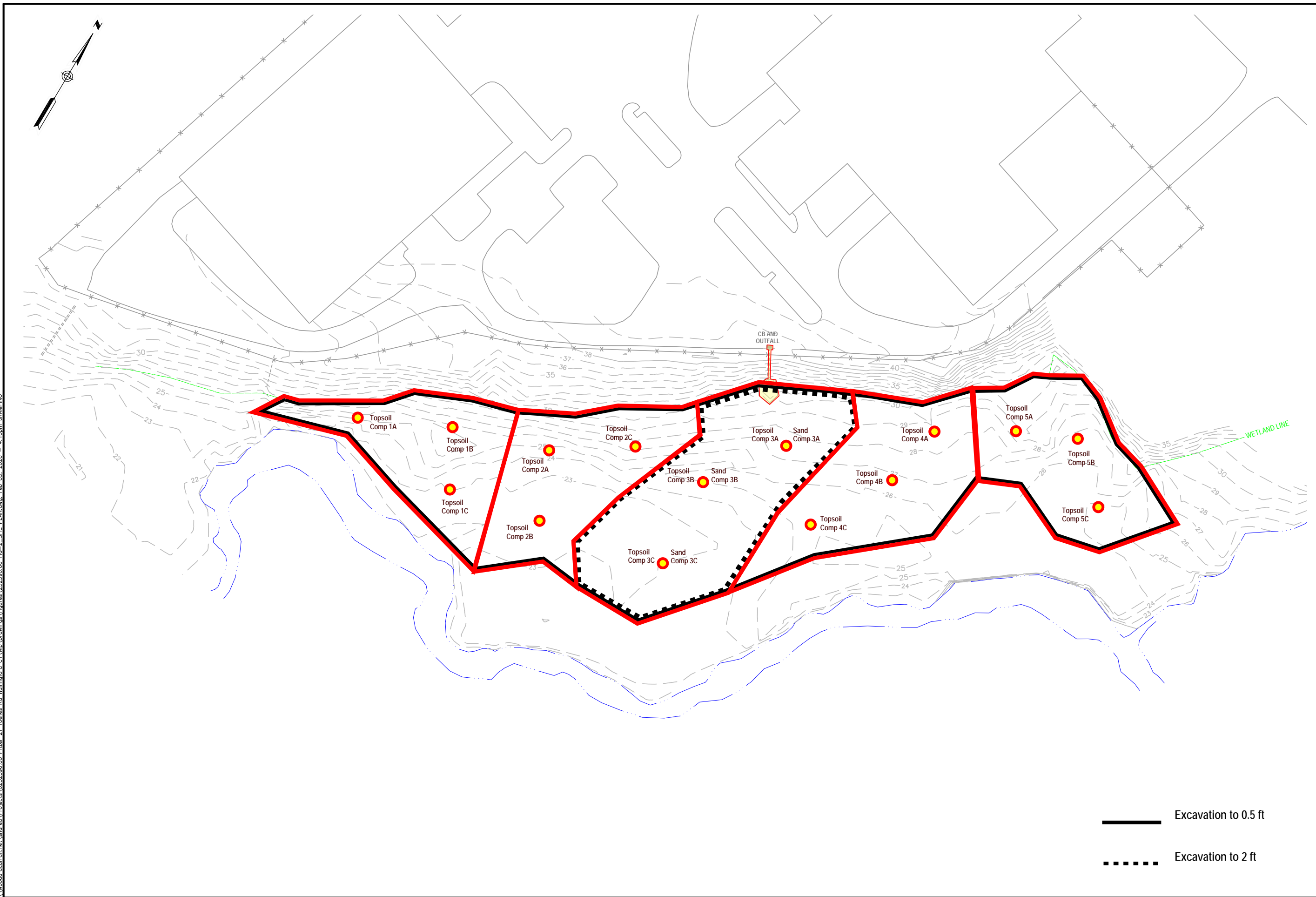


Table 1
Summary of Composite Soil Sample Results for TOC and Macronutrient Analysis in AOC-22A
Former Pfizer Facility
21 Toelles Road, Wallingford, CT

