt	12.5 J	16	3.3	0.92	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Copper	161	8.2	3.3	2.8	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Iron	37300	820	490	310	mg/kg	5	09/20/18	09/25/18	GT	SW846 6010D [4]	SW846 3050B [5]
Lead	256	6.6	1.6	1.3	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Magnesium	16900	1600	160	45	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Manganese	500	4.9	3.3	1.3	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Mercury	0.32	0.066	0.050	0.029	mg/kg	1	09/19/18	09/20/18	EAL	SW846 7471B [1]	SW846 7471B [7]
Nickel	40.9	13	1.3	1.1	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Potassium	4560	3300	160	100	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Selenium	2.6 U	6.6	2.6	2.1	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Silver	1.3 U	1.6	1.3	0.56	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Sodium	591 J	3300	330	260	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Thallium	0.41 J	1.6	0.82	0.16	mg/kg	5	09/20/18	09/21/18	ZC	SW846 6020B [3]	SW846 3050B [6]
Vanadium	46.1	16	1.3	0.62	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]
Zinc	785	16	13	7.5	mg/kg	1	09/20/18	09/21/18	GT	SW846 6010D [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA45290
(2) Instrument QC Batch: MA45305
(3) Instrument QC Batch: MA45309
(4) Instrument QC Batch: MA45313
(5) Prep QC Batch: MP9225
(6) Prep QC Batch: MP9225A
(7) Prep QC Batch: MP9230

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection B = Analyte found in associated blank J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SJ-5-E		
Lab Sample ID:	JC74102-15	**Date Sampled:**	09/25/17
Matrix:	SO - Sediment	**Date Received:**	09/14/18
		Percent Solids:	30.5
Project:	Niagara River AOC, Buffalo, NY		

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By	Method
Solids, Percent	30.5				%	1	09/19/18 15:00	SF	SM2540 G 18TH ED MOD
Total Organic Carbon [a]	68300	3300	3300	2800	mg/kg	1	10/02/18 19:23	CD	SW846 9060A

(a) Sample received outside the holding time.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection B = Analyte found in associated blank J = Indicates a result > = DL (MDL) but < LOQ

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: JC74102

Client / Reporting Information

Company Name:
Street Address:
City State Zip
Project Contact: E-mail: michelle.jenkins@sgs.com
Phone #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: Niagara River AOC, Buffalo, NY
Street:
City State
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip
Attention:

Requested Analysis

REVISED 10/2

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	AVS	LAB USE ONLY
13A	SJ-5-C		9/25/17	10:15:00 AM		SO										X	
14A	SJ-5-D		9/25/17	10:10:00 AM		SO										X	
15A	SJ-5-E		9/25/17	9:55:00 AM		SO										X	

Turnaround Time (Business days)

Approved By (SGS PM); / Date:

- [ ] Standard 10 Business Days
- [ ] 6 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [X] Other Due 10/5/2018

Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other FULT1

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

AVS to be done then sent to ALLA for metals analysis

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1		1	2		2
3		3	4		4
5		5			

Custody Seal #: [ ] Intact [ ] Not intact | Preserved where applicable: [ ] Absent [ ] Therm. ID: | On Ice: [ ] | Cooler Temp. °C

JC74102 (003).xls
Rev. Date: 4/10/18

13.1
13

JC74102: Chain of Custody
Page 2 of 7

SURFACE WATER

1992 NYSDEC
PHASE II INVESTIGATION REPORT

DATA SUMMARY FORM: V O L A T I L E S 1

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

WATER SAMPLES
(ug/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	GW-1	GW-1RE	GW-2	GW-3	GW-3RE	SW-1	SW-2	SW-3	VBLKW1
	Sample No.									
	Dilution Factor	1.0	1.0	5.0	1.0	1.0	1.0	1.0	1.0	1.0
	Location		more acceptable		more acceptable					
10	Chloromethane		UJ		UJ					
10	Bromomethane		↓		↓					
10	*Vinyl Chloride									
10	Chloroethane									
5	*Methylene Chloride	8 B	6 B	32 B	7 B	6 B	6 B	14 B	4 B	9
10	Acetone		UJ	29 B	UJ	3 B	13 B	10 B	6 B	
5	Carbon Disulfide		↓		↓					
5	*1,1-Dichloroethene									
5	1,1-Dichloroethane		6 J	53	7 J	6				
5	*Total-1,2-Dichloroethene		8 J	340	7 J	8				
5	Chloroform		UJ		UJ					
5	*1,2-Dichloroethane		↓		↓					
10	*2-Butanone									
5	*1,1,1-Trichloroethane		24 J	370	30 J	26				
5	*Carbon Tetrachloride		UJ		UJ					
10	Vinyl Acetate		↓		↓					
5	Bromodichloromethane									

CRDL = Contract Required Detection Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

NOTE: The Glossary of Data Qualifiers for the Data Summary Forms appears on page D-41.

DATA SUMMARY FORM: V O L A T I L E S 2

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

WATER SAMPLES (ug/L)

To calculate sample quantitation limit: (CRQL * Dilution Factor)

	Sample No.	GW-1	GW-1RE	GW-2	GW-3	GW-3RE	SW-1	SW-2	SW-3	VBLKW1
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Location		more acceptable		more acceptable					
CRQL	COMPOUND									
5	*1,2-Dichloropropane		UJ		UJ					
5	Cis-1,3 Dichloropropene		↓		↓					
5	Trichloroethene	11	19 J	640	23 J	20				
5	Dibromochloromethane		UJ		UJ					
5	1,1,2 Trichloroethane		↓		↓					
5	*Benzene									
5	Trans-1,3 Dichloropropene									
5	Bromoform									
10	4-Methyl 2 pentanone									
10	2 Hexanone									
5	*Tetrachloroethene									
5	1,1,2,2 Tetrachloroethane									
5	*Toluene									
5	*Chlorobenzene									
5	*Ethylbenzene									
5	*Styrene									
5	*Total Xylenes		↓		↓					

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

recycled paper

ecology and environment

DATA SUMMARY FORM: B N A S 1

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

WATER SAMPLES
(ug/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

	Sample No.	DW092490	GW-1	GW-2	GW-3	SW-1	SW-2	SW-3	SBLKW01	SBLKW02
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Location									
CRQL	COMPOUND									
10	Phenol				16					
10	bis(2-Chloroethyl)ether									
10	2 Chlorophenol									
10	*1,3-Dichlorobenzene									
10	*1,4-Dichlorobenzene									
10	Benzyl Alcohol									
10	1,2 Dichlorobenzene				2 J					
10	2 Methylphenol									
10	bis(2-Chloroisopropyl)ether									
10	4 Methylphenol									
10	N-Nitroso-di-n-propylamine									
10	Hexachloroethane									
10	Nitrobenzene									
10	Isophorone									
10	2 Nitrophenol									
10	2,4 Dimethylphenol									
50	Benzoic Acid									
10	bis(2-Chloroethoxy)methane									
10	2,4 Dichlorophenol									
10	1,2,4-Trichlorobenzene				5 J					
10	Naphthalene									
10	4-Chloroaniline									

CRDL = Contract Required Detection Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

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DATA SUMMARY FORM: B N A S 2

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

WATER SAMPLES
(ug/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	Sample No.	DW092490		GW-1		GW-2		GW-3		SW-1		SW-2		SW-3		SBLKW1		SBLKW2	
		Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
		Location																		
10	Hexachlorobutadiene																			
10	4-Chloro-3-methylphenol																			
10	2-Methylnaphthalene																			
10	Hexachlorocyclopentadiene																			
10	2,4,6-Trichlorophenol																			
50	2,4,5-Trichlorophenol																			
10	2-Chloronaphthalene																			
50	2-Nitroaniline																			
10	Dimethylphthalate																			
10	Acenaphthylene																			
10	2,6 Dinitrotoluene																			
50	3-Nitroaniline																			
10	Acenaphthene																			
50	2,4-Dinitrophenol																			
50	4-Nitrophenol																			
10	Dibenzofuran																			
10	2,4-Dinitrotoluene																			
10	Diethylphthalate						2	J												
10	4-Chlorophenyl-phenylether																			
10	Fluorene																			
50	4-Nitroaniline																			
50	4,6-Dinitro-2-methylphenol																			

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

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recycled paper
ecology and environment

DATA SUMMARY FORM: B N A S 3

Site Name: Feddeus Auto Component

Case #: 9002-359 Sampling Date(s): _____

WATER SAMPLES
(ug/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

	Sample No.	DW12490		GW-1		GW-2		GW-3		SW-1		SW-2		SW-3		SBLKW1		SBLKW2	
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	Location																		
CRDL	COMPOUND																		
10	N Nitrosodiphenylamine																		
10	4 Bromophenyl phenylether																		
10	*Hexachlorobenzene							2	J										
50	*Pentachlorophenol																		
10	Phenanthrene			2	J			1	J										
10	Anthracene																		
10	Di-n-butylphthalate			5	J	4	J	2	J	2	J	7	J	4	J				
10	Fluoranthene			3	J	1	J	1	J										
10	Pyrene			3	J	1	J	2	J										
10	Butylbenzylphthalate																		
20	3,3 Dichlorobenzidine																		
10	Benzo(a)anthracene																		
10	Chrysene																		
10	bis(2 Ethylhexyl)phthalate	2	B	16	B	14	B	18	B	5	B	12	B	12	B	3	J	9	J
10	Di-n-octylphthalate																		
10	Benzo(b)fluoranthene			2	J														
10	Benzo(k)fluoranthene																		
10	Benzo(a)pyrene			1	J														
10	Indeno(1,2,3-cd)pyrene																		
10	Dibenz(a,h)anthracene																		
10	Benzo(g,h,i)perylene																		

CRDL = Contract Required Detection Limit

*Action Level Exists

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DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Fedders Auto Components

Case #: 9002-359 Sampling Date(s): _____

WATER SAMPLES (ug/L)

To calculate sample quantitation limit: (CRQL * Dilution Factor)

CRQL	COMPOUND	Sample No.	DW09249O	GW-1	GW-2	GW-3	SW-1	SW-2	SW-3	PBLKW1	PBLKW4
		Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		Location									
0.05	Alpha-BHC										
0.05	Beta-BHC										
0.05	Delta-BHC				0.073						
0.05	*Gamma-BHC (Lindane)										
0.05	*Heptachlor										
0.05	Aldrin										
0.05	Heptachlor Epoxide										
0.05	Endosulfan I										
0.10	Dieldrin										
0.10	4,4'-DDE										
0.10	*Endrin										
0.10	Endosulfan II										
0.10	4,4'-DDD										
0.10	Endosulfan Sulfate										
0.10	4,4'-DDT										
0.5	*Methoxychlor										
0.10	Endrin ketone										
0.5	*Alpha-Chlordane										
0.5	*Gamma-Chlordane										
1.0	*Toxaphene										
0.5	*Aroclor-1016										
0.5	*Aroclor-1221										
0.5	*Aroclor-1232										
0.5	*Aroclor-1242										
0.5	*Aroclor-1248										
1.0	*Aroclor-1254										
1.0	*Aroclor-1260										

CRDL = Contract Required Detection Limit

*Action Level Exists

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DATA SUMMARY FORM: I N O R G A N I C S

Site Name: Fedders Auto Component

Case #: 9002-359 Sampling Date(s): _____

WATER SAMPLES
(ug/L)

+Due to dilution, sample quantitation limit is affected. See dilution table for specifics.

CRDL	ANALYTE	Sample No.		DW09		GW-1		GW-2		GW-3		SW-1		SW-2		SW-3									
		Dilution Factor		1.0		1.0		1.0		1.0		1.0		1.0		1.0									
		Location																							
200	Aluminum			1300		845		243	B	227	B	352	B	509	B	296	B								
60	Antimony																								
10	*Arsenic			[2.7]		[2.4]																			
200	Barium			[37.5]		[60.4]		[44.5]		[56.9]		[63.7]		[64.3]		[60.1]									
5	Beryllium																								
5	*Cadmium			6.4																					
5000	Calcium			31200		81700		76800		129000		173000		169000		176000									
10	*Chromium																								
50	Cobalt																								
25	Copper			35.5																					
100	Iron			21800		2130		489		638		784		1130		582									
3	*Lead			61		4.5		3.2		3.1		7.5		15.0		10.6									
5000	Magnesium			7760		53100		11700		35900		23800		23300		23200									
15	Manganese			202		299		123		132		56.0		62.5		54.2									
0.2	Mercury																								
40	*Nickel																								
5000	Potassium			[1100]		11600		[3650]		9950		[3680]		[3730]		[3850]									
5	Selenium		UL		UL		UL		UL		UL		UL		UL		UL								
10	Silver																								
5000	Sodium			8860		516000		47200		173000		58100		57400		56000									
10	Thallium																								
50	Vanadium																								
20	Zinc			66.2		447		94.4		71.3		54.6		45.9		35.1									
10	*Cyanide					27900																			

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

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GLOSSARY OF DATA QUALIFIERS

CODES RELATING TO IDENTIFICATION

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm results.

CODES RELATING TO QUANTITATION

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value expected to be higher.

[]= Inorganic analyte present. As values approach the IDL the quantitation may not be accurate.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

2020 NYSDEC
REMEDIAL INVESTIGATION REPORT
31 TONAWANDA STREET OFF-SITE

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 2, 2022

Joshua Vaccaro
NYS Division of Environmental Remediation
625 Broadway 12th Floor
Albany, NY 12233-7012

Project Location: NY
Client Job Number:
Project Number: 1406307
Laboratory Work Order Number: 22H1745

Enclosed are results of analyses for samples as received by the laboratory on August 30, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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September 2, 2022

Joshua Vaccaro
NYS Division of Environmental Remediation
625 Broadway 12th Floor
Albany, NY 12233-7012

Project Location: NY
Client Job Number:
Project Number: 1406307
Laboratory Work Order Number: 22H1743

Enclosed are results of analyses for samples as received by the laboratory on August 30, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYS Division of Environmental Remediation
625 Broadway 12th Floor
Albany, NY 12233-7012
ATTN: Joshua Vaccaro

REPORT DATE: 9/2/2022

PURCHASE ORDER NUMBER: 145675

PROJECT NUMBER: 1406307

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22H1743

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
BR-SW-North	22H1743-01	Water		SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8270E	
Inlet-SW-South	22H1743-02	Water		SW-846 8260D	
Inlet-SW-North	22H1743-03	Water		SW-846 8260D	
SC- SW- East	22H1743-04	Water		SW-846 8260D	
Trip Blank	22H1743-05	Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151 samples were derivatized on 08/31/22.

For method 8151 samples analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

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SW-846 6010D

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

22H1743-01[BR-SW-North]

B-07

Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Magnesium
22H1743-01[BR-SW-North]

SW-846 7470A

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

Mercury
22H1743-01[BR-SW-North]

SW-846 8081B

Qualifications:

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

4,4'-DDD
B316189-BS1, B316189-BSD1

SW-846 8260D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Carbon Disulfide
B316233-BS1, B316233-BSD1

Methyl Acetate
B316233-BS1, B316233-BSD1

Vinyl Chloride
B316233-BS1, B316233-BSD1

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V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromochloromethane
B316233-BS1, B316233-BSD1, S076026-CCV1

Bromomethane
B316233-BS1, B316233-BSD1, S076026-CCV1

Carbon Disulfide
B316233-BS1, B316233-BSD1, S076026-CCV1

Chloromethane
B316233-BS1, B316233-BSD1, S076026-CCV1

Hexachlorobutadiene
S076026-CCV1

Methyl Acetate
B316233-BS1, B316233-BSD1, S076026-CCV1

Vinyl Chloride
B316233-BS1, B316233-BSD1, S076026-CCV1

SW-846 8270E

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Caprolactam
22H1743-01[BR-SW-North], B316280-BS1, B316280-BSD1

Hexachlorocyclopentadiene
22H1743-01[BR-SW-North], B316280-BS1, B316280-BSD1

Hexachloroethane
22H1743-01[BR-SW-North], B316280-BS1, B316280-BSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
S076075-CCV1

Hexachlorocyclopentadiene
22H1743-01[BR-SW-North], S076075-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

4-Nitrophenol
S076075-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

4-Nitrophenol
22H1743-01[BR-SW-North]

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The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopyscinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-07	Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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Project Location: NY | Sample Description: | Work Order: 22H1743

Date Received: 8/30/2022

Field Sample #: SC- SW- East | Sampled: 8/29/2022 09:53

Sample ID: 22H1743-04

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Ethyl Acetate	ND	10	2.1	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH

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Project Location: NY | Sample Description: | Work Order: 22H1743

Date Received: 8/30/2022

Field Sample #: SC- SW- East | Sampled: 8/29/2022 09:53

Sample ID: 22H1743-04

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	8/31/22	8/31/22 14:00	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		8/31/22 14:00
Toluene-d8	100	70-130		8/31/22 14:00
4-Bromofluorobenzene	103	70-130		8/31/22 14:00

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY | Sample Description: | Work Order: 22H1743

Date Received: 8/30/2022

Field Sample #: SC- SW- East | Sampled: 8/29/2022 09:53

Sample ID: 22H1743-04

Sample Matrix: Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	8/31/22	8/31/22 14:00	EEH

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Project Location: NY | Sample Description: | Work Order: 22H1743

Date Received: 8/30/2022

Field Sample #: Trip Blank | Sampled: 8/29/2022 00:00

Sample ID: 22H1743-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Chloroform	0.38	2.0	0.17	µg/L	1	J	SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Ethyl Acetate	ND	10	2.1	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH

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Project Location: NY | Sample Description: | Work Order: 22H1743

Date Received: 8/30/2022

Field Sample #: Trip Blank | Sampled: 8/29/2022 00:00

Sample ID: 22H1743-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	8/31/22	8/31/22 12:11	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.3	70-130		8/31/22 12:11
Toluene-d8	102	70-130		8/31/22 12:11
4-Bromofluorobenzene	104	70-130		8/31/22 12:11

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Project Location: NY | Sample Description: | Work Order: 22H1743

Date Received: 8/30/2022

Field Sample #: Trip Blank | Sampled: 8/29/2022 00:00

Sample ID: 22H1743-05

Sample Matrix: Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	8/31/22	8/31/22 12:11	EEH

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Phone: 612-607-6400 2241743
Fax: 612-607-6344

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Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 1

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

Company Name:	NYS DEC
Address:	700 Delaware
Phone:	(716) 541-9657
Project Name:	
Project Location:	Seneca Creek
Project Number:	1406307 order# 2208423
Project Manager:	Josh Vacco
Pace Analytical Quote Name/Number	
Invoice Recipient:	
Sampled By:	JV

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

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: joshua.vacco@dec.ny.gov
Fax To #:

ANALYSIS REQUESTED

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260	8151	1,4-Dioxane - SIM	8082	8270	6010	8260	# of Containers	[2] Preservation Code	[3] Container Code
1	BR-SW-North	8/29	9:00		✓			2	2	2	2	2	1				
2	Inlet-SW-South	8/29	8:40		✓									2			
3	Inlet-SW-North	8/29	8:30		✓									2			
4	SC-SW-East	8/29	9:55		✓									2			
5	Trip Blank	"	"		✓									1			

Comments:

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

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

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

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

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

Relinquished by: (signature)		Date/Time: 8/29 1755
Received by: (signature)		Date/Time: 8/30 5:8
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

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

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

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

Other:
NELAC and AIHA-LAP, LLC Accredited

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYS Division of Environmental Remediation
625 Broadway 12th Floor
Albany, NY 12233-7012
ATTN: Joshua Vaccaro

REPORT DATE: 9/2/2022

PURCHASE ORDER NUMBER: 145675

PROJECT NUMBER: 1406307

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22H1745

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SC-SW-East	22H1745-01	Water		SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8270E	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151 samples were derivatized on 08/31/22.

