



ANALYTICAL REPORT

Lab Number:	L1909520
Client:	JMT, Inc. 19 British American Blvd. Latham, NY 12110
ATTN:	Paul Adel
Phone:	(518) 782-0882
Project Name:	CARGILL
Project Number:	19-00706N-001
Report Date:	03/13/19

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1909520-01	SS-11	SOIL	LANSING, NY	03/12/19 13:00	03/12/19

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

Case Narrative

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

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

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

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

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

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

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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.

Volatile Organics

L1909520-01: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 03/13/19

ORGANICS

VOLATILES

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

SAMPLE RESULTS

Lab ID: L1909520-01
 Client ID: SS-11
 Sample Location: LANSING, NY

Date Collected: 03/12/19 13:00
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/13/19 09:46
 Analyst: MV
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	230	100	1
1,1-Dichloroethane	ND		ug/kg	46	6.7	1
Chloroform	ND		ug/kg	69	6.4	1
Carbon tetrachloride	ND		ug/kg	46	10.	1
1,2-Dichloropropane	ND		ug/kg	46	5.8	1
Dibromochloromethane	ND		ug/kg	46	6.4	1
1,1,2-Trichloroethane	ND		ug/kg	46	12.	1
Tetrachloroethene	ND		ug/kg	23	9.0	1
Chlorobenzene	ND		ug/kg	23	5.8	1
Trichlorofluoromethane	ND		ug/kg	180	32.	1
1,2-Dichloroethane	ND		ug/kg	46	12.	1
1,1,1-Trichloroethane	ND		ug/kg	23	7.7	1
Bromodichloromethane	ND		ug/kg	23	5.0	1
trans-1,3-Dichloropropene	ND		ug/kg	46	12.	1
cis-1,3-Dichloropropene	ND		ug/kg	23	7.3	1
Bromoform	ND		ug/kg	180	11.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	23	7.6	1
Benzene	ND		ug/kg	23	7.6	1
Toluene	ND		ug/kg	46	25.	1
Ethylbenzene	ND		ug/kg	46	6.5	1
Chloromethane	ND		ug/kg	180	43.	1
Bromomethane	ND		ug/kg	92	27.	1
Vinyl chloride	ND		ug/kg	46	15.	1
Chloroethane	ND		ug/kg	92	21.	1
1,1-Dichloroethene	ND		ug/kg	46	11.	1
trans-1,2-Dichloroethene	ND		ug/kg	69	6.3	1
Trichloroethene	ND		ug/kg	23	6.3	1
1,2-Dichlorobenzene	ND		ug/kg	92	6.6	1

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SAMPLE RESULTS

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Client ID: SS-11
Sample Location: LANSING, NY

Date Collected: 03/12/19 13:00
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by EPA 5035 High - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	92	6.8	1
1,4-Dichlorobenzene	ND		ug/kg	92	7.9	1
Methyl tert butyl ether	ND		ug/kg	92	9.2	1
p/m-Xylene	ND		ug/kg	92	26.	1
o-Xylene	ND		ug/kg	46	13.	1
cis-1,2-Dichloroethene	ND		ug/kg	46	8.1	1
Styrene	ND		ug/kg	46	9.0	1
Dichlorodifluoromethane	ND		ug/kg	460	42.	1
Acetone	ND		ug/kg	460	220	1
Carbon disulfide	ND		ug/kg	460	210	1
2-Butanone	ND		ug/kg	460	100	1
4-Methyl-2-pentanone	ND		ug/kg	460	59.	1
2-Hexanone	ND		ug/kg	460	54.	1
Bromochloromethane	ND		ug/kg	92	9.4	1
1,2-Dibromoethane	ND		ug/kg	46	13.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	140	46.	1
Isopropylbenzene	ND		ug/kg	46	5.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	92	15.	1
1,2,4-Trichlorobenzene	ND		ug/kg	92	12.	1
Methyl Acetate	ND		ug/kg	180	44.	1
Cyclohexane	ND		ug/kg	460	25.	1
1,4-Dioxane	ND		ug/kg	3700	1600	1
Freon-113	ND		ug/kg	180	32.	1
Methyl cyclohexane	ND		ug/kg	180	28.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	94		70-130

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/13/19 09:20
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1215152-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	22	J	ug/kg	25	6.8
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4