Parameter	Topsoil Comp 1	Topsoil Comp 2	Topsoil Comp 3	Sand Comp 3	Topsoil Comp 4	Topsoil Comp 5
Sampling Date	11/24/20	11/24/20	11/24/20	11/24/20	11/24/20	11/24/20
Sample Depth (ft)	0-0.5	0-0.5	0-0.5	1-2	0-0.5	0-0.5
Solids (%)	53.8	50	53.8	83.5	57.7	43.2
pH	6.2	6.4	6.0	5.9	5.5	6.0
Total Organic Carbon (mg/kg)	6,000	1,900	13,000	13,000	64,000	42,000
Nitrate as N (mg/kg)	<1.8	3.9	<1.6	<2.3	<1.8	<2.0
Total Kjeldahl Nitrogen (mg/kg)	220	200	180	20	170	340
Ammonia as N (mg/kg)	<55	<54	<54	<29	<46	<65
Phosphorus, Total (mg/kg)	4.9	33	17	17	15	15
Potassium (mg/kg)	4,500	6,000	2,300	1,600	2,000	2,100
<p>Notes</p> <p>mg/kg = milligrams per kilogram</p> <p>ft = feet</p> <p>"<" = Not detected above laboratory reporting limit indicated</p> <p>Topsoil Comp 1 composited from discrete soil sample locations Topsoil Comp 1A, 1B, and 1C.</p> <p>Topsoil Comp 2 composited from discrete soil sample locations Topsoil Comp 2A, 2B, and 2C.</p> <p>Topsoil Comp 3 composited from discrete soil sample locations Topsoil Comp 3A, 3B, and 3C.</p> <p>Sand Comp 3 composited from discrete soil sample locations Sand Comp 3A, 3B, and 3C.</p> <p>Topsoil Comp 4 composited from discrete soil sample locations Topsoil Comp 4A, 4B, and 4C.</p> <p>Topsoil Comp 5 composited from discrete soil sample locations Topsoil Comp 5A, 5B, and 5C.</p>						

\\woodardcurran.net\shares\Projects\0232596.00_Pfizer_21_Toeles_Rd_Wallingford_Ct\Drawings\Figures\232596.00_FIG-2_SITE_PLAN.dwg, Feb. 03, 2020 - 4:10pm, JRAMPRINO



Excavation to 0.5 ft
 Excavation to 2 ft

December 1, 2020

Jack Markey
Woodard & Curran - CT
213 Court Street., 4th Floor
Middletown, CT 06457

Project Location: 21 Toelles Rd, Wallingford, CT
Client Job Number:
Project Number: 0232596.01
Laboratory Work Order Number: 20K1242

Enclosed are results of analyses for samples received by the laboratory on November 24, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive style with a large, sweeping "y" at the end.

Meghan E. Kelley
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Woodard & Curran - CT
 213 Court Street., 4th Floor
 Middletown, CT 06457
 ATTN: Jack Markey

REPORT DATE: 12/1/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 0232596.01

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20K1242

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 21 Toelles Rd, Wallingford, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Topsoil Comp 1	20K1242-01	Soil		NECi N07-0003 Modified SM 21-22 4500 P E Modified SM 2540G SM19-22 4500-N Org B,C-NH3 C Modified SM21-22 4500 NH3 C Modified SW 846 9060A SW-846 6010D SW-846 9045C	
Topsoil Comp 2	20K1242-02	Soil		NECi N07-0003 Modified SM 21-22 4500 P E Modified SM 2540G SM19-22 4500-N Org B,C-NH3 C Modified SM21-22 4500 NH3 C Modified SW 846 9060A SW-846 6010D SW-846 9045C	
Topsoil Comp 3	20K1242-03	Soil		NECi N07-0003 Modified SM 21-22 4500 P E Modified SM 2540G SM19-22 4500-N Org B,C-NH3 C Modified SM21-22 4500 NH3 C Modified SW 846 9060A SW-846 6010D SW-846 9045C	

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Woodard & Curran - CT
 213 Court Street., 4th Floor
 Middletown, CT 06457
 ATTN: Jack Markey

REPORT DATE: 12/1/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 0232596.01

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20K1242

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 21 Toelles Rd, Wallingford, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Sand Comp 3	20K1242-04	Soil		NECi N07-0003 Modified SM 21-22 4500 P E Modified SM 2540G SM19-22 4500-N Org B,C-NH3 C Modified SM21-22 4500 NH3 C Modified SW 846 9060A SW-846 6010D SW-846 9045C	
Topsoil Comp 4	20K1242-05	Soil		NECi N07-0003 Modified SM 21-22 4500 P E Modified SM 2540G SM19-22 4500-N Org B,C-NH3 C Modified SM21-22 4500 NH3 C Modified SW 846 9060A SW-846 6010D SW-846 9045C	
Topsoil Comp 5	20K1242-06	Soil		NECi N07-0003 Modified SM 21-22 4500 P E Modified SM 2540G SM19-22 4500-N Org B,C-NH3 C Modified SM21-22 4500 NH3 C Modified SW 846 9060A SW-846 6010D SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 12/1/2020 - 20K1242-06 ID revised per chain of custody.