For method 8151 samples analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

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SW-846 6010D

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

22H1745-01[SC-SW-East]

B-07

Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Magnesium
22H1745-01[SC-SW-East]

SW-846 7470A

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

Mercury
22H1745-01[SC-SW-East]

SW-846 8081B

Qualifications:

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

4,4'-DDD
B316189-BS1, B316189-BSD1

SW-846 8270E

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Caprolactam
22H1745-01[SC-SW-East], B316280-BS1, B316280-BSD1

Hexachlorocyclopentadiene
22H1745-01[SC-SW-East], B316280-BS1, B316280-BSD1

Hexachloroethane
22H1745-01[SC-SW-East], B316280-BS1, B316280-BSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
S076075-CCV1

Hexachlorocyclopentadiene
22H1745-01[SC-SW-East], S076075-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

4-Nitrophenol
S076075-CCV1

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V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

4-Nitrophenol

22H1745-01[SC-SW-East]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopyscinski
Laboratory Director

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-07	Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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Project Location: NY | Sample Description: | Work Order: 22H1745

Date Received: 8/30/2022

Field Sample #: SC-SW-East | Sampled: 8/29/2022 09:55

Sample ID: 22H1745-01

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	20	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Benzaldehyde	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Biphenyl	ND	20	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Caprolactam	ND	9.8	µg/L	1	L-04	SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Acenaphthene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Acenaphthylene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Acetophenone	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Anthracene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Benzo(a)anthracene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Benzo(a)pyrene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Benzo(b)fluoranthene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Benzo(g,h,i)perylene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Benzo(k)fluoranthene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Bis(2-chloroethoxy)methane	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Bis(2-chloroethyl)ether	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Bis(2-chloroisopropyl)ether	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Bis(2-Ethylhexyl)phthalate	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
4-Bromophenylphenylether	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Butylbenzylphthalate	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Carbazole	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
4-Chloroaniline	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
4-Chloro-3-methylphenol	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
2-Chloronaphthalene	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
2-Chlorophenol	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
4-Chlorophenylphenylether	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Chrysene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Dibenz(a,h)anthracene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Dibenzofuran	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Di-n-butylphthalate	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
3,3-Dichlorobenzidine	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
2,4-Dichlorophenol	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Diethylphthalate	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
2,4-Dimethylphenol	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Dimethylphthalate	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
4,6-Dinitro-2-methylphenol	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
2,4-Dinitrophenol	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
2,4-Dinitrotoluene	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
2,6-Dinitrotoluene	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Di-n-octylphthalate	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Fluoranthene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Fluorene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Hexachlorobenzene	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Hexachlorobutadiene	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Hexachlorocyclopentadiene	ND	9.8	µg/L	1	V-05, L-04	SW-846 8270E	8/31/22	9/1/22 13:31	CLA

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY | Sample Description: | Work Order: 22H1745

Date Received: 8/30/2022

Field Sample #: SC-SW-East | Sampled: 8/29/2022 09:55

Sample ID: 22H1745-01

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.8	µg/L	1	L-04	SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Indeno(1,2,3-cd)pyrene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Isophorone	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
2-Methylnaphthalene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
2-Methylphenol	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
3/4-Methylphenol	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Naphthalene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
2-Nitroaniline	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
3-Nitroaniline	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
4-Nitroaniline	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Nitrobenzene	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
2-Nitrophenol	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
4-Nitrophenol	ND	9.8	µg/L	1	V-20	SW-846 8270E	8/31/22	9/1/22 13:31	CLA
N-Nitrosodiphenylamine/Diphenylamine	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
N-Nitrosodi-n-propylamine	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Pentachlorophenol	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Phenanthrene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Phenol	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
Pyrene	ND	4.9	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
1,2,4,5-Tetrachlorobenzene	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
2,4,5-Trichlorophenol	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA
2,4,6-Trichlorophenol	ND	9.8	µg/L	1		SW-846 8270E	8/31/22	9/1/22 13:31	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	30.6	15-110		9/1/22 13:31
Phenol-d6	24.6	15-110		9/1/22 13:31
Nitrobenzene-d5	81.1	30-130		9/1/22 13:31
2-Fluorobiphenyl	69.7	30-130		9/1/22 13:31
2,4,6-Tribromophenol	88.7	15-110		9/1/22 13:31
p-Terphenyl-d14	82.6	30-130		9/1/22 13:31

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Project Location: NY | Sample Description: | Work Order: 22H1745

Date Received: 8/30/2022

Field Sample #: SC-SW-East | Sampled: 8/29/2022 09:55

Sample ID: 22H1745-01

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.087	0.20	0.033	µg/L	1	J	SW-846 8270E	8/30/22	8/31/22 15:40	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	29.3	15-110		8/31/22 15:40

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Project Location: NY | Sample Description: | Work Order: 22H1745

Date Received: 8/30/2022

Field Sample #: SC-SW-East | Sampled: 8/29/2022 09:55

Sample ID: 22H1745-01

Sample Matrix: Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270E	8/31/22	9/1/22 13:31	CLA

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Project Location: NY | Sample Description: | Work Order: 22H1745

Date Received: 8/30/2022

Field Sample #: SC-SW-East | Sampled: 8/29/2022 09:55

Sample ID: 22H1745-01

Sample Matrix: Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	0.029	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
Aldrin [1]	ND	0.049	0.0035	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
alpha-BHC [1]	ND	0.049	0.025	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
beta-BHC [1]	ND	0.049	0.021	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
delta-BHC [1]	ND	0.049	0.029	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
gamma-BHC (Lindane) [1]	ND	0.030	0.0042	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
Chlordane [1]	ND	0.20	0.067	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
4,4'-DDD [2]	ND	0.039	0.0027	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
4,4'-DDE [1]	ND	0.039	0.0042	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
4,4'-DDT [1]	ND	0.039	0.0039	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
Dieldrin [1]	ND	0.0020	0.00077	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
Endosulfan I [1]	ND	0.049	0.024	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
Endosulfan II [1]	ND	0.079	0.015	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
Endosulfan sulfate [1]	ND	0.079	0.014	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
Endrin [1]	ND	0.079	0.015	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
Endrin aldehyde [1]	ND	0.079	0.017	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
Endrin ketone [1]	ND	0.079	0.014	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
Heptachlor [1]	ND	0.049	0.0044	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
Heptachlor epoxide [1]	ND	0.049	0.0032	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
Hexachlorobenzene [1]	ND	0.049	0.025	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
Methoxychlor [1]	ND	0.49	0.052	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG
Toxaphene [1]	ND	0.99	0.31	µg/L	1		SW-846 8081B	8/30/22	9/1/22 0:11	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.5	30-150		9/1/22 0:11
Decachlorobiphenyl [2]	94.6	30-150		9/1/22 0:11
Tetrachloro-m-xylene [1]	62.5	30-150		9/1/22 0:11
Tetrachloro-m-xylene [2]	57.6	30-150		9/1/22 0:11

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Project Location: NY | Sample Description: | Work Order: 22H1745

Date Received: 8/30/2022

Field Sample #: SC-SW-East | Sampled: 8/29/2022 09:55

Sample ID: 22H1745-01

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.052	µg/L	1		SW-846 8082A	8/30/22	8/31/22 17:26	TG
Aroclor-1221 [1]	ND	0.20	0.078	µg/L	1		SW-846 8082A	8/30/22	8/31/22 17:26	TG
Aroclor-1232 [1]	ND	0.20	0.071	µg/L	1		SW-846 8082A	8/30/22	8/31/22 17:26	TG
Aroclor-1242 [1]	ND	0.20	0.075	µg/L	1		SW-846 8082A	8/30/22	8/31/22 17:26	TG
Aroclor-1248 [1]	ND	0.20	0.087	µg/L	1		SW-846 8082A	8/30/22	8/31/22 17:26	TG
Aroclor-1254 [1]	ND	0.20	0.077	µg/L	1		SW-846 8082A	8/30/22	8/31/22 17:26	TG
Aroclor-1260 [1]	ND	0.20	0.061	µg/L	1		SW-846 8082A	8/30/22	8/31/22 17:26	TG
Aroclor-1262 [1]	ND	0.20	0.063	µg/L	1		SW-846 8082A	8/30/22	8/31/22 17:26	TG
Aroclor-1268 [1]	ND	0.20	0.076	µg/L	1		SW-846 8082A	8/30/22	8/31/22 17:26	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		8/31/22 17:26
Decachlorobiphenyl [2]	103	30-150		8/31/22 17:26
Tetrachloro-m-xylene [1]	72.6	30-150		8/31/22 17:26
Tetrachloro-m-xylene [2]	68.0	30-150		8/31/22 17:26

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Project Location: NY | Sample Description: | Work Order: 22H1745

Date Received: 8/30/2022

Field Sample #: SC-SW-East | Sampled: 8/29/2022 09:55

Sample ID: 22H1745-01

Sample Matrix: Water

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	0.51	0.11	µg/L	1		SW-846 8151A	8/30/22	9/1/22 2:10	TG
2,4-DB [1]	ND	0.51	0.17	µg/L	1		SW-846 8151A	8/30/22	9/1/22 2:10	TG
2,4,5-TP (Silvex) [1]	ND	0.051	0.010	µg/L	1		SW-846 8151A	8/30/22	9/1/22 2:10	TG
2,4,5-T [1]	ND	0.10	0.025	µg/L	1		SW-846 8151A	8/30/22	9/1/22 2:10	TG
Dalalpon [1]	ND	1.3	0.17	µg/L	1		SW-846 8151A	8/30/22	9/1/22 2:10	TG
Dicamba [1]	ND	0.051	0.016	µg/L	1		SW-846 8151A	8/30/22	9/1/22 2:10	TG
Dichloroprop [1]	ND	0.51	0.19	µg/L	1		SW-846 8151A	8/30/22	9/1/22 2:10	TG
Dinoseb [1]	ND	0.26	0.048	µg/L	1		SW-846 8151A	8/30/22	9/1/22 2:10	TG
MCPA [1]	ND	51	9.6	µg/L	1		SW-846 8151A	8/30/22	9/1/22 2:10	TG
MCPP [1]	ND	51	10	µg/L	1		SW-846 8151A	8/30/22	9/1/22 2:10	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	73.7	30-150		9/1/22 2:10
2,4-Dichlorophenylacetic acid [2]	78.4	30-150		9/1/22 2:10

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Project Location: NY | Sample Description: | Work Order: 22H1745

Date Received: 8/30/2022

Field Sample #: SC-SW-East | Sampled: 8/29/2022 09:55

Sample ID: 22H1745-01

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.017	0.050	0.015	mg/L	1	J	SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Antimony	0.010	0.050	0.0089	mg/L	1	J	SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Barium	0.043	0.050	0.0056	mg/L	1	J	SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Calcium	160	0.50	0.11	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Copper	0.0056	0.010	0.0036	mg/L	1	J	SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Iron	0.10	0.050	0.019	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Magnesium	18	0.050	0.0095	mg/L	1	B-07	SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Manganese	0.014	0.010	0.0017	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Mercury	ND	0.00010	0.000040	mg/L	1	B	SW-846 7470A	8/31/22	8/31/22 17:29	ATP
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Potassium	3.5	2.0	0.30	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Sodium	98	2.0	0.53	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Vanadium	0.0060	0.010	0.0031	mg/L	1	J	SW-846 6010D	8/30/22	8/31/22 14:00	QNW
Zinc	0.0051	0.010	0.0042	mg/L	1	J	SW-846 6010D	8/30/22	8/31/22 14:00	QNW

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22H1745

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 1

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

Company Name:	NYS DEC
Address:	700 Delaware
Phone:	716-541-9657
Project Name:	
Project Location:	Seneca Creek
Project Number:	1406307 order# 2208423
Project Manager:	Jack Vaccaro
Pace Analytical Quote Name/Number	
Invoice Recipient:	
Sampled By:	JV

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

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

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	# of Containers	[2] Preservation Code	[3] Container Code
1	SCSW-East	8/29	9:55		✓	SW		2	2	2

ANALYSIS REQUESTED

300.0	353.2	14-Diox-SIM	3005A	3510C	6010
2	2	2	2	2	1

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments:

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

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

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

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

Relinquished by: (signature)	Date/Time: 8/29 1755
Received by: (signature)	Date/Time: 8/30 917
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

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

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

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

Other:
NELAC and AIHA-LAP, LLC Accredited

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

NON-AQUEOUS PHASE LIQUID (NAPL)

1994 GEOTRANS
REMEDIAL INVESTIGATION REPORT
IROQUOIS GAS/WESTWOOD
PHARMACEUTICALS SITE

Entered

VOLUME I OF II

DATA EVALUATION SUMMARY REPORT
IROQUOIS GAS/WESTWOOD PHARMACEUTICALS SITE #915141

BUFFALO, NEW YORK

February 1993

Prepared by:
GeoTrans, Inc.
Sterling, Virginia

SAMPLES BY SDG AND MEDIUM

SDG B7:	(aqueous)	B7, MF2, MF5, MF6, TB83
SDG B8:	(NAPL)	B8, MF2
SDG CS1-1:	(aqueous)	EB-71, EB72, TB71, TB72
	(sediment)	CS1-1, CS101, CS111, CS2-1, CS3-1, CS33, CS4-1, CS51, CS61, CD71, CS73, CS81, CS91
SDG EQ4:	(aqueous)	EQ4, TB33
	(soil)	SB012, SB916
SDG MS44:	(aqueous)	TB11, TB12, TB13
	(soil)	MS22, MS44, MS210, MS410, PS24, PS210, SB14, SB34, SB110, SB310, SS26, SS40, SS54, SS210, SS418, SS420, SS510
SDG MS332:	(aqueous)	EQ3, FB1, FB2, TB22
	(soil)	MF10, MF12, MF24, MF26, MF40, MF222, MF226, MS2, MS332, PF20, PF60, PF64, PF428
SDG QC1:	(aqueous)	TB73
	(sediment)	CS112, CS121, CS131, QC1
SDG SS12:	(aqueous)	TB14, TB15, TB21
	(soil)	MS38, MS312, PF10, PF12, PF30, PF322, PS10, PS12, PS110, SS12, SS64, SS70, SS74, SS76, SS84, SS110, SS610
SDG TB44:	(aqueous)	TB44
	(soil)	TP14, TP34, TP35, TP49, TP56
SDG TB101:	(aqueous)	TB101, TB102, XB003, XB006, XB007, XB019, WF001, WF003, WF004, WF005, WF006, WS001, WS002, WS003, WS004, WS005
SDG WS1:	(aqueous)	TB74, TB75, B3, B19, GW1, MF4, SS1, SW1, SW2, SW3, WF1, WF3, WS1, WS2, WS3, WS4, WS5

SDG B8

DATA SUMMARY FORM: V O L A T I L E S 1

Site Name: IROQUOIS/WESTWOOD

NAPL
~~SOIL~~ SAMPLES
(µg/Kg)

Case #: _____ Sampling Date(s): _____
SDG B8

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND																					
	Sample No.	B8		MF2																		
	Dilution Factor	100000		100000																		
	% Moisture	0.1		0.1																		
	Location	B8		MF2																		
10	Chloromethane																					
10	Bromomethane																					
10	Vinyl Chloride																					
10	Chloroethane																					
5	Methylene Chloride																					
10	Acetone																					
5	Carbon Disulfide																					
5	1,1-Dichloroethene																					
5	1,1-Dichloroethane																					
5	~~trans~~ total 1,2-Dichloroethene																					
5	Chloroform																					
5	1,2-Dichloroethane																					
10	2-Butanone																					
5	1,1,1-Trichloroethane																					
5	Carbon Tetrachloride																					
10	Vinyl Acetate																					
5	Bromodichloromethane																					
5	cis-1,2-Dichloroethene																					

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS
revised 07/90

DATA SUMMARY FORM: V O L A T I L E S 2

NAPL
~~SOIL~~ SAMPLES
(µg/Kg)

Site Name: IROQUOIS/WESTWOOD

Case #: _____ Sampling Date(s): _____

SDG B8

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND																					
	Sample No.	B8		MF2																		
	Dilution Factor	100000		100000																		
	% Moisture	0.1		0.1																		
	Location	B8		MF2																		
5	1,2-Dichloropropane																					
5	Cis-1,3-Dichloropropene																					
5	Trichloroethene																					
5	Dibromochloromethane																					
5	1,1,2-Trichloroethane																					
5	Benzene	730000		250000	J																	
5	Trans-1,3-Dichloropropene																					
5	Bromoform																					
10	4-Methyl-2-pentanone																					
10	2-Hexanone																					
5	Tetrachloroethene																					
5	1,1,2,2,-Tetrachloroethane																					
5	Toluene			480000	J																	
5	Chlorobenzene																					
5	Ethylbenzene	6600000		1400000																		
5	Styrene																					
5	Total Xylenes	5200000		1370000	J																	

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

revised 07/90

DATA SUMMARY FORM: B N A S 1

NAPL
~~SOIL~~ SAMPLES
(µg/Kg)

Site Name: IROQUOIS/WESTWOOD

Case #: _____ Sampling Date: _____

SDG B8

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((1 - % moisture)/100)

Sample No.	B8	MF2								
Dilution Factor	15000	15000								
% Moisture	0.1	0.1								
Location	B8	MF2								