Project Name: CARGILL
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/13/19 09:20
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1215152-5					
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	13	J	ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
Methyl Acetate	ND		ug/kg	200	48.
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: CARGILL
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Report Date: 03/13/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/13/19 09:20
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1215152-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1215152-3 WG1215152-4								
Methylene chloride	87		87		70-130	0		30
1,1-Dichloroethane	86		86		70-130	0		30
Chloroform	83		83		70-130	0		30
Carbon tetrachloride	83		83		70-130	0		30
1,2-Dichloropropane	85		85		70-130	0		30
Dibromochloromethane	82		84		70-130	2		30
1,1,2-Trichloroethane	87		86		70-130	1		30
Tetrachloroethene	84		84		70-130	0		30
Chlorobenzene	81		82		70-130	1		30
Trichlorofluoromethane	86		85		70-139	1		30
1,2-Dichloroethane	84		85		70-130	1		30
1,1,1-Trichloroethane	85		84		70-130	1		30
Bromodichloromethane	80		81		70-130	1		30
trans-1,3-Dichloropropene	86		86		70-130	0		30
cis-1,3-Dichloropropene	83		82		70-130	1		30
Bromoform	81		82		70-130	1		30
1,1,2,2-Tetrachloroethane	84		84		70-130	0		30
Benzene	83		83		70-130	0		30
Toluene	85		85		70-130	0		30
Ethylbenzene	85		85		70-130	0		30
Chloromethane	98		95		52-130	3		30
Bromomethane	98		97		57-147	1		30
Vinyl chloride	87		85		67-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1215152-3 WG1215152-4								
Chloroethane	81		81		50-151	0		30
1,1-Dichloroethene	85		84		65-135	1		30
trans-1,2-Dichloroethene	86		84		70-130	2		30
Trichloroethene	83		82		70-130	1		30
1,2-Dichlorobenzene	83		83		70-130	0		30
1,3-Dichlorobenzene	83		83		70-130	0		30
1,4-Dichlorobenzene	83		84		70-130	1		30
Methyl tert butyl ether	87		85		66-130	2		30
p/m-Xylene	82		83		70-130	1		30
o-Xylene	81		82		70-130	1		30
cis-1,2-Dichloroethene	84		84		70-130	0		30
Styrene	82		82		70-130	0		30
Dichlorodifluoromethane	88		84		30-146	5		30
Acetone	107		102		54-140	5		30
Carbon disulfide	92		90		59-130	2		30
2-Butanone	95		90		70-130	5		30
4-Methyl-2-pentanone	101		96		70-130	5		30
2-Hexanone	91		89		70-130	2		30
Bromochloromethane	85		82		70-130	4		30
1,2-Dibromoethane	86		84		70-130	2		30
1,2-Dibromo-3-chloropropane	86		84		68-130	2		30
Isopropylbenzene	84		85		70-130	1		30
1,2,3-Trichlorobenzene	83		84		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1215152-3 WG1215152-4								
1,2,4-Trichlorobenzene	83		83		70-130	0		30
Methyl Acetate	88		86		51-146	2		30
Cyclohexane	88		87		59-142	1		30
1,4-Dioxane	110		117		65-136	6		30
Freon-113	88		86		50-139	2		30
Methyl cyclohexane	85		83		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		97		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	98		97		70-130

SEMIVOLATILES

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

SAMPLE RESULTS

Lab ID: L1909520-01
 Client ID: SS-11
 Sample Location: LANSING, NY

Date Collected: 03/12/19 13:00
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/13/19 10:28
 Analyst: JG
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 03/13/19 02:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1

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Sample Location: LANSING, NY

Date Collected: 03/12/19 13:00
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	50	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Carbazole	ND		ug/kg	180	18.	1
Atrazine	ND		ug/kg	150	65.	1
Benzaldehyde	ND		ug/kg	240	50.	1

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

SAMPLE RESULTS

Lab ID: L1909520-01
Client ID: SS-11
Sample Location: LANSING, NY

Date Collected: 03/12/19 13:00
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	56.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	61		18-120