SW 846 9060A

Qualifications:**MS-11**

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**Total Organic Carbon**

20K1242-01[Topsoil Comp 1], B271638-MS1

SW-846 6010D

Qualifications:**L-07**

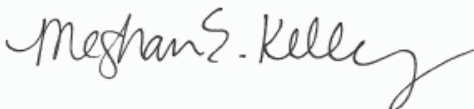
Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Potassium**

B271657-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test 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.



Meghan E. Kelley

Project Management Supervisor

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 21 Toelles Rd, Wallingford, CT

Sample Description:

Work Order: 20K1242

Date Received: 11/24/2020

Field Sample #: Topsoil Comp 1

Sampled: 11/24/2020 14:30

Sample ID: 20K1242-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Potassium	4500	310	mg/Kg dry	1		SW-846 6010D	11/25/20	11/29/20 14:37	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 21 Toelles Rd, Wallingford, CT

Sample Description:

Work Order: 20K1242

Date Received: 11/24/2020

Field Sample #: Topsoil Comp 1

Sampled: 11/24/2020 14:30

Sample ID: 20K1242-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	53.8		% Wt	1		SM 2540G	11/25/20	11/29/20 10:15	CAH
Ammonia as N	ND	55	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	11/25/20	11/25/20 15:00	CLJ
Nitrate as N	ND	1.8	mg/Kg	1		NECi N07-0003 Modified	11/25/20	11/25/20 10:02	MMH
pH @18.9°C	6.2		pH Units	1		SW-846 9045C	11/24/20	11/24/20 21:50	RAV
Phosphorus, Total	4.9	3.7	mg/Kg dry	1		SM 21-22 4500 P E Modified	11/25/20	11/30/20 21:00	DJM
Total Kjeldahl Nitrogen	220	3.7	mg/Kg dry	1		SM19-22 4500-N Org B,C-NH3 C Modified	11/25/20	11/29/20 8:05	EC
Total Organic Carbon	6000	100	mg/Kg	1	MS-11	SW 846 9060A	11/30/20	11/30/20 16:48	DJM

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 21 Toelles Rd, Wallingford, CT

Sample Description:

Work Order: 20K1242

Date Received: 11/24/2020

Field Sample #: Topsoil Comp 2

Sampled: 11/24/2020 14:50

Sample ID: 20K1242-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Potassium	6000	340	mg/Kg dry	1		SW-846 6010D	11/25/20	11/29/20 14:42	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 21 Toelles Rd, Wallingford, CT

Sample Description:

Work Order: 20K1242

Date Received: 11/24/2020

Field Sample #: Topsoil Comp 2

Sampled: 11/24/2020 14:50

Sample ID: 20K1242-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	50.0		% Wt	1		SM 2540G	11/25/20	11/29/20 10:16	CAH
Ammonia as N	ND	54	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	11/25/20	11/25/20 15:00	CLJ
Nitrate as N	3.9	2.2	mg/Kg	1		NECi N07-0003 Modified	11/25/20	11/25/20 10:02	MMH
pH @18.7°C	6.4		pH Units	1		SW-846 9045C	11/24/20	11/24/20 21:50	RAV
Phosphorus, Total	33	4.9	mg/Kg dry	1		SM 21-22 4500 P E Modified	11/25/20	11/30/20 21:00	DJM
Total Kjeldahl Nitrogen	200	3.9	mg/Kg dry	1		SM19-22 4500-N Org B,C-NH3 C Modified	11/25/20	11/29/20 8:05	EC
Total Organic Carbon	1900	100	mg/Kg	1		SW 846 9060A	11/30/20	11/30/20 19:02	DJM

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 21 Toelles Rd, Wallingford, CT

Sample Description:

Work Order: 20K1242

Date Received: 11/24/2020

Field Sample #: Topsoil Comp 3

Sampled: 11/24/2020 15:10

Sample ID: 20K1242-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Potassium	2300	300	mg/Kg dry	1		SW-846 6010D	11/25/20	11/29/20 14:47	MJH

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Project Location: 21 Toelles Rd, Wallingford, CT

Sample Description:

Work Order: 20K1242

Date Received: 11/24/2020

Field Sample #: Topsoil Comp 3

Sampled: 11/24/2020 15:10

Sample ID: 20K1242-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	53.8		% Wt	1		SM 2540G	11/25/20	11/29/20 10:16	CAH
Ammonia as N	ND	54	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	11/25/20	11/25/20 15:00	CLJ
Nitrate as N	ND	1.6	mg/Kg	1		NECi N07-0003 Modified	11/25/20	11/25/20 10:02	MMH
pH @18.3°C	6.0		pH Units	1		SW-846 9045C	11/24/20	11/24/20 21:50	RAV
Phosphorus, Total	17	4.5	mg/Kg dry	1		SM 21-22 4500 P E Modified	11/25/20	11/30/20 21:00	DJM
Total Kjeldahl Nitrogen	180	3.7	mg/Kg dry	1		SM19-22 4500-N Org B,C-NH3 C Modified	11/25/20	11/29/20 8:05	EC
Total Organic Carbon	13000	100	mg/Kg	1		SW 846 9060A	11/30/20	11/30/20 19:42	DJM

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 21 Toelles Rd, Wallingford, CT

Sample Description:

Work Order: 20K1242

Date Received: 11/24/2020

Field Sample #: Sand Comp 3

Sampled: 11/24/2020 15:15

Sample ID: 20K1242-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Potassium	1600	200	mg/Kg dry	1		SW-846 6010D	11/25/20	11/29/20 14:53	MJH

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Project Location: 21 Toelles Rd, Wallingford, CT

Sample Description:

Work Order: 20K1242

Date Received: 11/24/2020

Field Sample #: Sand Comp 3

Sampled: 11/24/2020 15:15

Sample ID: 20K1242-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	11/25/20	11/29/20 10:16	CAH
Ammonia as N	ND	29	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	11/25/20	11/25/20 15:00	CLJ
Nitrate as N	ND	2.3	mg/Kg	1		NECi N07-0003 Modified	11/25/20	11/25/20 10:02	MMH
pH @18.5°C	5.9		pH Units	1		SW-846 9045C	11/24/20	11/24/20 21:50	RAV
Phosphorus, Total	17	2.9	mg/Kg dry	1		SM 21-22 4500 P E Modified	11/25/20	11/30/20 21:00	DJM
Total Kjeldahl Nitrogen	20	2.4	mg/Kg dry	1		SM19-22 4500-N Org B,C-NH3 C Modified	11/25/20	11/29/20 8:05	EC
Total Organic Carbon	13000	100	mg/Kg	1		SW 846 9060A	11/30/20	11/30/20 20:48	DJM

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 21 Toelles Rd, Wallingford, CT

Sample Description:

Work Order: 20K1242

Date Received: 11/24/2020

Field Sample #: Topsoil Comp 4

Sampled: 11/24/2020 15:35

Sample ID: 20K1242-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Potassium	2000	290	mg/Kg dry	1		SW-846 6010D	11/25/20	11/29/20 14:58	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 21 Toelles Rd, Wallingford, CT

Sample Description:

Work Order: 20K1242

Date Received: 11/24/2020

Field Sample #: Topsoil Comp 4

Sampled: 11/24/2020 15:35

Sample ID: 20K1242-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	57.7		% Wt	1		SM 2540G	11/25/20	11/29/20 10:16	CAH
Ammonia as N	ND	46	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	11/25/20	11/25/20 15:00	CLJ
Nitrate as N	ND	1.8	mg/Kg	1		NECi N07-0003 Modified	11/25/20	11/25/20 10:02	MMH
pH @18.3°C	5.5		pH Units	1		SW-846 9045C	11/24/20	11/24/20 21:50	RAV
Phosphorus, Total	15	3.8	mg/Kg dry	1		SM 21-22 4500 P E Modified	11/25/20	11/30/20 21:00	DJM
Total Kjeldahl Nitrogen	170	3.4	mg/Kg dry	1		SM19-22 4500-N Org B,C-NH3 C Modified	11/25/20	11/29/20 8:05	EC
Total Organic Carbon	64000	100	mg/Kg	1		SW 846 9060A	11/30/20	11/30/20 22:22	DJM

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 21 Toelles Rd, Wallingford, CT

Sample Description:

Work Order: 20K1242

Date Received: 11/24/2020

Field Sample #: Topsoil Comp 5

Sampled: 11/24/2020 15:55

Sample ID: 20K1242-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Potassium	2100	390	mg/Kg dry	1		SW-846 6010D	11/25/20	11/29/20 15:02	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 21 Toelles Rd, Wallingford, CT