CRQL	COMPOUND																				
330	Phenol																				
330	bis(2-Chloroethyl)ether																				
330	2-Chlorophenol																				
330	1,3-Dichlorobenzene																				
330	1,4-Dichlorobenzene																				
330	Benzyl Alcohol																				
330	1,2-Dichlorobenzene																				
330	2-Methylphenol																				
330	bis(2-Chloroisopropyl)ether																				
330	4-Methylphenol																				
330	N-Nitroso-di-n-propylamine																				
330	Hexachloroethane																				
330	Nitrobenzene																				
330	Isophorone																				
330	2-Nitrophenol																				
330	2,4-Dimethylphenol																				
1600	Benzoic Acid																				
330	bis(2-Chloroethoxy)methane																				
330	2,4-Dichlorophenol																				
330	1,2,4-Trichlorobenzene																				
330	Naphthalene	57000000		66000000																	
330	4-Chloroaniline																				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

revised 07/90

DATA SUMMARY FORM: B N A S 2

NAPL
~~SOIL~~ **SAMPLES**
(µg/Kg)

Site Name: IROQUOIS / WESTWOOD

Case #: _____ **Sampling Date(s):** _____

SDG B8

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

	Sample No.	BB		MF2															
	Dilution Factor	15000		15000															
	% Moisture	0.1		0.1															
	Location	B8		MF2															
CRQL	COMPOUND																		
330	Hexachlorobutadiene																		
330	4-Chloro-3-methylphenol																		
330	2-Methylnaphthalene	27000000		34000000															
330	Hexachlorocyclopentadiene																		
330	2,4,6-Trichlorophenol																		
1600	2,4,5-Trichlorophenol																		
330	2-Chloronaphthalene																		
1600	2-Nitroaniline																		
330	Dimethylphthalate																		
330	Acenaphthylene	1500000	J	2500000	J														
330	2,6-Dinitrotoluene																		
1600	3-Nitroaniline																		
330	Acenaphthene	17000000		14000000															
1600	2,4-Dinitrophenol																		
1600	4-Nitrophenol																		
330	Dibenzofuran	970000	J	1000000	J														
330	2,4-Dinitrotoluene																		
330	Diethylphthalate																		
330	4-Chlorophenyl-phenylether																		
330	Fluorene	8100000		8600000															
1600	4-Nitroaniline																		
1600	4,6-Dinitro-2methylphenol																		

CRQL = Contract Required Quantitation Limit

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revised 07/90

DATA SUMMARY FORM: B N A S 3

Site Name: IROQUOIS/WESTWOOD

NAPL ~~SOIL~~ SAMPLES (µg/Kg)

Case #: _____ Sampling Date(s): _____

SDG B8

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND																				
	Sample No.	B8		MF2																	
	Dilution Factor	15000		15000																	
	% Moisture	0.1		0.1																	
	Location	B8		MF2																	
330	N-Nitrosodiphenylamine																				
330	4-Bromophenyl-phenylether																				
330	Hexachlorobenzene																				
1600	Pentachlorophenol																				
330	Phenanthrene	25000000		25000000																	
330	Anthracene	7900000		7300000																	
330	Di-n-butylphthalate																				
330	Fluoranthene	8700000		7900000																	
330	Pyrene	14000000		13000000																	
330	Butylbenzylphthalate																				
660	3,3'-Dichlorobenzidine																				
330	Benzo(a)anthracene	4100000	J	4200000	J																
330	Chrysene	3800000	J	4000000	J																
330	bis(2-Ethylhexyl)phthalate																				
330	Di-n-octylphthalate																				
330	Benzo(b)fluoranthene	1200000	J	1300000	J																
330	Benzo(k)fluoranthene	1900000	J	1700000	J																
330	Benzo(a)pyrene	3400000	J	3400000	J																
330	Indeno(1,2,3-cd)pyrene																				
330	Dibenz(a,h)anthracene																				
330	Benzo(g,h)perylene																				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B8

Lab Name: New CLP Forms Contract: 1234-56

Lab Code: HP001 Case No.: --- SAS No.: --- SDG No.: B8

Matrix: (soil/water) NAPL Lab Sample ID: 2177-1

Sample wt/vol: 1 (g/mL) G Lab File ID: >C9380

Level: (low/med) NAPL Date Received: 05/29/92

% Moisture: not dec. 0.1 Date Analyzed: 6/04/92

Column: (pack/cap) CAP Dilution Factor: 100000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1000000.	U
74-83-9	Bromomethane	1000000.	U
75-01-4	Vinyl chloride	1000000.	U
75-00-3	Chloroethane	1000000.	U
75-09-2	Methylene_chloride	500000.	U
67-64-1	Acetone	1000000.	U
75-15-0	Carbon Disulfide	500000.	U
75-35-4	1,1-Dichloroethene	500000.	U
75-34-3	1,1-Dichloroethane	500000.	U
156-60-5	trans-1,2-Dichloroethene	500000.	U
156-59-2	cis-1,2-Dichloroethene	500000.	U
67-66-3	Chloroform	500000.	U
107-02-2	1,2-Dichloroethane	500000.	U
78-93-3	2-Butanone	1000000.	U
71-55-6	1,1,1-Trichloroethane	500000.	U
56-23-5	Carbon tetrachloride	500000.	U
108-05-4	Vinyl Acetate	1000000.	U
75-27-4	Bromodichloromethane	500000.	U
78-87-5	1,2-Dichloropropane	500000.	U
10061-01-5	cis-1,3-Dichloropropene	500000.	U
79-01-6	Trichloroethene	500000.	U
124-48-1	Dibromochloromethane	500000.	U
79-00-5	1,1,2-Trichloroethane	500000.	U
71-43-2	Benzene	750000.	
10061-02-6	trans-1,3-Dichloropropene	500000.	U
75-25-2	Bromoform	500000.	U
108-10-1	4-Methyl-2-pentanone	1000000.	U
591-78-6	2-Hexanone	1000000.	U
127-18-4	Tetrachloroethene	500000.	U
79-34-5	1,1,2,2-Tetrachloroethane	500000.	U
108-88-3	Toluene	500000.	U
108-90-7	Chlorobenzene	500000.	U
100-41-4	Ethylbenzene	6600000.	
100-42-5	Styrene	500000.	U
133-02-7	(m+p)Xylene	3600000.	
133-02-7	o-Xylene	1600000.	

0006

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B8

Lab Name: GENERAL TESTING Contract: GEOTRANS

Code: 10145 Case No.: --- SAS No.: --- SDG No.: B8

atrix: (soil/water) NAPL Lab Sample ID: 2177-1

Sample wt/vol: 1 (g/mL) G Lab File ID: >B7039

evel: (low/med) NAPL Date Received: 05/29/92

% Moisture: not dec. 0.1 dec. ---- Date Extracted: 06/02/92

PC Cleanup: (Y/N) N pH: --- Date Analyzed: 6/08/92

inal Extract Volume: 1000 (uL) Dilution Factor: 500.000

Injection Volume: 1 (uL) Conversion Factor: 7.0000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	5000000.	U
111-44-4	bis(-2-Chloroethyl)Ether	5000000.	U
95-57-8	2-Chlorophenol	5000000.	U
541-73-1	1,3-Dichlorobenzene	5000000.	U
106-46-7	1,4-Dichlorobenzene	5000000.	U
100-51-6	Benzyl Alcohol	5000000.	U
95-50-1	1,2-Dichlorobenzene	5000000.	U
95-48-7	2-Methylphenol	5000000.	U
39638-32-9	bis(2-Chloroisopropyl)ether	5000000.	U
106-44-5	4-Methylphenol	5000000.	U
621-64-7	N-Nitroso-Di-n-propylamine	5000000.	U
67-72-1	Hexachloroethane	5000000.	U
98-95-3	Nitrobenzene	5000000.	U
78-59-1	Isophorone	5000000.	U
88-75-5	2-Nitrophenol	5000000.	U
105-67-9	2,4-Dimethylphenol	5000000.	U
65-85-0	Benzoic acid	25000000.	U
111-91-1	bis(-2-Chloroethoxy)Methane	5000000.	U
120-83-2	2,4-Dichlorophenol	5000000.	U
120-82-1	1,2,4-Trichlorobenzene	5000000.	U
91-20-3	Naphthalene	57000000.	
106-47-8	4-Chloroaniline	5000000.	U
87-68-3	Hexachlorobutadiene	5000000.	U
59-50-7	4-Chloro-3-methylphenol	5000000.	U
91-57-6	2-Methylnaphthalene	27000000.	
77-47-4	Hexachlorocyclopentadiene	5000000.	U
88-06-2	2,4,6-Trichlorophenol	5000000.	U
95-95-4	2,4,5-Trichlorophenol	25000000.	U
91-58-7	2-Chloronaphthalene	5000000.	U
88-74-4	2-Nitroaniline	25000000.	U
131-11-3	Dimethyl Phthalate	5000000.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B8

Lab Name:GENERAL TESTING Contract:GEOTRANS

Code: 10145 Case No.: --- SAS No.: --- SDG No.: B8

atrix: (soil/water) NAPL Lab Sample ID: 2177-1

Sample wt/vol: 1 (g/mL) G Lab File ID: >B7039

evel: (low/med) NAPL Date Received: 05/29/92

% Moisture: not dec.0.1 dec. ---- Date Extracted:06/02/92

PC Cleanup: (Y/N) N pH:--- Date Analyzed: 6/08/92

inal Extract Volume:1000 (uL) Dilution Factor: 500.000

Injection Volume: 1 (uL) Conversion Factor: 7.0000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
208-96-8	Acenaphthylene	1500000.	J
606-20-2	2,6-Dinitrotoluene	5000000.	U
99-09-2	3-Nitroaniline	25000000.	U
83-32-9	Acenaphthene	17000000.	
51-28-5	2,4-Dinitrophenol	25000000.	U
100-02-7	4-Nitrophenol	25000000.	U
132-64-9	Dibenzofuran	970000.	J
121-14-2	2,4-Dinitrotoluene	5000000.	U
84-66-2	Diethylphthalate	5000000.	U
7005-72-3	4-Chlorophenyl-phenylether	5000000.	U
86-73-7	Fluorene	8100000.	
100-01-6	4-Nitroaniline	25000000.	U
534-52-1	4,6-Dinitro-2-methylphenol	25000000.	U
86-30-6	N-Nitrosodiphenylamine (1)	5000000.	U
101-55-3	4-Bromophenyl-phenylether	5000000.	U
118-74-1	Hexachlorobenzene	5000000.	U
87-86-5	Pentachlorophenol	25000000.	U
85-01-8	Phenanthrene	25000000.	
120-12-7	Anthracene	7900000.	
84-74-2	Di-n-Butylphthalate	5000000.	U
206-44-0	Fluoranthene	8700000.	
129-00-0	Pyrene	14000000.	
85-68-7	Butyl benzyl_phthalate	5000000.	U
91-94-1	3,3'-Dichlorobenzidine	10000000.	U
56-55-3	Benzo(a)Anthracene	4100000.	J
218-01-9	Chrysene	3800000.	J
117-81-7	Bis(2-Ethylhexyl)Phthalate	5000000.	U
117-84-0	Di-n-octyl_phthalate	5000000.	U
205-99-2	Benzo(b)fluoranthene	1200000.	J
207-08-9	Benzo(k)Fluoranthene	1900000.	J
50-32-8	Benzo(a)Pyrene	3400000.	J
193-39-5	Indeno(1,2,3-cd)Pyrene	5000000.	U
53-70-3	Dibenz(a,h)anthracene	5000000.	U
191-24-2	Benzo(g,h,i)Perylene	5000000.	U

(1) - Cannot be separated from Diphenylamine

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF2

Lab Name: GENERAL TESTING Contract: GEOTRANS

Lab Code: 10145 Case No.: --- SAS No.: --- SDG No.: B8

Matrix: (soil/water) NAPL Lab Sample ID: 2177-2

Sample wt/vol: 1 (g/mL) G Lab File ID: >C9381

Level: (low/med) NAPL Date Received: 05/29/92

% Moisture: not dec. 0.1 Date Analyzed: 6/04/92

Column: (pack/cap) CAP Dilution Factor: 100000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1000000.	U
74-83-9	Bromomethane	1000000.	U
75-01-4	Vinyl chloride	1000000.	U
75-00-3	Chloroethane	1000000.	U
75-09-2	Methylene_chloride	500000.	U
67-64-1	Acetone	1000000.	U
75-15-0	Carbon Disulfide	500000.	U
75-35-4	1,1-Dichloroethene	500000.	U
75-34-3	1,1-Dichloroethane	500000.	U
156-60-5	trans-1,2-Dichloroethene	500000.	U
156-59-2	cis-1,2-Dichloroethene	500000.	U
67-66-3	Chloroform	500000.	U
107-02-2	1,2-Dichloroethane	500000.	U
78-93-3	2-Butanone	1000000.	U
71-55-6	1,1,1-Trichloroethane	500000.	U
56-23-5	Carbon tetrachloride	500000.	U
108-05-4	Vinyl Acetate	1000000.	U
75-27-4	Bromodichloromethane	500000.	U
78-87-5	1,2-Dichloropropane	500000.	U
10061-01-5	cis-1,3-Dichloropropene	500000.	U
79-01-6	Trichloroethene	500000.	U
124-48-1	Dibromochloromethane	500000.	U
79-00-5	1,1,2-Trichloroethane	500000.	U
71-43-2	Benzene	250000.	J
10061-02-6	trans-1,3-Dichloropropene	500000.	U
75-25-2	Bromoform	500000.	U
108-10-1	4-Methyl-2-pentanone	1000000.	U
591-78-6	2-Hexanone	1000000.	U
127-18-4	Tetrachloroethene	500000.	U
79-34-5	1,1,2,2-Tetrachloroethane	500000.	U
108-88-3	Toluene	480000.	J
108-90-7	Chlorobenzene	500000.	U
100-41-4	Ethylbenzene	1400000.	
100-42-5	Styrene	500000.	U
133-02-7	(m+p)Xylene	980000.	
133-02-7	o-Xylene	390000.	J

0008

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF2

Lab Name: GENERAL TESTING Contract: GEOTRANS

Lab Code: 10145 Case No.: --- SAS No.: --- SDG No.: B8

Matrix: (soil/water) NAPL Lab Sample ID: 2177-2

Sample wt/vol: 1 (g/mL) G Lab File ID: >B7040

Level: (low/med) NAPL Date Received: 05/29/92

% Moisture: not dec. 0.1 dec. ---- Date Extracted: 06/02/92

GPC Cleanup: (Y/N) N pH: --- Date Analyzed: 6/08/92

Final Extract Volume: 1000 (uL) Dilution Factor: 500.000

Injection Volume: 1 (uL) Conversion Factor: 7.0000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	5000000.	U
111-44-4	bis(-2-Chloroethyl)Ether	5000000.	U
95-57-8	2-Chlorophenol	5000000.	U
541-73-1	1,3-Dichlorobenzene	5000000.	U
106-46-7	1,4-Dichlorobenzene	5000000.	U
100-51-6	Benzyl Alcohol	5000000.	U
95-50-1	1,2-Dichlorobenzene	5000000.	U
95-48-7	2-Methylphenol	5000000.	U
39638-32-9	bis(2-Chloroisopropyl)ether	5000000.	U
106-44-5	4-Methylphenol	5000000.	U
621-64-7	N-Nitroso-Di-n-propylamine	5000000.	U
67-72-1	Hexachloroethane	5000000.	U
98-95-3	Nitrobenzene	5000000.	U
78-59-1	Isophorone	5000000.	U
88-75-5	2-Nitrophenol	5000000.	U
105-67-9	2,4-Dimethylphenol	5000000.	U
65-85-0	Benzoic acid	25000000.	U
111-91-1	bis(-2-Chloroethoxy)Methane	5000000.	U
120-83-2	2,4-Dichlorophenol	5000000.	U
120-82-1	1,2,4-Trichlorobenzene	5000000.	U
91-20-3	Naphthalene	66000000.	
106-47-8	4-Chloroaniline	5000000.	U
87-68-3	Hexachlorobutadiene	5000000.	U
59-50-7	4-Chloro-3-methylphenol	5000000.	U
91-57-6	2-Methylnaphthalene	34000000.	
77-47-4	Hexachlorocyclopentadiene	5000000.	U
88-06-2	2,4,6-Trichlorophenol	5000000.	U
95-95-4	2,4,5-Trichlorophenol	25000000.	U
91-58-7	2-Chloronaphthalene	5000000.	U
88-74-4	2-Nitroaniline	25000000.	U
131-11-3	Dimethyl Phthalate	5000000.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF2

ab Name:GENERAL TESTING Contract:GEOTRANS

ode: 10145 Case No.: --- SAS No.: --- SDG No.: B8

trix: (soil/water) NAPL Lab Sample ID: 2177-2

ample wt/vol: 1 (g/mL) G Lab File ID: >B7040

vel: (low/med) NAPL Date Received: 05/29/92

Moisture: not dec.0.1 dec. ---- Date Extracted:06/02/92

C Cleanup: (Y/N) N pH:--- Date Analyzed: 6/08/92

nal Extract Volume:1000 (uL) Dilution Factor: 500.000

njection Volume: 1 (uL) Conversion Factor: 7.0000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
208-96-8	Acenaphthylene	2500000.	J
606-20-2	2,6-Dinitrotoluene	5000000.	U
99-09-2	3-Nitroaniline	25000000.	U
83-32-9	Acenaphthene	14000000.	
51-28-5	2,4-Dinitrophenol	25000000.	U
100-02-7	4-Nitrophenol	25000000.	U
132-64-9	Dibenzofuran	1000000.	J
121-14-2	2,4-Dinitrotoluene	5000000.	U
84-66-2	Diethylphthalate	5000000.	U
7005-72-3	4-Chlorophenyl-phenylether	5000000.	U
86-73-7	Fluorene	8600000.	
100-01-6	4-Nitroaniline	25000000.	U
534-52-1	4,6-Dinitro-2-methylphenol	25000000.	U
86-30-6	N-Nitrosodiphenylamine (1)	5000000.	U
101-55-3	4-Bromophenyl-phenylether	5000000.	U
118-74-1	Hexachlorobenzene	5000000.	U
87-86-5	Pentachlorophenol	25000000.	U
85-01-8	Phenanthrene	25000000.	
120-12-7	Anthracene	7300000.	
84-74-2	Di-n-Butylphthalate	5000000.	U
206-44-0	Fluoranthene	7900000.	
129-00-0	Pyrene	13000000.	
85-68-7	Butyl benzyl_phthalate	5000000.	U
91-94-1	3,3'-Dichlorobenzidine	10000000.	U
56-55-3	Benzo(a)Anthracene	4200000.	J
218-01-9	Chrysene	4000000.	J
117-81-7	Bis(2-Ethylhexyl)Phthalate	5000000.	U
117-84-0	Di-n-octyl_phthalate	5000000.	U
205-99-2	Benzo(b)fluoranthene	1300000.	J
207-08-9	Benzo(k)Fluoranthene	1700000.	J
50-32-8	Benzo(a)Pyrene	3400000.	J
193-39-5	Indeno(1,2,3-cd)Pyrene	5000000.	U
53-70-3	Dibenz(a,h)anthracene	5000000.	U
191-24-2	Benzo(g,h,i)Perylene	5000000.	U

(1) - Cannot be separated from Diphenylamine

0014

2020 NYSDEC
REMEDIAL INVESTIGATION REPORT
31 TONAWANDA STREET OFF-SITE

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-177477-1
Client Project/Site: 31 Tonawanda St. - OffSite C915299A

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, New York 14203

Attn: Mr. Glenn May

Authorized for release by:
12/3/2020 7:25:56 AM

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Orlette Johnson
Senior Project Manager
12/3/2020 7:25:56 AM

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-177477-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD RPD exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-177477-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-177477-1

Receipt
The samples were received on 11/3/2020 12:57 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2º C.