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/13/19 09:11
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 03/13/19 00:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1214963-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/13/19 09:11
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 03/13/19 00:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1214963-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/13/19 09:11
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 03/13/19 00:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1214963-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	117		10-136
4-Terphenyl-d14	100		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1214963-2 WG1214963-3								
Acenaphthene	79		75		31-137	5		50
Hexachlorobenzene	94		89		40-140	5		50
Bis(2-chloroethyl)ether	56		53		40-140	6		50
2-Chloronaphthalene	82		77		40-140	6		50
3,3'-Dichlorobenzidine	68		56		40-140	19		50
2,4-Dinitrotoluene	85		77		40-132	10		50
2,6-Dinitrotoluene	84		80		40-140	5		50
Fluoranthene	83		79		40-140	5		50
4-Chlorophenyl phenyl ether	90		86		40-140	5		50
4-Bromophenyl phenyl ether	94		89		40-140	5		50
Bis(2-chloroisopropyl)ether	44		42		40-140	5		50
Bis(2-chloroethoxy)methane	63		60		40-117	5		50
Hexachlorobutadiene	87		85		40-140	2		50
Hexachlorocyclopentadiene	78		74		40-140	5		50
Hexachloroethane	73		69		40-140	6		50
Isophorone	71		66		40-140	7		50
Naphthalene	70		67		40-140	4		50
Nitrobenzene	69		66		40-140	4		50
NDPA/DPA	86		82		36-157	5		50
n-Nitrosodi-n-propylamine	69		64		32-121	8		50
Bis(2-ethylhexyl)phthalate	94		90		40-140	4		50
Butyl benzyl phthalate	85		80		40-140	6		50
Di-n-butylphthalate	84		79		40-140	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1214963-2 WG1214963-3								
Di-n-octylphthalate	98		92		40-140	6		50
Diethyl phthalate	87		84		40-140	4		50
Dimethyl phthalate	79		76		40-140	4		50
Benzo(a)anthracene	85		80		40-140	6		50
Benzo(a)pyrene	94		88		40-140	7		50
Benzo(b)fluoranthene	90		87		40-140	3		50
Benzo(k)fluoranthene	89		84		40-140	6		50
Chrysene	88		85		40-140	3		50
Acenaphthylene	80		78		40-140	3		50
Anthracene	79		74		40-140	7		50
Benzo(ghi)perylene	78		73		40-140	7		50
Fluorene	83		79		40-140	5		50
Phenanthrene	73		69		40-140	6		50
Dibenzo(a,h)anthracene	82		75		40-140	9		50
Indeno(1,2,3-cd)pyrene	79		74		40-140	7		50
Pyrene	83		77		35-142	8		50
Biphenyl	83		80		54-104	4		50
4-Chloroaniline	46		42		40-140	9		50
2-Nitroaniline	75		73		47-134	3		50
3-Nitroaniline	57		53		26-129	7		50
4-Nitroaniline	70		65		41-125	7		50
Dibenzofuran	82		79		40-140	4		50
2-Methylnaphthalene	73		71		40-140	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1214963-2 WG1214963-3								
1,2,4,5-Tetrachlorobenzene	89		88		40-117	1		50
Acetophenone	75		74		14-144	1		50
2,4,6-Trichlorophenol	90		85		30-130	6		50
p-Chloro-m-cresol	80		77		26-103	4		50
2-Chlorophenol	72		70		25-102	3		50
2,4-Dichlorophenol	87		76		30-130	13		50
2,4-Dimethylphenol	83		79		30-130	5		50
2-Nitrophenol	75		70		30-130	7		50
4-Nitrophenol	87		80		11-114	8		50
2,4-Dinitrophenol	65		57		4-130	13		50
4,6-Dinitro-o-cresol	83		80		10-130	4		50
Pentachlorophenol	89		83		17-109	7		50
Phenol	60		57		26-90	5		50
2-Methylphenol	73		70		30-130	4		50
3-Methylphenol/4-Methylphenol	74		71		30-130	4		50
2,4,5-Trichlorophenol	95		89		30-130	7		50
Carbazole	76		70		54-128	8		50
Atrazine	110		93		40-140	17		50
Benzaldehyde	70		64		40-140	9		50
Caprolactam	72		66		15-130	9		50
2,3,4,6-Tetrachlorophenol	98		91		40-140	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1214963-2 WG1214963-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	65		60		25-120
Phenol-d6	64		61		10-120
Nitrobenzene-d5	69		65		23-120
2-Fluorobiphenyl	77		74		30-120
2,4,6-Tribromophenol	97		95		10-136
4-Terphenyl-d14	83		77		18-120

INORGANICS & MISCELLANEOUS

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

SAMPLE RESULTS

Lab ID: L1909520-01
Client ID: SS-11
Sample Location: LANSING, NY

Date Collected: 03/12/19 13:00
Date Received: 03/12/19
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	88.6		%	0.100	NA	1	-	03/13/19 02:28	121,2540G	YA



Lab Duplicate Analysis
Batch Quality Control

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1214973-1 QC Sample: L1909620-31 Client ID: DUP Sample						
Solids, Total	89.3	91.8	%	3		20

Project Name: CARGILL
Project Number: 19-00706N-001

Serial_No:03131915:04
Lab Number: L1909520
Report Date: 03/13/19

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(*)
L1909520-01A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1909520-01B	Vial water preserved	A	NA		3.4	Y	Absent	13-MAR-19 01:51	NYTCL-8260HLW-R2(14)
L1909520-01C	Vial water preserved	A	NA		3.4	Y	Absent	13-MAR-19 01:51	NYTCL-8260HLW-R2(14)
L1909520-01D	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L1909520-01E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14)

Project Name: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

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.
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

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

Report Format: DU Report with 'J' Qualifiers



Project Name: CARGILL
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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.

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.

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.

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 Condensation Product".
- 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 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: CARGILL
Project Number: 19-00706N-001

Lab Number: L1909520
Report Date: 03/13/19

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.



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), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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, SM4500CI-D, SM2320B, SM2540C, SM4500H-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, **LCHAT 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.