Sample Description:

Work Order: 20K1242

Date Received: 11/24/2020

Field Sample #: Topsoil Comp 5

Sampled: 11/24/2020 15:55

Sample ID: 20K1242-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	43.2		% Wt	1		SM 2540G	11/25/20	11/29/20 10:16	CAH
Ammonia as N	ND	65	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	11/25/20	11/25/20 15:00	CLJ
Nitrate as N	ND	2.0	mg/Kg	1		NECi N07-0003 Modified	11/25/20	11/25/20 10:02	MMH
pH @18.2°C	6.0		pH Units	1		SW-846 9045C	11/24/20	11/24/20 21:50	RAV
Phosphorus, Total	15	4.6	mg/Kg dry	1		SM 21-22 4500 P E Modified	11/25/20	11/30/20 21:00	DJM
Total Kjeldahl Nitrogen	340	4.6	mg/Kg dry	1		SM19-22 4500-N Org B,C-NH3 C Modified	11/25/20	11/29/20 8:05	EC
Total Organic Carbon	42000	100	mg/Kg	1		SW 846 9060A	11/30/20	11/30/20 21:19	DJM

Sample Extraction Data

NECi N07-0003 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20K1242-01 [Topsoil Comp 1]	B271642	1.37	50.0	11/25/20
20K1242-02 [Topsoil Comp 2]	B271642	1.12	50.0	11/25/20
20K1242-03 [Topsoil Comp 3]	B271642	1.57	50.0	11/25/20
20K1242-04 [Sand Comp 3]	B271642	1.09	50.0	11/25/20
20K1242-05 [Topsoil Comp 4]	B271642	1.42	50.0	11/25/20
20K1242-06 [Topsoil Comp 5]	B271642	1.25	50.0	11/25/20

SM 21-22 4500 P E Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20K1242-01 [Topsoil Comp 1]	B271711	1.27	50.0	11/25/20
20K1242-02 [Topsoil Comp 2]	B271711	1.01	50.0	11/25/20
20K1242-03 [Topsoil Comp 3]	B271711	1.04	50.0	11/25/20
20K1242-04 [Sand Comp 3]	B271711	1.04	50.0	11/25/20
20K1242-05 [Topsoil Comp 4]	B271711	1.14	50.0	11/25/20
20K1242-06 [Topsoil Comp 5]	B271711	1.27	50.0	11/25/20

Prep Method: % Solids Analytical Method: SM 2540G

Lab Number [Field ID]	Batch	Date
20K1242-01 [Topsoil Comp 1]	B271680	11/25/20
20K1242-02 [Topsoil Comp 2]	B271680	11/25/20
20K1242-03 [Topsoil Comp 3]	B271680	11/25/20
20K1242-04 [Sand Comp 3]	B271680	11/25/20
20K1242-05 [Topsoil Comp 4]	B271680	11/25/20
20K1242-06 [Topsoil Comp 5]	B271680	11/25/20

SM19-22 4500-N Org B,C-NH3 C Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20K1242-01 [Topsoil Comp 1]	B271688	5.09	10.0	11/25/20
20K1242-02 [Topsoil Comp 2]	B271688	5.08	10.0	11/25/20
20K1242-03 [Topsoil Comp 3]	B271688	5.01	10.0	11/25/20
20K1242-04 [Sand Comp 3]	B271688	5.06	10.0	11/25/20
20K1242-05 [Topsoil Comp 4]	B271688	5.05	10.0	11/25/20
20K1242-06 [Topsoil Comp 5]	B271688	5.08	10.0	11/25/20

SM21-22 4500 NH3 C Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20K1242-01 [Topsoil Comp 1]	B271664	1.02	100	11/25/20
20K1242-02 [Topsoil Comp 2]	B271664	1.12	100	11/25/20
20K1242-03 [Topsoil Comp 3]	B271664	1.03	100	11/25/20
20K1242-04 [Sand Comp 3]	B271664	1.22	100	11/25/20
20K1242-05 [Topsoil Comp 4]	B271664	1.13	100	11/25/20
20K1242-06 [Topsoil Comp 5]	B271664	1.06	100	11/25/20