GC/MS VOA
Method 8260C: The following sample was analyzed using medium level soil analysis due to the abundance of non-target analytes: MW-100 (480-177477-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was analyzed using medium level soil analysis to bring the concentration of target analytes within the calibration range: MW-5R (480-177477-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were analyzed outside of analytical holding time due to test being added outside of analytical holding time: MW-5R (480-177477-1) and MW-100 (480-177477-3).

Method 8260C: The laboratory control sample (LCS) for preparation batch 480-559511 and analytical batch 480-560386 recovered outside control limits for the following analytes: 2-Butanone (MEK). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-560544 recovered above the upper control limit for Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-5R (480-177477-1), MW-8 (480-177477-2) and MW-100 (480-177477-3).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-560544 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 480-560544 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: MW-5R (480-177477-1), MW-8 (480-177477-2) and MW-100 (480-177477-3). Elevated reporting limits (RLs) are provided.

Method 8270D: The following samples required a dilution due to the nature of the sample matrix: MW-5R (480-177477-1) and MW-8 (480-177477-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 480-559859 and analytical batch 480-560544 recovered outside control limits for the following analytes: Atrazine, Benzo[g,h,i]perylene, Dibenz(a,h)anthracene, Hexachlorobenzene, Hexachlorobutadiene and Indeno[1,2,3-cd]pyrene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: 2,4,6-Tribromophenol (Surr) recovered above the upper control limit in the batch Method Blank. However, the associated samples were non-detect for acid extractable analytes. Therefore, re-extraction and re-analysis was not performed. The data has been reported and qualified. MW-5R (480-177477-1), MW-8 (480-177477-2) and MW-100 (480-177477-3)

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-559859 and analytical batch 480-560544 recovered outside control limits for the following surrogate: 2,4,6-Tribromophenol. This surrogate is

Job ID: 480-177477-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

biased high and no detections were found for associated analytes in the following affected samples: MW-5R (480-177477-1), MW-8 (480-177477-2) and MW-100 (480-177477-3). Therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: The following sample was diluted due to the nature of the sample matrix: MW-5R (480-177477-1). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8081B: For method 8081, the recovery of the one surrogate in samples MW-8 (480-177477-2) exceeds quality control limits due to the sample matrix. The recovery of the secondary surrogate is within quality control criteria; no corrective action is required.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: MW-5R (480-177477-1) and MW-100 (480-177477-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3580A: The following samples were prepared outside of preparation holding time due to being added out of hold: MW-5R (480-177477-1), MW-8 (480-177477-2) and MW-100 (480-177477-3).

Method 3580A: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: MW-5R (480-177477-1) and MW-100 (480-177477-3).

Method 3580A: The following samples were prepared outside of preparation holding time due to being added out of hold : MW-5R (480-177477-1), MW-8 (480-177477-2) and MW-100 (480-177477-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: New York State D.E.C.
Job ID: 480-177477-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: MW-100
Lab Sample ID: 480-177477-3
Date Collected: 10/29/20 11:35
Matrix: Waste
Date Received: 11/03/20 12:57

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	99	28	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,1,2,2-Tetrachloroethane	ND	H	99	16	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	99	50	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,1,2-Trichloroethane	ND	H	99	21	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,1-Dichloroethane	ND	H	99	31	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,1-Dichloroethene	ND	H	99	34	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,2,4-Trichlorobenzene	ND	H	99	38	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,2,4-Trimethylbenzene	**77**	**J H**	99	28	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,2-Dibromo-3-Chloropropane	ND	H	99	50	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,2-Dibromoethane	ND	H	99	17	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,2-Dichlorobenzene	ND	H	99	25	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,2-Dichloroethane	ND	H	99	41	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,2-Dichloropropane	ND	H	99	16	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,3,5-Trimethylbenzene	**68**	**J H**	99	30	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,3-Dichlorobenzene	ND	H	99	27	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
1,4-Dichlorobenzene	ND	H	99	14	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
2-Butanone (MEK)	ND	H *	500	300	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
2-Hexanone	ND	H	500	200	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
4-Methyl-2-pentanone (MIBK)	ND	H	500	32	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Acetone	ND	H	500	410	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Benzene	ND	H	99	19	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Bromodichloromethane	ND	H	99	20	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Bromoform	ND	H	99	50	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Bromomethane	ND	H	99	22	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Carbon disulfide	ND	H	99	45	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Carbon tetrachloride	ND	H	99	25	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Chlorobenzene	ND	H	99	13	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Chloroethane	ND	H	99	21	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Chloroform	ND	H	99	68	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Chloromethane	ND	H	99	24	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
cis-1,2-Dichloroethene	ND	H	99	27	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
cis-1,3-Dichloropropene	ND	H	99	24	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Cyclohexane	ND	H	99	22	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Dibromochloromethane	ND	H	99	48	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Dichlorodifluoromethane	ND	H	99	43	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Ethylbenzene	ND	H	99	29	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Isopropylbenzene	ND	H	99	15	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Methyl acetate	ND	H	500	47	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Methyl tert-butyl ether	ND	H	99	38	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Methylcyclohexane	ND	H	99	47	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Methylene Chloride	ND	H	99	20	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
n-Butylbenzene	ND	H	99	29	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
N-Propylbenzene	**31**	**J H**	99	26	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
sec-Butylbenzene	ND	H	99	37	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Styrene	ND	H	99	24	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
tert-Butylbenzene	ND	H	99	28	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Tetrachloroethene	ND	H	99	13	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Toluene	ND	H	99	27	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
trans-1,2-Dichloroethene	ND	H	99	23	ug/Kg		11/17/20 14:20	11/22/20 19:33	1

Client Sample ID: MW-100
Lab Sample ID: 480-177477-3
Date Collected: 10/29/20 11:35
Matrix: Waste
Date Received: 11/03/20 12:57

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND	H	99	9.8	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Trichloroethene	ND	H	99	28	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Trichlorofluoromethane	ND	H	99	47	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Vinyl chloride	ND	H	99	33	ug/Kg		11/17/20 14:20	11/22/20 19:33	1
Xylenes, Total	ND	H	200	55	ug/Kg		11/17/20 14:20	11/22/20 19:33	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1700*	*T H J*	*ug/Kg*		*10.92*		*11/17/20 14:20*	*11/22/20 19:33*	*1*
The second isomer tricyclopentadiene	*9400*	*T H J N*	*ug/Kg*		*11.20*	*1000222-21-1*	*11/17/20 14:20*	*11/22/20 19:33*	*1*
Unknown	*4600*	*T H J*	*ug/Kg*		*11.42*		*11/17/20 14:20*	*11/22/20 19:33*	*1*
4,7-Methano-1H-indene, 3a,4,7,7a-tetrahydrodimethyl-	*7500*	*T H J N*	*ug/Kg*		*11.56*	*26472-00-4*	*11/17/20 14:20*	*11/22/20 19:33*	*1*
4,7-Methano-1H-indene, 3a,4,7,7a-tetrahydrodimethyl-	*10000*	*T H J N*	*ug/Kg*		*11.84*	*26472-00-4*	*11/17/20 14:20*	*11/22/20 19:33*	*1*
1,2,4a,4b,7,8,8a,8b-Octahydrobiphenylene	*9500*	*T H J N*	*ug/Kg*		*12.15*	*1000193-45-6*	*11/17/20 14:20*	*11/22/20 19:33*	*1*
Unknown	*2200*	*T H J*	*ug/Kg*		*12.25*		*11/17/20 14:20*	*11/22/20 19:33*	*1*
Unknown	*3700*	*T H J*	*ug/Kg*		*12.50*		*11/17/20 14:20*	*11/22/20 19:33*	*1*
Unknown	*3100*	*T H J*	*ug/Kg*		*12.70*		*11/17/20 14:20*	*11/22/20 19:33*	*1*
Unknown	*3900*	*T H J*	*ug/Kg*		*12.88*		*11/17/20 14:20*	*11/22/20 19:33*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*50 - 149*	*11/17/20 14:20*	*11/22/20 19:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*53 - 146*	*11/17/20 14:20*	*11/22/20 19:33*	*1*
4-Bromofluorobenzene (Surr)	*100*		*49 - 148*	*11/17/20 14:20*	*11/22/20 19:33*	*1*
Dibromofluoromethane (Surr)	*89*		*60 - 140*	*11/17/20 14:20*	*11/22/20 19:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	H	430000	120000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
2,4,6-Trichlorophenol	ND	H	430000	85000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
2,4-Dichlorophenol	ND	H	430000	45000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
2,4-Dimethylphenol	ND	H	430000	100000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
2,4-Dinitrophenol	ND	H	4200000	2000000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
2,4-Dinitrotoluene	ND	H	430000	88000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
2,6-Dinitrotoluene	ND	H	430000	50000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
2-Chloronaphthalene	ND	H	430000	70000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
2-Chlorophenol	ND	H	430000	78000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
2-Methylnaphthalene	**310000**	**J H**	430000	85000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
2-Methylphenol	ND	H	430000	50000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
2-Nitroaniline	ND	H	830000	63000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
2-Nitrophenol	ND	H	430000	120000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
3,3'-Dichlorobenzidine	ND	H	830000	500000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
3-Nitroaniline	ND	H	830000	120000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
4,6-Dinitro-2-methylphenol	ND	H	830000	430000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
4-Bromophenyl phenyl ether	ND	H	430000	60000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
4-Chloro-3-methylphenol	ND	H	430000	110000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
4-Chloroaniline	ND	H	430000	110000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
4-Chlorophenyl phenyl ether	ND	H	430000	53000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
4-Methylphenol	ND	H	830000	50000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10

Client Sample ID: MW-100
Date Collected: 10/29/20 11:35
Date Received: 11/03/20 12:57

Lab Sample ID: 480-177477-3
Matrix: Waste

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND	H	830000	220000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
4-Nitrophenol	ND	H	830000	300000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Acenaphthene	ND	H	430000	63000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Acenaphthylene	**130000**	**J H**	430000	55000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Acetophenone	ND	H	430000	58000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Anthracene	ND	H	430000	110000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Atrazine	ND	H *	430000	150000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Benzaldehyde	ND	H	430000	340000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Benzo[a]anthracene	ND	H	430000	43000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Benzo[a]pyrene	ND	H	430000	63000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Benzo[b]fluoranthene	ND	H	430000	68000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Benzo[g,h,i]perylene	ND	H *	430000	45000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Benzo[k]fluoranthene	ND	H	430000	55000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Biphenyl	ND	H	430000	63000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
bis (2-chloroisopropyl) ether	ND	H	430000	85000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Bis(2-chloroethoxy)methane	ND	H	430000	90000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Bis(2-chloroethyl)ether	ND	H	430000	55000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Bis(2-ethylhexyl) phthalate	ND	H	430000	150000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Butyl benzyl phthalate	ND	H	430000	70000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Caprolactam	ND	H	430000	130000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Carbazole	ND	H	430000	50000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Chrysene	ND	H	430000	95000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Dibenz(a,h)anthracene	ND	H *	430000	75000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Dibenzofuran	ND	H	430000	50000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Diethyl phthalate	ND	H	430000	55000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Dimethyl phthalate	ND	H	430000	50000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Di-n-butyl phthalate	ND	H	430000	73000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Di-n-octyl phthalate	ND	H	430000	50000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Fluoranthene	**73000**	**J H**	430000	45000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Fluorene	**75000**	**J H**	430000	50000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Hexachlorobenzene	ND	H *	430000	58000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Hexachlorobutadiene	ND	H *	430000	63000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Hexachlorocyclopentadiene	ND	H	430000	58000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Hexachloroethane	ND	H	430000	55000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Indeno[1,2,3-cd]pyrene	ND	H *	430000	53000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Isophorone	ND	H	430000	90000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Naphthalene	**550000**	**H**	430000	55000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Nitrobenzene	ND	H	430000	48000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
N-Nitrosodi-n-propylamine	ND	H	430000	73000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
N-Nitrosodiphenylamine	ND	H	430000	350000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Pentachlorophenol	ND	H	830000	430000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Phenanthrene	**280000**	**J H**	430000	63000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Phenol	ND	H	430000	65000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10
Pyrene	**130000**	**J H**	430000	50000	ug/Kg		11/19/20 07:09	11/24/20 00:49	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*				*11/19/20 07:09*	*11/24/20 00:49*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*79*		*53 - 120*	*11/19/20 07:09*	*11/24/20 00:49*	*10*

Client Sample ID: MW-100
Lab Sample ID: 480-177477-3
Date Collected: 10/29/20 11:35
Matrix: Waste
Date Received: 11/03/20 12:57

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*58*		*54 - 120*	*11/19/20 07:09*	*11/24/20 00:49*	*10*
p-Terphenyl-d14 (Surr)	*86*		*79 - 130*	*11/19/20 07:09*	*11/24/20 00:49*	*10*
2,4,6-Tribromophenol (Surr)	*79*		*54 - 120*	*11/19/20 07:09*	*11/24/20 00:49*	*10*
2-Fluorobiphenyl (Surr)	*83*		*60 - 120*	*11/19/20 07:09*	*11/24/20 00:49*	*10*
2-Fluorophenol (Surr)	*59*		*52 - 120*	*11/19/20 07:09*	*11/24/20 00:49*	*10*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H	0.26	0.051	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
4,4'-DDE	ND	H	0.26	0.074	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
4,4'-DDT	ND	H	0.26	0.058	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
Aldrin	ND	H	0.26	0.027	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
alpha-BHC	ND	H	0.26	0.047	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
cis-Chlordane	ND	H	0.26	0.13	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
beta-BHC	ND	H	0.26	0.19	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
delta-BHC	ND	H	0.26	0.035	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
Dieldrin	ND	H	0.26	0.063	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
Endosulfan I	ND	H	0.26	0.056	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
Endosulfan II	ND	H	0.26	0.047	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
Endosulfan sulfate	ND	H	0.26	0.049	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
Endrin	ND	H	0.26	0.084	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
Endrin aldehyde	ND	H	0.26	0.067	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
Endrin ketone	ND	H	0.26	0.063	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
gamma-BHC (Lindane)	ND	H	0.26	0.19	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
trans-Chlordane	ND	H	0.26	0.036	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
Heptachlor	ND	H	0.26	0.041	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
Heptachlor epoxide	ND	H	0.26	0.068	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
Methoxychlor	ND	H	0.26	0.068	mg/Kg		11/19/20 07:03	11/20/20 11:12	1
Toxaphene	ND	H	2.6	1.5	mg/Kg		11/19/20 07:03	11/20/20 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*91*		*45 - 120*	*11/19/20 07:03*	*11/20/20 11:12*	*1*
DCB Decachlorobiphenyl	*133*	*X*	*45 - 120*	*11/19/20 07:03*	*11/20/20 11:12*	*1*
Tetrachloro-m-xylene	*82*		*30 - 124*	*11/19/20 07:03*	*11/20/20 11:12*	*1*
Tetrachloro-m-xylene	*55*		*30 - 124*	*11/19/20 07:03*	*11/20/20 11:12*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		42	8.2	mg/Kg		11/09/20 07:17	11/10/20 13:51	10
PCB-1221	ND		42	8.2	mg/Kg		11/09/20 07:17	11/10/20 13:51	10
PCB-1232	ND		42	8.2	mg/Kg		11/09/20 07:17	11/10/20 13:51	10
PCB-1242	ND		42	8.2	mg/Kg		11/09/20 07:17	11/10/20 13:51	10
PCB-1248	ND		42	8.2	mg/Kg		11/09/20 07:17	11/10/20 13:51	10
PCB-1254	ND		42	2.0	mg/Kg		11/09/20 07:17	11/10/20 13:51	10
PCB-1260	ND		42	2.0	mg/Kg		11/09/20 07:17	11/10/20 13:51	10
PCB-1262	ND		42	2.0	mg/Kg		11/09/20 07:17	11/10/20 13:51	10
PCB-1268	ND		42	2.0	mg/Kg		11/09/20 07:17	11/10/20 13:51	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	*154*		*60 - 154*	*11/09/20 07:17*	*11/10/20 13:51*	*10*

Client Sample ID: MW-100
Lab Sample ID: 480-177477-3

Date Collected: 10/29/20 11:35
Matrix: Waste

Date Received: 11/03/20 12:57

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*131*		*60 - 154*	*11/09/20 07:17*	*11/10/20 13:51*	*10*
DCB Decachlorobiphenyl (Surr)	*998*	*X*	*65 - 174*	*11/09/20 07:17*	*11/10/20 13:51*	*10*
DCB Decachlorobiphenyl (Surr)	*142*		*65 - 174*	*11/09/20 07:17*	*11/10/20 13:51*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.7	4.3	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Antimony	ND		14.6	0.39	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Arsenic	ND		1.9	0.39	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Barium	**0.28**	**J ^**	0.49	0.11	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Beryllium	ND		0.19	0.027	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Cadmium	ND		0.19	0.029	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Calcium	**169**	**B**	48.6	3.2	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Chromium	ND		0.49	0.19	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Cobalt	ND		0.49	0.049	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Copper	ND		0.97	0.20	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Iron	ND		9.7	3.4	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Lead	ND		0.97	0.23	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Lithium	ND		4.9	0.49	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Magnesium	**166**		19.4	0.90	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Manganese	**0.20**	**B**	0.19	0.031	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Molybdenum	ND		0.97	0.13	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Nickel	ND		4.9	0.22	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Potassium	ND		29.2	19.4	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Selenium	ND		3.9	0.39	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Silver	ND		0.58	0.19	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Sodium	**174**		136	12.6	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Strontium	**8.4**	**^**	0.49	0.042	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Thallium	ND		5.8	0.29	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Tin	ND		1.9	0.42	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Titanium	ND		0.49	0.078	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Vanadium	ND		0.49	0.11	mg/Kg		12/01/20 10:56	12/02/20 01:32	1
Zinc	ND		1.9	0.62	mg/Kg		12/01/20 10:56	12/02/20 01:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021	0.0084	mg/Kg		11/25/20 15:09	11/25/20 19:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Gravity	**1.0017**		0.1000	0.1000	g/mL			11/18/20 14:00	1

TestAmerica Amherst
10 Hazelwood Drive

Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record 252560

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Tom Palmer	Site Contact: Glenn May	Date: 10/28/20	COC No:
Company Name: GES	Tel/Fax:	Lab Contact: Odette	Carrier:	____ of ____ COCs
Address: 415 Lawrence Bell Drive	Analysis Turnaround Time			Sampler:
City/State/Zip: Williamsville NY 14221	☐ CALENDAR DAYS ☐ WORKING DAYS			
Phone:	TAT if different from Below ____			
Fax:	X 2 weeks			
Project Name: Tonawanda ST	☐ 1 week			
Site: Tonawanda st JOB # 0901816	☐ 2 days			
P O #	☐ 1 day			

480-177477 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOC's	SVOC's	Metals	PCB's	Pesticides	Specific Gravity	Sample Specific Notes:
MW-5R	10/28/20	1200	G	DNAPL	2			X	X	X	X	X	X	DNAPL/unknown
														May be HaZ.
MW-8	10/29/20	0830	G	DNAPL	2			X	X	X	X	X	X	Product/water mix: Sample is
MW-100	10/29/20	1135	G	DNAPL	2			X	X	X	X	X	X	biphasic, if possible analyze
														Product ONLY. Priority
														order = VOC's + SVOC's
														first, then whatever is
														left with remaining
														volume. Thank you.

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other none

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
NYSDEC EQUIS

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 3.2	Corr'd: ____	Therm ID No.: #1 ICE

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	GES	10/28/20 1710			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	GES	10/29/20 1257			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	10/30/20 1057

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-177853-1
Client Project/Site: 31 Tonawanda St. - OffSite C915299A

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, New York 14203

Attn: Mr. Glenn May

Authorized for release by:
12/3/2020 7:39:46 AM

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

LINKS

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Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Orlette Johnson
Senior Project Manager
12/3/2020 7:39:46 AM

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-177853-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-177853-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-177853-1

Comments
No additional comments.

Receipt
The samples were received on 11/6/2020 11:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9º C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-8R (480-177853-1) and MW-100 (480-177853-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted due to the abundance of non-target analytes: MW-103 (480-177853-3) and MW-106 (480-177853-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-8R (480-177853-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-558713 recovered outside acceptance criteria, low biased, for Chloromethane and Methyl tert-butyl ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-560399 recovered above the upper control limit for Cyclohexane, 1,1,1-Trichloroethane, Methylcyclohexane, Carbon disulfide, Carbon tetrachloride, 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane, and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-100 DNAPL (480-177853-5).

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: MW-100 DNAPL (480-177853-5). Elevated reporting limits (RLs) are provided.

Method 8260C: Reanalysis of the following sample was performed outside of the analytical holding time due to test being added late : MW-100 DNAPL (480-177853-5).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-559861 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane, Carbon disulfide, Carbon tetrachloride and Methylcyclohexane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-100 DNAPL (480-177853-5).

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: MW-100 DNAPL (480-177853-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-559179 recovered above the upper control limit for 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-8R (480-177853-1), MW-103 (480-177853-3) and MW-106 (480-177853-4).

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-8R (480-177853-1). These results have been reported and qualified.

Methods 8270D, 8270D_LL_PAH: The following sample was diluted to bring the concentration of target analytes within the calibration

Job ID: 480-177853-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

range: MW-100 (480-177853-2). Elevated reporting limits (RLs) are provided.

Methods 8270D, 8270D_LL_PAH: The following samples required a dilution due to the abundance of target analyte(s): MW-100 (480-177853-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-560162 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-560162 recovered above the upper control limit for 4-Nitrophenol and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-100 (480-177853-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8081B: The continuing calibration verification (CCV) associated with batch 480-558484 recovered above the upper control limit for Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-8R (480-177853-1) and MW-106 (480-177853-4).

Method 8081B: The following sample was diluted due to the nature of the sample matrix: MW-100 (480-177853-2). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8081B: The following sample was diluted due to the nature of the sample matrix: MW-100 DNAPL (480-177853-5). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8082A: The continuing calibration verification (CCV) associated with batch 480-558765 recovered above the upper control limit for PCB-1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-8R (480-177853-1), MW-100 (480-177853-2), MW-103 (480-177853-3) and MW-106 (480-177853-4).

Method 8082A: The following samples are associated with a continuing calibration verification (CCV 480-558765/59) that had recoveries for the surrogate Tetrachloro-m-xylene that were above acceptance limits: MW-8R (480-177853-1), MW-100 (480-177853-2), MW-103 (480-177853-3) and MW-106 (480-177853-4). The secondary surrogate Decachlorobiphenyl is within limits; therefore, the data has been reported.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: MW-100 DNAPL (480-177853-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. MW-8R (480-177853-1), MW-100 (480-177853-2), MW-103 (480-177853-3), MW-106 (480-177853-4), (LCS 480-558412/2-A), (MB 480-558412/1-A), (480-177853-G-3-B MS), (480-177853-G-3-C MSD), (480-177853-G-3-A PDS) and (480-177853-G-3-A SD ^5)

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. MW-100 DNAPL (480-177853-5), (LCSSRM 480-559736/2-A) and (MB 480-559736/1-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 480-177853-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: The following sample required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: MW-100 (480-177853-2).

Method 3510C: The following sample was re-prepared outside of preparation holding time due to sample extract evaporating out of vial: MW-100 (480-177853-2).

Method 3580A: The following sample required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: MW-100 DNAPL (480-177853-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: New York State D.E.C.
Job ID: 480-177853-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: MW-100 DNAPL
Lab Sample ID: 480-177853-5
Date Collected: 11/05/20 12:00
Matrix: Waste
Date Received: 11/06/20 11:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40000	11000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
1,1,2,2-Tetrachloroethane	ND		40000	6500	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
1,1,2-Trichloroethane	ND		40000	8400	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40000	20000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
1,1-Dichloroethane	ND		40000	12000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
1,1-Dichloroethene	ND		40000	14000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
1,2,4-Trichlorobenzene	ND		40000	15000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
1,2-Dibromo-3-Chloropropane	ND		40000	20000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
1,2-Dichlorobenzene	ND		40000	10000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
1,2-Dichloroethane	ND		40000	16000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
1,2-Dichloropropane	ND		40000	6500	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
1,3-Dichlorobenzene	ND		40000	11000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
1,4-Dichlorobenzene	ND		40000	5600	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
2-Butanone (MEK)	ND		200000	120000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
2-Hexanone	ND		200000	82000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
4-Methyl-2-pentanone (MIBK)	ND		200000	13000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Acetone	ND		200000	160000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Benzene	**1500000**		40000	7600	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Bromodichloromethane	ND		40000	8000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Bromoform	ND		40000	20000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Bromomethane	ND		40000	8800	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Carbon disulfide	ND		40000	18000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Carbon tetrachloride	ND		40000	10000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Chlorobenzene	ND		40000	5300	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Dibromochloromethane	ND		40000	19000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Chloroethane	ND		40000	8300	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Chloroform	ND		40000	27000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Chloromethane	ND		40000	9500	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
cis-1,2-Dichloroethene	ND		40000	11000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
cis-1,3-Dichloropropene	ND		40000	9500	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Cyclohexane	ND		40000	8800	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Dichlorodifluoromethane	ND		40000	17000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Ethylbenzene	**5200000**	**E**	40000	12000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
1,2-Dibromoethane	ND		40000	7000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Isopropylbenzene	**150000**		40000	6000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Methyl acetate	ND		200000	19000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Methyl tert-butyl ether	ND		40000	15000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Methylcyclohexane	ND		40000	19000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Methylene Chloride	ND		40000	7900	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Styrene	**360000**		40000	9600	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Tetrachloroethene	ND		40000	5400	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Toluene	**3200000**		40000	11000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
trans-1,2-Dichloroethene	ND		40000	9400	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
trans-1,3-Dichloropropene	ND		40000	3900	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Trichloroethene	ND		40000	11000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Trichlorofluoromethane	ND		40000	19000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Vinyl chloride	ND		40000	13000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400
Xylenes, Total	**3500000**		80000	22000	ug/Kg		11/17/20 14:20	11/19/20 12:00	400

Client Sample ID: MW-100 DNAPL
Lab Sample ID: 480-177853-5

Date Collected: 11/05/20 12:00
Matrix: Waste
Date Received: 11/06/20 11:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*50 - 149*	*11/17/20 14:20*	*11/19/20 12:00*	*400*
1,2-Dichloroethane-d4 (Surr)	*101*		*53 - 146*	*11/17/20 14:20*	*11/19/20 12:00*	*400*
4-Bromofluorobenzene (Surr)	*103*		*49 - 148*	*11/17/20 14:20*	*11/19/20 12:00*	*400*
Dibromofluoromethane (Surr)	*98*		*60 - 140*	*11/17/20 14:20*	*11/19/20 12:00*	*400*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	100000	28000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
1,1,2,2-Tetrachloroethane	ND	H	100000	16000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
1,1,2-Trichloroethane	ND	H	100000	21000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	100000	50000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
1,1-Dichloroethane	ND	H	100000	31000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
1,1-Dichloroethene	ND	H	100000	34000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
1,2,4-Trichlorobenzene	ND	H	100000	38000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
1,2-Dibromo-3-Chloropropane	ND	H	100000	50000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
1,2-Dichlorobenzene	ND	H	100000	25000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
1,2-Dichloroethane	ND	H	100000	41000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
1,2-Dichloropropane	ND	H	100000	16000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
1,3-Dichlorobenzene	ND	H	100000	27000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
1,4-Dichlorobenzene	ND	H	100000	14000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
2-Butanone (MEK)	ND	H	500000	300000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
2-Hexanone	ND	H	500000	200000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
4-Methyl-2-pentanone (MIBK)	ND	H	500000	32000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Acetone	ND	H	500000	410000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Benzene	**2000000**	**H**	100000	19000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Bromodichloromethane	ND	H	100000	20000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Bromoform	ND	H	100000	50000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Bromomethane	ND	H	100000	22000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Carbon disulfide	ND	H	100000	45000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Carbon tetrachloride	ND	H	100000	25000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Chlorobenzene	ND	H	100000	13000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Dibromochloromethane	ND	H	100000	48000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Chloroethane	ND	H	100000	21000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Chloroform	ND	H	100000	68000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Chloromethane	ND	H	100000	24000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
cis-1,2-Dichloroethene	ND	H	100000	27000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
cis-1,3-Dichloropropene	ND	H	100000	24000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Cyclohexane	ND	H	100000	22000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Dichlorodifluoromethane	ND	H	100000	43000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Ethylbenzene	**6500000**	**H**	100000	29000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
1,2-Dibromoethane	ND	H	100000	17000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Isopropylbenzene	**190000**	**H**	100000	15000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Methyl acetate	ND	H	500000	47000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Methyl tert-butyl ether	ND	H	100000	38000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Methylcyclohexane	ND	H	100000	47000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Methylene Chloride	ND	H	100000	20000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Styrene	**450000**	**H**	100000	24000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Tetrachloroethene	ND	H	100000	13000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Toluene	**4100000**	**H**	100000	27000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
trans-1,2-Dichloroethene	ND	H	100000	24000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000

Client Sample ID: MW-100 DNAPL
Lab Sample ID: 480-177853-5

Date Collected: 11/05/20 12:00
Matrix: Waste
Date Received: 11/06/20 11:30

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND	H	100000	9800	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Trichloroethene	ND	H	100000	28000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Trichlorofluoromethane	ND	H	100000	47000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Vinyl chloride	ND	H	100000	33000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000
Xylenes, Total	**4400000**	**H**	200000	55000	ug/Kg		11/17/20 14:20	11/23/20 05:56	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*50 - 149*	*11/17/20 14:20*	*11/23/20 05:56*	*1000*
1,2-Dichloroethane-d4 (Surr)	*106*		*53 - 146*	*11/17/20 14:20*	*11/23/20 05:56*	*1000*
4-Bromofluorobenzene (Surr)	*105*		*49 - 148*	*11/17/20 14:20*	*11/23/20 05:56*	*1000*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*11/17/20 14:20*	*11/23/20 05:56*	*1000*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**5200000**		3600000	540000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
bis (2-chloroisopropyl) ether	ND		3600000	730000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
2,4,5-Trichlorophenol	ND		3600000	990000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
2,4,6-Trichlorophenol	ND		3600000	730000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
2,4-Dichlorophenol	ND		3600000	390000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
2,4-Dimethylphenol	ND		3600000	880000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
2,4-Dinitrophenol	ND		36000000	17000000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
2,4-Dinitrotoluene	ND		3600000	750000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
2,6-Dinitrotoluene	ND		3600000	430000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
2-Chloronaphthalene	ND		3600000	600000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
2-Chlorophenol	ND		3600000	660000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
2-Methylphenol	ND		3600000	430000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
2-Methylnaphthalene	**41000000**		3600000	730000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
2-Nitroaniline	ND		7100000	540000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
2-Nitrophenol	ND		3600000	1000000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
3,3'-Dichlorobenzidine	ND		7100000	4300000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
3-Nitroaniline	ND		7100000	1000000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
4,6-Dinitro-2-methylphenol	ND		7100000	3600000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
4-Bromophenyl phenyl ether	ND		3600000	510000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
4-Chloro-3-methylphenol	ND		3600000	900000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
4-Chloroaniline	ND		3600000	900000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
4-Chlorophenyl phenyl ether	ND		3600000	450000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
4-Methylphenol	ND		7100000	430000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
4-Nitroaniline	ND		7100000	1900000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
4-Nitrophenol	ND		7100000	2600000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Acenaphthene	**4500000**		3600000	540000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Acenaphthylene	**14000000**		3600000	470000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Acetophenone	ND		3600000	490000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Anthracene	**7700000**		3600000	900000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Atrazine	ND	*	3600000	1300000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Benzaldehyde	ND		3600000	2900000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Benzo[a]anthracene	**3900000**		3600000	360000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Benzo[a]pyrene	**4500000**		3600000	540000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Benzo[b]fluoranthene	**2200000**	**J**	3600000	580000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Benzo[g,h,i]perylene	**2300000**	**J ***	3600000	390000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Benzo[k]fluoranthene	**1200000**	**J**	3600000	470000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100

Client Sample ID: MW-100 DNAPL
Lab Sample ID: 480-177853-5

Date Collected: 11/05/20 12:00
Matrix: Waste

Date Received: 11/06/20 11:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		3600000	770000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Bis(2-chloroethyl)ether	ND		3600000	470000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Bis(2-ethylhexyl) phthalate	ND		3600000	1200000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Butyl benzyl phthalate	ND		3600000	600000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Caprolactam	ND		3600000	1100000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Carbazole	ND		3600000	430000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Chrysene	**3400000**	**J**	3600000	810000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Dibenz(a,h)anthracene	ND	*	3600000	640000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Di-n-butyl phthalate	ND		3600000	620000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Di-n-octyl phthalate	ND		3600000	430000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Dibenzofuran	**1400000**	**J**	3600000	430000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Diethyl phthalate	ND		3600000	470000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Dimethyl phthalate	ND		3600000	430000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Fluoranthene	**8100000**		3600000	390000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Fluorene	**7800000**		3600000	430000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Hexachlorobenzene	ND	*	3600000	490000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Hexachlorobutadiene	ND	*	3600000	540000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Hexachlorocyclopentadiene	ND		3600000	490000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Hexachloroethane	ND		3600000	470000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Indeno[1,2,3-cd]pyrene	**1500000**	**J ***	3600000	450000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Isophorone	ND		3600000	770000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
N-Nitrosodi-n-propylamine	ND		3600000	620000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
N-Nitrosodiphenylamine	ND		3600000	3000000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Naphthalene	**71000000**		3600000	470000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Nitrobenzene	ND		3600000	410000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Pentachlorophenol	ND		7100000	3600000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Phenanthrene	**27000000**		3600000	540000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Phenol	ND		3600000	560000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100
Pyrene	**14000000**		3600000	430000	ug/Kg		11/19/20 07:09	11/24/20 01:14	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*0*	*X*	*53 - 120*	*11/19/20 07:09*	*11/24/20 01:14*	*100*
Phenol-d5 (Surr)	*0*	*X*	*54 - 120*	*11/19/20 07:09*	*11/24/20 01:14*	*100*
p-Terphenyl-d14 (Surr)	*0*	*X*	*79 - 130*	*11/19/20 07:09*	*11/24/20 01:14*	*100*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*54 - 120*	*11/19/20 07:09*	*11/24/20 01:14*	*100*
2-Fluorobiphenyl (Surr)	*105*		*60 - 120*	*11/19/20 07:09*	*11/24/20 01:14*	*100*
2-Fluorophenol (Surr)	*0*	*X*	*52 - 120*	*11/19/20 07:09*	*11/24/20 01:14*	*100*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.8	0.75	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
4,4'-DDE	ND		3.8	1.1	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
4,4'-DDT	**1.7**	**J**	3.8	0.85	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
Aldrin	ND		3.8	0.39	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
alpha-BHC	ND		3.8	0.69	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
cis-Chlordane	ND		3.8	1.9	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
beta-BHC	ND		3.8	2.8	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
delta-BHC	ND		3.8	0.51	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
Dieldrin	ND		3.8	0.92	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
Endosulfan I	ND		3.8	0.82	mg/Kg		11/19/20 07:03	11/20/20 11:32	10

Client Sample ID: MW-100 DNAPL
Lab Sample ID: 480-177853-5

Date Collected: 11/05/20 12:00
Matrix: Waste

Date Received: 11/06/20 11:30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	ND		3.8	0.69	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
Endosulfan sulfate	ND		3.8	0.72	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
Endrin	ND		3.8	1.2	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
Endrin aldehyde	ND		3.8	0.98	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
Endrin ketone	ND		3.8	0.92	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
gamma-BHC (Lindane)	ND		3.8	2.8	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
trans-Chlordane	ND		3.8	0.53	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
Heptachlor	ND		3.8	0.60	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
Heptachlor epoxide	ND		3.8	1.0	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
Methoxychlor	**3.7**	**J**	3.8	1.0	mg/Kg		11/19/20 07:03	11/20/20 11:32	10
Toxaphene	ND		38	22	mg/Kg		11/19/20 07:03	11/20/20 11:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X*	*45 - 120*	*11/19/20 07:03*	*11/20/20 11:32*	*10*
DCB Decachlorobiphenyl	*0*	*X*	*45 - 120*	*11/19/20 07:03*	*11/20/20 11:32*	*10*
Tetrachloro-m-xylene	*90*		*30 - 124*	*11/19/20 07:03*	*11/20/20 11:32*	*10*
Tetrachloro-m-xylene	*90*		*30 - 124*	*11/19/20 07:03*	*11/20/20 11:32*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		33	6.5	mg/Kg		11/19/20 07:13	11/19/20 23:02	10
PCB-1221	ND		33	6.5	mg/Kg		11/19/20 07:13	11/19/20 23:02	10
PCB-1232	ND		33	6.5	mg/Kg		11/19/20 07:13	11/19/20 23:02	10
PCB-1242	ND		33	6.5	mg/Kg		11/19/20 07:13	11/19/20 23:02	10
PCB-1248	ND		33	6.5	mg/Kg		11/19/20 07:13	11/19/20 23:02	10
PCB-1254	ND		33	1.6	mg/Kg		11/19/20 07:13	11/19/20 23:02	10
PCB-1260	ND		33	1.6	mg/Kg		11/19/20 07:13	11/19/20 23:02	10
PCB-1262	ND		33	1.6	mg/Kg		11/19/20 07:13	11/19/20 23:02	10
PCB-1268	ND		33	1.6	mg/Kg		11/19/20 07:13	11/19/20 23:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*99*		*60 - 154*	*11/19/20 07:13*	*11/19/20 23:02*	*10*
Tetrachloro-m-xylene (Surr)	*90*		*60 - 154*	*11/19/20 07:13*	*11/19/20 23:02*	*10*
DCB Decachlorobiphenyl (Surr)	*118*		*65 - 174*	*11/19/20 07:13*	*11/19/20 23:02*	*10*
DCB Decachlorobiphenyl (Surr)	*148*		*65 - 174*	*11/19/20 07:13*	*11/19/20 23:02*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**23.9**		9.9	4.4	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Antimony	ND		14.9	0.40	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Arsenic	**0.93**	**J**	2.0	0.40	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Barium	**0.58**	**^**	0.50	0.11	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Beryllium	ND		0.20	0.028	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Cadmium	ND		0.20	0.030	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Calcium	**105**	**B**	49.6	3.3	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Chromium	**0.25**	**J**	0.50	0.20	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Cobalt	ND		0.50	0.050	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Copper	**0.52**	**J**	0.99	0.21	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Iron	**39.7**		9.9	3.5	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Lead	**0.64**	**J**	0.99	0.24	mg/Kg		11/19/20 09:19	11/19/20 19:35	1

Client: New York State D.E.C.
Job ID: 480-177853-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: MW-100 DNAPL
Lab Sample ID: 480-177853-5
Date Collected: 11/05/20 12:00
Matrix: Waste
Date Received: 11/06/20 11:30

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**34.4**		19.8	0.92	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Manganese	**0.78**		0.20	0.032	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Nickel	ND		5.0	0.23	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Potassium	ND		29.8	19.8	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Selenium	ND		4.0	0.40	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Silver	ND		0.60	0.20	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Sodium	ND		139	12.9	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Thallium	ND		6.0	0.30	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Vanadium	**0.50**		0.50	0.11	mg/Kg		11/19/20 09:19	11/19/20 19:35	1
Zinc	**0.89**	**J**	2.0	0.63	mg/Kg		11/19/20 09:19	11/19/20 19:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.023	0.0093	mg/Kg		11/17/20 16:31	11/17/20 19:58	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Gravity	**1.0275**		0.1000	0.1000	g/mL			11/18/20 14:00	1

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Peter Zaffram	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-152810-29904.1
Client Contact: Mr. Glenn May	Phone: (716) 553-5129	E-Mail: Orlette.Johnson@Eurofinset.com		Page: Page 1 of 1
Company: New York State D.E.C.				Job #:
Address: 270 Michigan Avenue	Due Date Requested:			
City: Buffalo	TAT Requested (days):			
State, Zip: NY, 14203				
Phone:	PO #: CallOut ID: 137113			
Email: glenn.may@dec.ny.gov	WO #:			
Project Name: 31 Tonawanda St. - OffSite C915299A	Project #: 48020532			
Site: GES JOB# C90186-02-210	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - TCL SVOA - OLM04.2	8260C - TCL list OLM04.2	8082A - TCL PCBs - SOM01.0	8081B - TCL Pesticides - OLM04.2	6010C, 7470A	8270D_SIM_M6_ID - 1,4-dioxane	PEC_IDA - PFAS, Standard List (24 Analytes)	Specific Gravity	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	N	N	D	N	N			
MW-8R	11/5/20	0925	G	Water			X	X	X	X	X					Wrong Date might Be on Sample
MW-100	11/5/20	1135	G	Water			X	X	X	X	X					"
MW-103	11/5/20	1405	G	Water			X	X	X	X	X					"
MW-106	11/5/20	1515	G	Water			X	X	X	X	X					"
				Water												
MW-100 DNAPL (JAR1)	11/5/20	1200	G	Water			X	X	X	X	X			X		Product Samples / May Be HAZ. Please Run as one Sample 2 Jars were Taken for Volume. Jar 2 has more Sediment. Thanks
MW-100 DNAPL (JAR2)	11/5/20	1200	G	Water												
				Water												
				W												
				W												
				W												

480-177853 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

samples are retained longer than 1 month)
☐ Disposal by Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 11/5/20 1745	Company	Received by:	Date/Time: 11/6/20 10:a	Company TAN
Relinquished by:	Date/Time: 11/6/20 11:30	Company DAB	Received by:	Date/Time: 11/6/20 1130	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.9# 1 ICE

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-180232-1
Client Project/Site: 31 Tonawanda St. - OffSite C915299A
Revision: 1

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, New York 14203

Attn: Mr. Glenn May

Authorized for release by:
3/19/2021 5:00:01 PM

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Orlette Johnson
Senior Project Manager
3/19/2021 5:00:01 PM

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-180232-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-180232-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-180232-1

Receipt
Data are revised to remove the double Silver reporting in the LCSSRM sample.

Receipt
The samples were received on 1/14/2021 3:45 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
Method 8260C: The following samples were analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: MW-100 (480-180232-1), MW-8 (480-180232-2) and MW-5R (480-180232-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-567076 recovered outside acceptance criteria, low biased, for 2-Hexanone, 4-Methyl-2-pentanone (MIBK) and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-567200 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-5R (480-180232-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to the abundance of target analytes: MW-100 (480-180232-1), MW-8 (480-180232-2) and MW-5R (480-180232-3). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: The continuing calibration verification (CCV) associated with batch 480-566895 recovered above the upper control limit for 4,4'-DDT and Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-100 (480-180232-1) and MW-8 (480-180232-2).

Method 8081B: The following samples were diluted due to the nature of the sample matrix: MW-100 (480-180232-1), MW-8 (480-180232-2) and MW-5R (480-180232-3). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: MW-100 (480-180232-1), MW-8 (480-180232-2) and MW-5R (480-180232-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. MW-100 (480-180232-1), MW-8 (480-180232-2), MW-5R (480-180232-3), (LCSSRM 480-566911/2-A) and (MB 480-566911/1-A)

Method 6010C: The continuing calibration verification (CCV 480-567264/45) recovered above the upper control limit for Total Antimony. The samples MW-100 (480-180232-1), MW-8 (480-180232-2) and MW-5R (480-180232-3) associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Job ID: 480-180232-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3580A: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: MW-100 (480-180232-1), MW-8 (480-180232-2) and MW-5R (480-180232-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: New York State D.E.C.
Job ID: 480-180232-1
Project/Site: 31 Tonawanda St. - OffSite C915299A

Client Sample ID: MW-100
Lab Sample ID: 480-180232-1
Date Collected: 01/14/21 11:30
Matrix: Waste
Date Received: 01/14/21 15:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40000	11000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
1,1,2,2-Tetrachloroethane	ND		40000	6500	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
1,1,2-Trichloroethane	ND		40000	8400	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40000	20000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
1,1-Dichloroethane	ND		40000	12000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
1,1-Dichloroethene	ND		40000	14000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
1,2,4-Trichlorobenzene	ND		40000	15000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
1,2-Dibromo-3-Chloropropane	ND		40000	20000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
1,2-Dichlorobenzene	ND		40000	10000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
1,2-Dichloroethane	ND		40000	16000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
1,2-Dichloropropane	ND		40000	6500	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
1,3-Dichlorobenzene	ND		40000	11000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
1,4-Dichlorobenzene	ND		40000	5600	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
2-Butanone (MEK)	ND		200000	120000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
2-Hexanone	ND		200000	82000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
4-Methyl-2-pentanone (MIBK)	ND		200000	13000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Acetone	ND		200000	160000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Benzene	**1000000**		40000	7600	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Bromodichloromethane	ND		40000	8000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Bromoform	ND		40000	20000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Bromomethane	ND		40000	8800	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Carbon disulfide	ND		40000	18000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Carbon tetrachloride	ND		40000	10000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Chlorobenzene	ND		40000	5300	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Dibromochloromethane	ND		40000	19000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Chloroethane	ND		40000	8300	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Chloroform	ND		40000	27000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Chloromethane	ND		40000	9500	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
cis-1,2-Dichloroethene	ND		40000	11000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
cis-1,3-Dichloropropene	ND		40000	9600	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Cyclohexane	ND		40000	8900	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Dichlorodifluoromethane	ND		40000	17000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Ethylbenzene	**6300000**	**E**	40000	12000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
1,2-Dibromoethane	ND		40000	7000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Isopropylbenzene	**330000**		40000	6000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Methyl acetate	ND		200000	19000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Methyl tert-butyl ether	ND		40000	15000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Methylcyclohexane	ND		40000	19000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Methylene Chloride	**21000**	**J B**	40000	7900	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Styrene	ND		40000	9600	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Tetrachloroethene	ND		40000	5400	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Toluene	**840000**		40000	11000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
trans-1,2-Dichloroethene	ND		40000	9400	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
trans-1,3-Dichloropropene	ND		40000	3900	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Trichloroethene	ND		40000	11000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Trichlorofluoromethane	ND		40000	19000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Vinyl chloride	ND		40000	13000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400
Xylenes, Total	**4000000**		80000	22000	ug/Kg		01/20/21 09:44	01/21/21 15:32	400

Client Sample ID: MW-100
Lab Sample ID: 480-180232-1
Date Collected: 01/14/21 11:30
Matrix: Waste
Date Received: 01/14/21 15:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		50 - 149	01/20/21 09:44	01/21/21 15:32	400
1,2-Dichloroethane-d4 (Surr)	100		53 - 146	01/20/21 09:44	01/21/21 15:32	400
4-Bromofluorobenzene (Surr)	97		49 - 148	01/20/21 09:44	01/21/21 15:32	400
Dibromofluoromethane (Surr)	97		60 - 140	01/20/21 09:44	01/21/21 15:32	400

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100000	28000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
1,1,2,2-Tetrachloroethane	ND		100000	16000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
1,1,2-Trichloroethane	ND		100000	21000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100000	50000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
1,1-Dichloroethane	ND		100000	31000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
1,1-Dichloroethene	ND		100000	35000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
1,2,4-Trichlorobenzene	ND		100000	38000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
1,2-Dibromo-3-Chloropropane	ND		100000	50000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
1,2-Dichlorobenzene	ND		100000	26000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
1,2-Dichloroethane	ND		100000	41000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
1,2-Dichloropropane	ND		100000	16000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
1,3-Dichlorobenzene	ND		100000	27000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
1,4-Dichlorobenzene	ND		100000	14000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
2-Butanone (MEK)	ND		500000	300000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
2-Hexanone	ND		500000	210000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
4-Methyl-2-pentanone (MIBK)	ND		500000	32000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Acetone	ND		500000	410000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Benzene	**940000**		100000	19000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Bromodichloromethane	ND		100000	20000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Bromoform	ND		100000	50000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Bromomethane	ND		100000	22000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Carbon disulfide	ND		100000	46000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Carbon tetrachloride	ND		100000	26000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Chlorobenzene	ND		100000	13000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Dibromochloromethane	ND		100000	48000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Chloroethane	ND		100000	21000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Chloroform	ND		100000	69000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Chloromethane	ND		100000	24000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
cis-1,2-Dichloroethene	ND		100000	28000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
cis-1,3-Dichloropropene	ND		100000	24000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Cyclohexane	ND		100000	22000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Dichlorodifluoromethane	ND		100000	44000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Ethylbenzene	**6400000**		100000	29000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
1,2-Dibromoethane	ND		100000	18000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Isopropylbenzene	**330000**		100000	15000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Methyl acetate	ND		500000	48000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Methyl tert-butyl ether	ND		100000	38000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Methylcyclohexane	ND		100000	47000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Methylene Chloride	ND		100000	20000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Styrene	ND		100000	24000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Tetrachloroethene	ND		100000	13000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Toluene	**830000**		100000	27000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
trans-1,2-Dichloroethene	ND		100000	24000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000

Client Sample ID: MW-100
Date Collected: 01/14/21 11:30
Date Received: 01/14/21 15:45

Lab Sample ID: 480-180232-1
Matrix: Waste

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		100000	9800	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Trichloroethene	ND		100000	28000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Trichlorofluoromethane	ND		100000	47000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Vinyl chloride	ND		100000	34000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000
Xylenes, Total	**4200000**		200000	55000	ug/Kg		01/20/21 09:44	01/24/21 17:42	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*50 - 149*	*01/20/21 09:44*	*01/24/21 17:42*	*1000*
1,2-Dichloroethane-d4 (Surr)	*103*		*53 - 146*	*01/20/21 09:44*	*01/24/21 17:42*	*1000*
4-Bromofluorobenzene (Surr)	*102*		*49 - 148*	*01/20/21 09:44*	*01/24/21 17:42*	*1000*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*01/20/21 09:44*	*01/24/21 17:42*	*1000*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**5800000**		730000	110000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
bis (2-chloroisopropyl) ether	ND		730000	150000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
2,4,5-Trichlorophenol	ND		730000	200000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
2,4,6-Trichlorophenol	ND		730000	150000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
2,4-Dichlorophenol	ND		730000	77000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
2,4-Dimethylphenol	ND		730000	180000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
2,4-Dinitrophenol	ND		7100000	3400000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
2,4-Dinitrotoluene	ND		730000	150000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
2,6-Dinitrotoluene	ND		730000	86000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
2-Chloronaphthalene	ND		730000	120000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
2-Chlorophenol	ND		730000	130000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
2-Methylphenol	ND		730000	86000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
2-Methylnaphthalene	**39000000**	**E**	730000	150000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
2-Nitroaniline	ND		1400000	110000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
2-Nitrophenol	ND		730000	210000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
3,3'-Dichlorobenzidine	ND		1400000	860000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
3-Nitroaniline	ND		1400000	200000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
4,6-Dinitro-2-methylphenol	ND		1400000	730000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
4-Bromophenyl phenyl ether	ND		730000	100000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
4-Chloro-3-methylphenol	ND		730000	180000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
4-Chloroaniline	ND		730000	180000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
4-Chlorophenyl phenyl ether	ND		730000	90000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
4-Methylphenol	ND		1400000	86000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
4-Nitroaniline	ND		1400000	380000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
4-Nitrophenol	ND		1400000	510000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Acenaphthene	**13000000**		730000	110000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Acenaphthylene	**6800000**		730000	94000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Acetophenone	ND		730000	99000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Anthracene	**8400000**		730000	180000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Atrazine	ND		730000	250000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Benzaldehyde	ND		730000	580000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Benzo[a]anthracene	**4500000**		730000	73000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Benzo[a]pyrene	**4900000**		730000	110000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Benzo[b]fluoranthene	**2700000**		730000	120000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Benzo[g,h,i]perylene	**2000000**		730000	77000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Benzo[k]fluoranthene	**1500000**		730000	94000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20

Client Sample ID: MW-100
Date Collected: 01/14/21 11:30
Date Received: 01/14/21 15:45

Lab Sample ID: 480-180232-1
Matrix: Waste

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		730000	150000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Bis(2-chloroethyl)ether	ND		730000	94000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Bis(2-ethylhexyl) phthalate	ND		730000	250000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Butyl benzyl phthalate	ND		730000	120000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Caprolactam	ND		730000	220000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Carbazole	**110000**	**J**	730000	86000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Chrysene	**3900000**		730000	160000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Dibenz(a,h)anthracene	**440000**	**J**	730000	130000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Di-n-butyl phthalate	ND		730000	120000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Di-n-octyl phthalate	ND		730000	86000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Dibenzofuran	**1300000**		730000	86000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Diethyl phthalate	ND		730000	94000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Dimethyl phthalate	ND		730000	86000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Fluoranthene	**7800000**		730000	77000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Fluorene	**7900000**		730000	86000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Hexachlorobenzene	ND		730000	99000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Hexachlorobutadiene	ND		730000	110000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Hexachlorocyclopentadiene	ND		730000	99000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Hexachloroethane	ND		730000	94000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Indeno[1,2,3-cd]pyrene	**1400000**		730000	90000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Isophorone	ND		730000	150000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
N-Nitrosodi-n-propylamine	ND		730000	120000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
N-Nitrosodiphenylamine	ND		730000	590000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Naphthalene	**61000000**	**E**	730000	94000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Nitrobenzene	ND		730000	81000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Pentachlorophenol	ND		1400000	730000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Phenanthrene	**26000000**	**E**	730000	110000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Phenol	ND		730000	110000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20
Pyrene	**15000000**		730000	86000	ug/Kg		01/21/21 07:21	01/22/21 20:09	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*88*		*53 - 120*	*01/21/21 07:21*	*01/22/21 20:09*	*20*
Phenol-d5 (Surr)	*98*		*54 - 120*	*01/21/21 07:21*	*01/22/21 20:09*	*20*
p-Terphenyl-d14 (Surr)	*120*		*79 - 130*	*01/21/21 07:21*	*01/22/21 20:09*	*20*
2,4,6-Tribromophenol (Surr)	*110*		*54 - 120*	*01/21/21 07:21*	*01/22/21 20:09*	*20*
2-Fluorobiphenyl (Surr)	*93*		*60 - 120*	*01/21/21 07:21*	*01/22/21 20:09*	*20*
2-Fluorophenol (Surr)	*100*		*52 - 120*	*01/21/21 07:21*	*01/22/21 20:09*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	**5300000**		3600000	540000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
bis (2-chloroisopropyl) ether	ND		3600000	730000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
2,4,5-Trichlorophenol	ND		3600000	990000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
2,4,6-Trichlorophenol	ND		3600000	730000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
2,4-Dichlorophenol	ND		3600000	390000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
2,4-Dimethylphenol	ND		3600000	880000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
2,4-Dinitrophenol	ND		36000000	17000000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
2,4-Dinitrotoluene	ND		3600000	750000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
2,6-Dinitrotoluene	ND		3600000	430000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
2-Chloronaphthalene	ND		3600000	600000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100

Client Sample ID: MW-100
Date Collected: 01/14/21 11:30
Date Received: 01/14/21 15:45

Lab Sample ID: 480-180232-1
Matrix: Waste

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		3600000	660000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
2-Methylphenol	ND		3600000	430000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
2-Methylnaphthalene	**42000000**		3600000	730000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
2-Nitroaniline	ND		7100000	540000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
2-Nitrophenol	ND		3600000	1000000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
3,3'-Dichlorobenzidine	ND		7100000	4300000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
3-Nitroaniline	ND		7100000	1000000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
4,6-Dinitro-2-methylphenol	ND		7100000	3600000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
4-Bromophenyl phenyl ether	ND		3600000	510000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
4-Chloro-3-methylphenol	ND		3600000	900000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
4-Chloroaniline	ND		3600000	900000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
4-Chlorophenyl phenyl ether	ND		3600000	450000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
4-Methylphenol	ND		7100000	430000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
4-Nitroaniline	ND		7100000	1900000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
4-Nitrophenol	ND		7100000	2600000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Acenaphthene	**13000000**		3600000	540000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Acenaphthylene	**6400000**		3600000	470000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Acetophenone	ND		3600000	490000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Anthracene	**8100000**		3600000	900000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Atrazine	ND		3600000	1300000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Benzaldehyde	ND		3600000	2900000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Benzo[a]anthracene	**4400000**		3600000	360000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Benzo[a]pyrene	**4500000**		3600000	540000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Benzo[b]fluoranthene	**2700000**	**J**	3600000	580000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Benzo[g,h,i]perylene	**1700000**	**J**	3600000	390000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Benzo[k]fluoranthene	**1300000**	**J**	3600000	470000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Bis(2-chloroethoxy)methane	ND		3600000	770000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Bis(2-chloroethyl)ether	ND		3600000	470000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Bis(2-ethylhexyl) phthalate	ND		3600000	1200000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Butyl benzyl phthalate	ND		3600000	600000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Caprolactam	ND		3600000	1100000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Carbazole	ND		3600000	430000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Chrysene	**3700000**		3600000	810000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Dibenz(a,h)anthracene	ND		3600000	640000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Di-n-butyl phthalate	ND		3600000	620000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Di-n-octyl phthalate	ND		3600000	430000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Dibenzofuran	**1000000**	**J**	3600000	430000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Diethyl phthalate	ND		3600000	470000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Dimethyl phthalate	ND		3600000	430000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Fluoranthene	**7700000**		3600000	390000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Fluorene	**7500000**		3600000	430000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Hexachlorobenzene	ND		3600000	490000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Hexachlorobutadiene	ND		3600000	540000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Hexachlorocyclopentadiene	ND		3600000	490000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Hexachloroethane	ND		3600000	470000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Indeno[1,2,3-cd]pyrene	**1300000**	**J**	3600000	450000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Isophorone	ND		3600000	770000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
N-Nitrosodi-n-propylamine	ND		3600000	620000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
N-Nitrosodiphenylamine	ND		3600000	3000000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100

Client Sample ID: MW-100
Date Collected: 01/14/21 11:30
Date Received: 01/14/21 15:45

Lab Sample ID: 480-180232-1
Matrix: Waste

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**74000000**		3600000	470000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Nitrobenzene	ND		3600000	410000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Pentachlorophenol	ND		7100000	3600000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Phenanthrene	**28000000**		3600000	540000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Phenol	ND		3600000	560000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100
Pyrene	**15000000**		3600000	430000	ug/Kg		01/21/21 07:21	01/25/21 11:10	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*53 - 120*	*01/21/21 07:21*	*01/25/21 11:10*	*100*
Phenol-d5 (Surr)	*0*	*S1-*	*54 - 120*	*01/21/21 07:21*	*01/25/21 11:10*	*100*
p-Terphenyl-d14 (Surr)	*111*		*79 - 130*	*01/21/21 07:21*	*01/25/21 11:10*	*100*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*54 - 120*	*01/21/21 07:21*	*01/25/21 11:10*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*60 - 120*	*01/21/21 07:21*	*01/25/21 11:10*	*100*
2-Fluorophenol (Surr)	*0*	*S1-*	*52 - 120*	*01/21/21 07:21*	*01/25/21 11:10*	*100*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		7.1	1.4	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
4,4'-DDE	ND		7.1	2.0	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
4,4'-DDT	**2.1**	**J B**	7.1	1.6	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
Aldrin	ND		7.1	0.73	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
alpha-BHC	ND		7.1	1.3	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
cis-Chlordane	ND		7.1	3.6	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
beta-BHC	ND		7.1	5.1	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
delta-BHC	ND		7.1	0.94	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
Dieldrin	ND		7.1	1.7	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
Endosulfan I	ND		7.1	1.5	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
Endosulfan II	ND		7.1	1.3	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
Endosulfan sulfate	ND		7.1	1.3	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
Endrin	ND		7.1	2.3	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
Endrin aldehyde	ND		7.1	1.8	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
Endrin ketone	ND		7.1	1.7	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
gamma-BHC (Lindane)	ND		7.1	5.1	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
trans-Chlordane	ND		7.1	0.99	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
Heptachlor	ND		7.1	1.1	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
Heptachlor epoxide	ND		7.1	1.9	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
Methoxychlor	**4.5**	**J**	7.1	1.9	mg/Kg		01/21/21 07:18	01/21/21 15:34	20
Toxaphene	ND		71	41	mg/Kg		01/21/21 07:18	01/21/21 15:34	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*01/21/21 07:18*	*01/21/21 15:34*	*20*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*01/21/21 07:18*	*01/21/21 15:34*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*01/21/21 07:18*	*01/21/21 15:34*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*01/21/21 07:18*	*01/21/21 15:34*	*20*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		56	11	mg/Kg		01/21/21 07:14	01/21/21 23:02	20
PCB-1221	ND		56	11	mg/Kg		01/21/21 07:14	01/21/21 23:02	20
PCB-1232	ND		56	11	mg/Kg		01/21/21 07:14	01/21/21 23:02	20

Client Sample ID: MW-100
Date Collected: 01/14/21 11:30
Date Received: 01/14/21 15:45

Lab Sample ID: 480-180232-1
Matrix: Waste

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		56	11	mg/Kg		01/21/21 07:14	01/21/21 23:02	20
PCB-1248	ND		56	11	mg/Kg		01/21/21 07:14	01/21/21 23:02	20
PCB-1254	ND		56	2.6	mg/Kg		01/21/21 07:14	01/21/21 23:02	20
PCB-1260	ND		56	2.6	mg/Kg		01/21/21 07:14	01/21/21 23:02	20
PCB-1262	ND		56	2.6	mg/Kg		01/21/21 07:14	01/21/21 23:02	20
PCB-1268	ND		56	2.6	mg/Kg		01/21/21 07:14	01/21/21 23:02	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*131*		*60 - 154*	*01/21/21 07:14*	*01/21/21 23:02*	*20*
Tetrachloro-m-xylene (Surr)	*104*		*60 - 154*	*01/21/21 07:14*	*01/21/21 23:02*	*20*
DCB Decachlorobiphenyl (Surr)	*180*	*S1+*	*65 - 174*	*01/21/21 07:14*	*01/21/21 23:02*	*20*
DCB Decachlorobiphenyl (Surr)	*89*		*65 - 174*	*01/21/21 07:14*	*01/21/21 23:02*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**35.5**	**B**	9.9	4.3	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Antimony	ND	^+	14.8	0.40	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Arsenic	**1.3**	**J**	2.0	0.40	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Barium	**0.77**	**^6+**	0.49	0.11	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Beryllium	ND		0.20	0.028	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Cadmium	ND		0.20	0.030	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Calcium	**205**	**B**	49.4	3.3	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Chromium	**0.36**	**J**	0.49	0.20	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Cobalt	ND		0.49	0.049	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Copper	**0.88**	**J**	0.99	0.21	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Iron	**65.3**	**B**	9.9	3.5	mg/Kg		01/22/21 15:09	01/27/21 17:24	1
Lead	**1.2**		0.99	0.24	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Magnesium	**72.1**	**B**	19.8	0.92	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Manganese	**1.5**	**B**	0.20	0.032	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Nickel	ND		4.9	0.23	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Potassium	**21.4**	**J**	29.6	19.8	mg/Kg		01/22/21 15:09	01/26/21 22:04	1
Selenium	ND		4.0	0.40	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Silver	ND		0.59	0.20	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Sodium	**16.2**	**J**	138	12.8	mg/Kg		01/22/21 15:09	01/26/21 22:04	1
Thallium	ND		5.9	0.30	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Vanadium	**0.55**		0.49	0.11	mg/Kg		01/22/21 15:09	01/26/21 02:12	1
Zinc	**1.2**	**J**	2.0	0.63	mg/Kg		01/22/21 15:09	01/26/21 02:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.058	0.023	mg/Kg		01/26/21 12:01	01/26/21 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.95	0.46	mg/Kg		01/25/21 22:10	01/26/21 22:17	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Gravity	**1.0408**		0.1000	0.1000	g/mL			01/22/21 17:52	1

CHAIN OF CUSTODY

Client: New York State Dept. of Environm

PAGE OF

FED-EX Tracking #	Bottle Order Control #
Lab Quote #	Lab Job #

CLIENT/REPORTING INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
Groundwater & Environmental Services, Inc. 415 Lawrence Bell Drive, Williamsville, NY 14221 **Project Manager:** Thomas Palmer **Phone #:** 800-287-7857 PM Email: NERegion@gesonline.com fax **866-902-2187**	**Project Name:** NYSDEC/Buffalo/NY/TonawandaSt/31-Off-Site **Project Address:** 31 Tonawanda Street, Buffalo, NY **Project PSID #:** 871720	Groundwater & Environmental Services, Inc. ges-invoices@gesonline.com ATTN: Accounts Payable **Invoice Instructions (Project #/ Phase / Task / Altorg)** 0901816///1109

Sampler(s) Name: Peter Zaffram

Sampler(s) Name: Peter Zaffram

Lab Sample #	Field ID / Point of Collection (Sys_loc_code)	Depth Interval (ft)	Date Sampled	Time Sampled	Sampler	Matrix	Total # Bottles	number of preserved bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Amber	REQUESTED ANALYSIS (see Test Code sheet): TCL VOCs 8260C	TCL SVOCs 8270D	TCL Pesticides via USEPA 8081B	TCL PCBs USEPA 8082A	Metals USEPA 7470A	Specific Gravity ASTM D1429-87	Cyanide	LAB USE ONLY
	MW-100	-	1/14/21	1130	P.Z.	Product	5										X	X	X	X	X	X	X	
	MW-8	-	1/14/21	1245	P.Z	11	5										X	X	X	X	X	X	X	
	MW-5R	-	1/14/21	1400	P.Z.	11	5										X	X	X	X	X	X	X	



Turnaround Time (Business Days) **Approved By (Lab PM) / Date**

- ☑ Standard 14 Days
- ☐ 1 day RUSH
- ☐ Other _____

Laboratory Information

Lab: _____
Address: _____
Phone: _____
Lab PM: _____
Lab PM Email: _____

Data Deliverable Information

- ☐ Commercial 'A' (Level 1) = Results Only
- ☐ Commercial 'B' (Level 2) = Results + QC Summary
- ☐ FULLT1 (Level 3 & 4)
- ☐ NJ Reduced = Results + QC Summary + Partial Raw Data
- ☐ Commercial 'C'
- ☐ *NJ Data of Known Quality Protocol Reporting*
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☑ EDD Format _____
- ☐ Other _____

Please Email the EQ EDD Package to ges@equisonline.com

EQEDD Name: NYSDEC/Buffalo/NY/TonawandaSt/31-Off-Site_LabReport#.31078.EQEDD.zip

Sample Custody must be documented below each time samples change possession, including courier.		
Relinquished By Sampler: 1	Date / Time: 1 1/14/21 1545	Received By: 1
Relinquished By : 2	Date / Time: 2 1/14/21 1545	Received By: 2
Relinquished By : 3	Date / Time: 3	Received By: 3
Custody Seal Number: ☐ Intact ☐ Not Intact	☐ Preserved where applicable ☐ On Ice	Cooler Temp 2.8 #1

Please Run Samples with a Dense layer of Product, Bottom of Jars. Most

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3/19/2021 (Rev. 1)

SUB-SLAB SOIL VAPOR

2020 BE3
REMEDIAL INVESTIGATION/ ALTERNATIVES ANALYSIS REPORT

Centek Laboratories, LLC

Date: *16-Mar-20*

CLIENT:	BE3/Panamerican	**Client Sample ID:**	SS01
Lab Order:	C2003030	**Tag Number:**	1182,390
Project:	Fedders Loft	**Collection Date:**	3/5/2020
Lab ID:	C2003030-001A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	3/12/2020 7:10:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/12/2020 7:10:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	3/12/2020 7:10:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	3/12/2020 7:10:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/12/2020 7:10:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/12/2020 7:10:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/12/2020 7:10:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/12/2020 7:10:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 7:10:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	3/12/2020 7:10:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	3/12/2020 7:10:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/12/2020 7:10:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	3/12/2020 7:10:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 7:10:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 7:10:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/12/2020 7:10:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	3/12/2020 7:10:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	3/12/2020 7:10:00 PM
Acetone	8.8	7.1		ug/m3	10	3/12/2020 11:49:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	3/12/2020 7:10:00 PM
Benzene	0.80	0.48		ug/m3	1	3/12/2020 7:10:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	3/12/2020 7:10:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/12/2020 7:10:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	3/12/2020 7:10:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	3/12/2020 7:10:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/12/2020 7:10:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	3/12/2020 7:10:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	3/12/2020 7:10:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	3/12/2020 7:10:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	3/12/2020 7:10:00 PM
Chloromethane	0.87	0.31		ug/m3	1	3/12/2020 7:10:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/12/2020 7:10:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/12/2020 7:10:00 PM
Cyclohexane	1.5	0.52		ug/m3	1	3/12/2020 7:10:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/12/2020 7:10:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	3/12/2020 7:10:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	3/12/2020 7:10:00 PM
Freon 11	1.3	0.84		ug/m3	1	3/12/2020 7:10:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	3/12/2020 7:10:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	3/12/2020 7:10:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

PRELIMINARY

Centek Laboratories, LLC

Date: *16-Mar-20*

CLIENT:	BE3/Panamerican	**Client Sample ID:**	SS01
Lab Order:	C2003030	**Tag Number:**	1182,390
Project:	Fedders Loft	**Collection Date:**	3/5/2020
Lab ID:	C2003030-001A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.6	0.74		ug/m3	1	3/12/2020 7:10:00 PM
Heptane	2.0	0.61		ug/m3	1	3/12/2020 7:10:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/12/2020 7:10:00 PM
Hexane	2.5	0.53		ug/m3	1	3/12/2020 7:10:00 PM
Isopropyl alcohol	5.1	0.37		ug/m3	1	3/12/2020 7:10:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	3/12/2020 7:10:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/12/2020 7:10:00 PM
Methyl Ethyl Ketone	0.65	0.88	J	ug/m3	1	3/12/2020 7:10:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/12/2020 7:10:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	3/12/2020 7:10:00 PM
Methylene chloride	0.90	0.52		ug/m3	1	3/12/2020 7:10:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	3/12/2020 7:10:00 PM
Propylene	< 0.26	0.26		ug/m3	1	3/12/2020 7:10:00 PM
Styrene	< 0.64	0.64		ug/m3	1	3/12/2020 7:10:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/12/2020 7:10:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	3/12/2020 7:10:00 PM
Toluene	1.4	0.57		ug/m3	1	3/12/2020 7:10:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/12/2020 7:10:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/12/2020 7:10:00 PM
Trichloroethene	5.7	0.81		ug/m3	1	3/12/2020 7:10:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	3/12/2020 7:10:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	3/12/2020 7:10:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	3/12/2020 7:10:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

PRELIMINARY

Centek Laboratories, LLC

Date: *16-Mar-20*

CLIENT:	BE3/Panamerican	**Client Sample ID:**	SS02
Lab Order:	C2003030	**Tag Number:**	365,391
Project:	Fedders Loft	**Collection Date:**	3/5/2020
Lab ID:	C2003030-002A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	1.3	0.82		ug/m3	1	3/12/2020 7:57:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/12/2020 7:57:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	3/12/2020 7:57:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	3/12/2020 7:57:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/12/2020 7:57:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/12/2020 7:57:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/12/2020 7:57:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/12/2020 7:57:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 7:57:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	3/12/2020 7:57:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	3/12/2020 7:57:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/12/2020 7:57:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	3/12/2020 7:57:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 7:57:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 7:57:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/12/2020 7:57:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	3/12/2020 7:57:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	3/12/2020 7:57:00 PM
Acetone	31	7.1		ug/m3	10	3/13/2020 12:34:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	3/12/2020 7:57:00 PM
Benzene	5.8	0.48		ug/m3	1	3/12/2020 7:57:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	3/12/2020 7:57:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/12/2020 7:57:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	3/12/2020 7:57:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	3/12/2020 7:57:00 PM
Carbon disulfide	2.1	0.47		ug/m3	1	3/12/2020 7:57:00 PM
Carbon tetrachloride	2.8	0.94		ug/m3	1	3/12/2020 7:57:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	3/12/2020 7:57:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	3/12/2020 7:57:00 PM
Chloroform	0.63	0.73	J	ug/m3	1	3/12/2020 7:57:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	3/12/2020 7:57:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/12/2020 7:57:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/12/2020 7:57:00 PM
Cyclohexane	17	5.2		ug/m3	10	3/13/2020 12:34:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/12/2020 7:57:00 PM
Ethyl acetate	1.7	0.54		ug/m3	1	3/12/2020 7:57:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	3/12/2020 7:57:00 PM
Freon 11	1.1	0.84		ug/m3	1	3/12/2020 7:57:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	3/12/2020 7:57:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	3/12/2020 7:57:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

PRELIMINARY

Centek Laboratories, LLC

Date: *16-Mar-20*

CLIENT:	BE3/Panamerican	**Client Sample ID:**	SS02
Lab Order:	C2003030	**Tag Number:**	365,391
Project:	Fedders Loft	**Collection Date:**	3/5/2020
Lab ID:	C2003030-002A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.6	0.74		ug/m3	1	3/12/2020 7:57:00 PM
Heptane	16	6.1		ug/m3	10	3/13/2020 12:34:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/12/2020 7:57:00 PM
Hexane	19	5.3		ug/m3	10	3/13/2020 12:34:00 AM
Isopropyl alcohol	5.9	3.7		ug/m3	10	3/13/2020 12:34:00 AM
m&p-Xylene	0.74	1.3	J	ug/m3	1	3/12/2020 7:57:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/12/2020 7:57:00 PM
Methyl Ethyl Ketone	2.7	0.88		ug/m3	1	3/12/2020 7:57:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/12/2020 7:57:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	3/12/2020 7:57:00 PM
Methylene chloride	4.7	0.52		ug/m3	1	3/12/2020 7:57:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	3/12/2020 7:57:00 PM
Propylene	< 0.26	0.26		ug/m3	1	3/12/2020 7:57:00 PM
Styrene	< 0.64	0.64		ug/m3	1	3/12/2020 7:57:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/12/2020 7:57:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	3/12/2020 7:57:00 PM
Toluene	7.5	0.57		ug/m3	1	3/12/2020 7:57:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/12/2020 7:57:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/12/2020 7:57:00 PM
Trichloroethene	5.2	0.81		ug/m3	1	3/12/2020 7:57:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	3/12/2020 7:57:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	3/12/2020 7:57:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	3/12/2020 7:57:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

PRELIMINARY

Centek Laboratories, LLC

Date: *16-Mar-20*

CLIENT:	BE3/Panamerican	**Client Sample ID:**	SS03
Lab Order:	C2003030	**Tag Number:**	1318,397
Project:	Fedders Loft	**Collection Date:**	3/5/2020
Lab ID:	C2003030-003A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	0.65	0.82	J	ug/m3	1	3/12/2020 8:44:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/12/2020 8:44:00 PM
1,1,2-Trichloroethane	0.93	0.82		ug/m3	1	3/12/2020 8:44:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	3/12/2020 8:44:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/12/2020 8:44:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/12/2020 8:44:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/12/2020 8:44:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/12/2020 8:44:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 8:44:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	3/12/2020 8:44:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	3/12/2020 8:44:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/12/2020 8:44:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	3/12/2020 8:44:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 8:44:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 8:44:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/12/2020 8:44:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	3/12/2020 8:44:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	3/12/2020 8:44:00 PM
Acetone	15	7.1		ug/m3	10	3/13/2020 1:19:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	3/12/2020 8:44:00 PM
Benzene	1.8	0.48		ug/m3	1	3/12/2020 8:44:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	3/12/2020 8:44:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/12/2020 8:44:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	3/12/2020 8:44:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	3/12/2020 8:44:00 PM
Carbon disulfide	1.3	0.47		ug/m3	1	3/12/2020 8:44:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	3/12/2020 8:44:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	3/12/2020 8:44:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	3/12/2020 8:44:00 PM
Chloroform	8.0	0.73		ug/m3	1	3/12/2020 8:44:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	3/12/2020 8:44:00 PM
cis-1,2-Dichloroethene	4.0	0.59		ug/m3	1	3/12/2020 8:44:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/12/2020 8:44:00 PM
Cyclohexane	8.3	5.2		ug/m3	10	3/13/2020 1:19:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/12/2020 8:44:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	3/12/2020 8:44:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	3/12/2020 8:44:00 PM
Freon 11	1.2	0.84		ug/m3	1	3/12/2020 8:44:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	3/12/2020 8:44:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	3/12/2020 8:44:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

PRELIMINARY

Centek Laboratories, LLC

Date: *16-Mar-20*

CLIENT:	BE3/Panamerican	**Client Sample ID:**	SS03
Lab Order:	C2003030	**Tag Number:**	1318,397
Project:	Fedders Loft	**Collection Date:**	3/5/2020
Lab ID:	C2003030-003A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.74		ug/m3	1	3/12/2020 8:44:00 PM
Heptane	23	6.1		ug/m3	10	3/13/2020 1:19:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/12/2020 8:44:00 PM
Hexane	41	5.3		ug/m3	10	3/13/2020 1:19:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/12/2020 8:44:00 PM
m&p-Xylene	0.43	1.3	J	ug/m3	1	3/12/2020 8:44:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/12/2020 8:44:00 PM
Methyl Ethyl Ketone	2.4	0.88		ug/m3	1	3/12/2020 8:44:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/12/2020 8:44:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	3/12/2020 8:44:00 PM
Methylene chloride	3.2	0.52		ug/m3	1	3/12/2020 8:44:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	3/12/2020 8:44:00 PM
Propylene	< 0.26	0.26		ug/m3	1	3/12/2020 8:44:00 PM
Styrene	< 0.64	0.64		ug/m3	1	3/12/2020 8:44:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/12/2020 8:44:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	3/12/2020 8:44:00 PM
Toluene	2.9	0.57		ug/m3	1	3/12/2020 8:44:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/12/2020 8:44:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/12/2020 8:44:00 PM
Trichloroethene	7400	810		ug/m3	972	3/13/2020 1:15:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	3/12/2020 8:44:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	3/12/2020 8:44:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	3/12/2020 8:44:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

PRELIMINARY

Centek Laboratories, LLC

Date: *16-Mar-20*

CLIENT:	BE3/Panamerican	**Client Sample ID:**	SS04
Lab Order:	C2003030	**Tag Number:**	422,452
Project:	Fedders Loft	**Collection Date:**	3/5/2020
Lab ID:	C2003030-004A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	25	0.82		ug/m3	1	3/12/2020 9:30:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/12/2020 9:30:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	3/12/2020 9:30:00 PM
1,1-Dichloroethane	1.3	0.61		ug/m3	1	3/12/2020 9:30:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/12/2020 9:30:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/12/2020 9:30:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/12/2020 9:30:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/12/2020 9:30:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 9:30:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	3/12/2020 9:30:00 PM
1,2-Dichloropropane	7.2	0.69		ug/m3	1	3/12/2020 9:30:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/12/2020 9:30:00 PM
1,3-butadiene	7.1	0.33		ug/m3	1	3/12/2020 9:30:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 9:30:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 9:30:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/12/2020 9:30:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	3/12/2020 9:30:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	3/12/2020 9:30:00 PM
Acetone	31	7.1		ug/m3	10	3/13/2020 2:04:00 AM
Allyl chloride	0.53	0.47		ug/m3	1	3/12/2020 9:30:00 PM
Benzene	2.6	0.48		ug/m3	1	3/12/2020 9:30:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	3/12/2020 9:30:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/12/2020 9:30:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	3/12/2020 9:30:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	3/12/2020 9:30:00 PM
Carbon disulfide	0.31	0.47	J	ug/m3	1	3/12/2020 9:30:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	3/12/2020 9:30:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	3/12/2020 9:30:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	3/12/2020 9:30:00 PM
Chloroform	3.7	0.73		ug/m3	1	3/12/2020 9:30:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	3/12/2020 9:30:00 PM
cis-1,2-Dichloroethene	38	5.9		ug/m3	10	3/13/2020 2:04:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/12/2020 9:30:00 PM
Cyclohexane	9.6	5.2		ug/m3	10	3/13/2020 2:04:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/12/2020 9:30:00 PM
Ethyl acetate	0.54	0.54		ug/m3	1	3/12/2020 9:30:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	3/12/2020 9:30:00 PM
Freon 11	1.1	0.84		ug/m3	1	3/12/2020 9:30:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	3/12/2020 9:30:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	3/12/2020 9:30:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

PRELIMINARY

Centek Laboratories, LLC

Date: *16-Mar-20*

CLIENT:	BE3/Panamerican	**Client Sample ID:**	SS04
Lab Order:	C2003030	**Tag Number:**	422,452
Project:	Fedders Loft	**Collection Date:**	3/5/2020
Lab ID:	C2003030-004A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.4	0.74		ug/m3	1	3/12/2020 9:30:00 PM
Heptane	11	6.1		ug/m3	10	3/13/2020 2:04:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/12/2020 9:30:00 PM
Hexane	12	5.3		ug/m3	10	3/13/2020 2:04:00 AM
Isopropyl alcohol	2.6	0.37		ug/m3	1	3/12/2020 9:30:00 PM
m&p-Xylene	0.61	1.3	J	ug/m3	1	3/12/2020 9:30:00 PM
Methyl Butyl Ketone	1.4	1.2		ug/m3	1	3/12/2020 9:30:00 PM
Methyl Ethyl Ketone	3.0	0.88		ug/m3	1	3/12/2020 9:30:00 PM
Methyl Isobutyl Ketone	1.0	1.2	J	ug/m3	1	3/12/2020 9:30:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	3/12/2020 9:30:00 PM
Methylene chloride	2.8	0.52		ug/m3	1	3/12/2020 9:30:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	3/12/2020 9:30:00 PM
Propylene	6.7	0.26		ug/m3	1	3/12/2020 9:30:00 PM
Styrene	< 0.64	0.64		ug/m3	1	3/12/2020 9:30:00 PM
Tetrachloroethylene	1.2	1.0		ug/m3	1	3/12/2020 9:30:00 PM
Tetrahydrofuran	2.5	0.44		ug/m3	1	3/12/2020 9:30:00 PM
Toluene	4.9	0.57		ug/m3	1	3/12/2020 9:30:00 PM
trans-1,2-Dichloroethene	4.1	0.59		ug/m3	1	3/12/2020 9:30:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/12/2020 9:30:00 PM
Trichloroethene	4700	1900		ug/m3	2430	3/13/2020 2:00:00 PM
Vinyl acetate	1.3	0.53		ug/m3	1	3/12/2020 9:30:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	3/12/2020 9:30:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	3/12/2020 9:30:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

PRELIMINARY

Centek Laboratories, LLC

Date: *16-Mar-20*

CLIENT:	BE3/Panamerican	**Client Sample ID:**	SS05
Lab Order:	C2003030	**Tag Number:**	569,446
Project:	Fedders Loft	**Collection Date:**	3/5/2020
Lab ID:	C2003030-005A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	3/12/2020 10:17:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/12/2020 10:17:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	3/12/2020 10:17:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	3/12/2020 10:17:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/12/2020 10:17:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/12/2020 10:17:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/12/2020 10:17:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/12/2020 10:17:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 10:17:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	3/12/2020 10:17:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	3/12/2020 10:17:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/12/2020 10:17:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	3/12/2020 10:17:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 10:17:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 10:17:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/12/2020 10:17:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	3/12/2020 10:17:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	3/12/2020 10:17:00 PM
Acetone	17	7.1		ug/m3	10	3/13/2020 2:50:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	3/12/2020 10:17:00 PM
Benzene	26	4.8		ug/m3	10	3/13/2020 2:50:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	3/12/2020 10:17:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/12/2020 10:17:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	3/12/2020 10:17:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	3/12/2020 10:17:00 PM
Carbon disulfide	1.7	0.47		ug/m3	1	3/12/2020 10:17:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	3/12/2020 10:17:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	3/12/2020 10:17:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	3/12/2020 10:17:00 PM
Chloroform	14	7.3		ug/m3	10	3/13/2020 2:50:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	3/12/2020 10:17:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/12/2020 10:17:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/12/2020 10:17:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	3/12/2020 10:17:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/12/2020 10:17:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	3/12/2020 10:17:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	3/12/2020 10:17:00 PM
Freon 11	1.1	0.84		ug/m3	1	3/12/2020 10:17:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	3/12/2020 10:17:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	3/12/2020 10:17:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

PRELIMINARY

Centek Laboratories, LLC

Date: *16-Mar-20*

CLIENT:	BE3/Panamerican	**Client Sample ID:**	SS05
Lab Order:	C2003030	**Tag Number:**	569,446
Project:	Fedders Loft	**Collection Date:**	3/5/2020
Lab ID:	C2003030-005A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.3	0.74		ug/m3	1	3/12/2020 10:17:00 PM
Heptane	420	25		ug/m3	40	3/13/2020 7:03:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/12/2020 10:17:00 PM
Hexane	720	21		ug/m3	40	3/13/2020 7:03:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/12/2020 10:17:00 PM
m&p-Xylene	2.4	1.3		ug/m3	1	3/12/2020 10:17:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/12/2020 10:17:00 PM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	3/12/2020 10:17:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/12/2020 10:17:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	3/12/2020 10:17:00 PM
Methylene chloride	3.5	0.52		ug/m3	1	3/12/2020 10:17:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	3/12/2020 10:17:00 PM
Propylene	< 0.26	0.26		ug/m3	1	3/12/2020 10:17:00 PM
Styrene	< 0.64	0.64		ug/m3	1	3/12/2020 10:17:00 PM
Tetrachloroethylene	1.8	1.0		ug/m3	1	3/12/2020 10:17:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	3/12/2020 10:17:00 PM
Toluene	18	5.7		ug/m3	10	3/13/2020 2:50:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/12/2020 10:17:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/12/2020 10:17:00 PM
Trichloroethene	19000	1900		ug/m3	2430	3/13/2020 2:46:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	3/12/2020 10:17:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	3/12/2020 10:17:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	3/12/2020 10:17:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

PRELIMINARY

Centek Laboratories, LLC

Date: *16-Mar-20*

CLIENT:	BE3/Panamerican	**Client Sample ID:**	SS06
Lab Order:	C2003030	**Tag Number:**	87,394
Project:	Fedders Loft	**Collection Date:**	3/5/2020
Lab ID:	C2003030-006A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	15	0.82		ug/m3	1	3/12/2020 11:04:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/12/2020 11:04:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	3/12/2020 11:04:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	3/12/2020 11:04:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/12/2020 11:04:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/12/2020 11:04:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/12/2020 11:04:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/12/2020 11:04:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 11:04:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	3/12/2020 11:04:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	3/12/2020 11:04:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/12/2020 11:04:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	3/12/2020 11:04:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 11:04:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/12/2020 11:04:00 PM
1,4-Dioxane	2.7	1.1		ug/m3	1	3/12/2020 11:04:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	3/12/2020 11:04:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	3/12/2020 11:04:00 PM
Acetone	110	14		ug/m3	20	3/13/2020 7:48:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	3/12/2020 11:04:00 PM
Benzene	2.1	0.48		ug/m3	1	3/12/2020 11:04:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	3/12/2020 11:04:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/12/2020 11:04:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	3/12/2020 11:04:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	3/12/2020 11:04:00 PM
Carbon disulfide	17	4.7		ug/m3	10	3/13/2020 3:35:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	3/12/2020 11:04:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	3/12/2020 11:04:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	3/12/2020 11:04:00 PM
Chloroform	0.93	0.73		ug/m3	1	3/12/2020 11:04:00 PM
Chloromethane	0.62	0.31		ug/m3	1	3/12/2020 11:04:00 PM
cis-1,2-Dichloroethene	1.0	0.59		ug/m3	1	3/12/2020 11:04:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/12/2020 11:04:00 PM
Cyclohexane	14	5.2		ug/m3	10	3/13/2020 3:35:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/12/2020 11:04:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	3/12/2020 11:04:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	3/12/2020 11:04:00 PM
Freon 11	1.2	0.84		ug/m3	1	3/12/2020 11:04:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	3/12/2020 11:04:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	3/12/2020 11:04:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

PRELIMINARY

Centek Laboratories, LLC

Date: *16-Mar-20*

CLIENT:	BE3/Panamerican	**Client Sample ID:**	SS06
Lab Order:	C2003030	**Tag Number:**	87,394
Project:	Fedders Loft	**Collection Date:**	3/5/2020
Lab ID:	C2003030-006A	**Matrix:**	AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.74		ug/m3	1	3/12/2020 11:04:00 PM
Heptane	11	6.1		ug/m3	10	3/13/2020 3:35:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/12/2020 11:04:00 PM
Hexane	13	5.3		ug/m3	10	3/13/2020 3:35:00 AM
Isopropyl alcohol	8.4	3.7		ug/m3	10	3/13/2020 3:35:00 AM
m&p-Xylene	0.52	1.3	J	ug/m3	1	3/12/2020 11:04:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/12/2020 11:04:00 PM
Methyl Ethyl Ketone	6.0	0.88		ug/m3	1	3/12/2020 11:04:00 PM
Methyl Isobutyl Ketone	1.2	1.2		ug/m3	1	3/12/2020 11:04:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	3/12/2020 11:04:00 PM
Methylene chloride	4.6	0.52		ug/m3	1	3/12/2020 11:04:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	3/12/2020 11:04:00 PM
Propylene	< 0.26	0.26		ug/m3	1	3/12/2020 11:04:00 PM
Styrene	< 0.64	0.64		ug/m3	1	3/12/2020 11:04:00 PM
Tetrachloroethylene	0.68	1.0	J	ug/m3	1	3/12/2020 11:04:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	3/12/2020 11:04:00 PM
Toluene	3.4	0.57		ug/m3	1	3/12/2020 11:04:00 PM
trans-1,2-Dichloroethene	0.91	0.59		ug/m3	1	3/12/2020 11:04:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/12/2020 11:04:00 PM
Trichloroethene	93	16		ug/m3	20	3/13/2020 7:48:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	3/12/2020 11:04:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	3/12/2020 11:04:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	3/12/2020 11:04:00 PM

Qualifiers:

SC	Sub-Contracted	.	Results reported are not blank corrected
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PRELIMINARY