Sample Extraction Data

SW 846 9060A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20K1242-01 [Topsoil Comp 1]	B271638	1.00	1.00	11/30/20
20K1242-02 [Topsoil Comp 2]	B271638	1.00	1.00	11/30/20
20K1242-03 [Topsoil Comp 3]	B271638	1.00	1.00	11/30/20
20K1242-04 [Sand Comp 3]	B271638	1.00	1.00	11/30/20
20K1242-05 [Topsoil Comp 4]	B271638	1.00	1.00	11/30/20
20K1242-06 [Topsoil Comp 5]	B271638	1.00	1.00	11/30/20

Prep Method: SW-846 3051 Analytical Method: SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20K1242-01 [Topsoil Comp 1]	B271657	1.49	50.0	11/25/20
20K1242-02 [Topsoil Comp 2]	B271657	1.47	50.0	11/25/20
20K1242-03 [Topsoil Comp 3]	B271657	1.53	50.0	11/25/20
20K1242-04 [Sand Comp 3]	B271657	1.52	50.0	11/25/20
20K1242-05 [Topsoil Comp 4]	B271657	1.50	50.0	11/25/20
20K1242-06 [Topsoil Comp 5]	B271657	1.48	50.0	11/25/20

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
20K1242-01 [Topsoil Comp 1]	B271634	20.0	11/24/20
20K1242-02 [Topsoil Comp 2]	B271634	20.0	11/24/20
20K1242-03 [Topsoil Comp 3]	B271634	20.0	11/24/20
20K1242-04 [Sand Comp 3]	B271634	20.0	11/24/20
20K1242-05 [Topsoil Comp 4]	B271634	20.0	11/24/20
20K1242-06 [Topsoil Comp 5]	B271634	20.0	11/24/20

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B271657 - SW-846 3051										
Blank (B271657-BLK1)										
					Prepared: 11/25/20 Analyzed: 11/29/20					
Potassium	ND	170	mg/Kg wet							
LCS (B271657-BS1)										
					Prepared: 11/25/20 Analyzed: 11/30/20					
Potassium	2560	500	mg/Kg wet	2050		125	69.8-129.8			
LCS Dup (B271657-BSD1)										
					Prepared: 11/25/20 Analyzed: 11/30/20					
Potassium	2680	490	mg/Kg wet	2050		131	* 69.8-129.8	4.30	30	L-07

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B271634 - SW-846 9045C										
LCS (B271634-BS1)				Prepared & Analyzed: 11/24/20						
pH	6.01		pH Units	6.00		100	90-110			
Duplicate (B271634-DUP1)				Source: 20K1242-06		Prepared & Analyzed: 11/24/20				
pH	5.9		pH Units		6.0			2.51	10.7	
Batch B271638 - SW 846 9060A										
Blank (B271638-BLK1)				Prepared & Analyzed: 11/30/20						
Total Organic Carbon	ND	100	mg/Kg							
LCS (B271638-BS1)				Prepared & Analyzed: 11/30/20						
Total Organic Carbon	721	100	mg/Kg	750		96.1	65.8-127			
LCS Dup (B271638-BSD1)				Prepared & Analyzed: 11/30/20						
Total Organic Carbon	767	100	mg/Kg	750		102	65.8-127	6.19	11.4	
Duplicate (B271638-DUP1)				Source: 20K1242-01		Prepared & Analyzed: 11/30/20				
Total Organic Carbon	3930	100	mg/Kg		5960			41.2	57.3	
Matrix Spike (B271638-MS1)				Prepared & Analyzed: 11/30/20						
Total Organic Carbon	10900	100	mg/Kg	750	5960	660 *	85-115			MS-11
Batch B271642 - NECi N07-0003 Modified										
Blank (B271642-BLK1)				Prepared & Analyzed: 11/25/20						
Nitrate as N	ND	2.5	mg/Kg							
LCS (B271642-BS1)				Prepared & Analyzed: 11/25/20						
Nitrate as N	130	2.5	mg/Kg	125		101	90-110			
LCS Dup (B271642-BSD1)				Prepared & Analyzed: 11/25/20						
Nitrate as N	130	2.5	mg/Kg	125		103	90-110	1.60	20	
Batch B271664 - SM21-22 4500 NH3 C Modified										
Blank (B271664-BLK1)				Prepared & Analyzed: 11/25/20						
Ammonia as N	ND	30	mg/Kg wet							
LCS (B271664-BS1)				Prepared & Analyzed: 11/25/20						
Ammonia as N	480	30	mg/Kg wet	500		97.0	86.9-110			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B271664 - SM21-22 4500 NH3 C Modified										
LCS Dup (B271664-BSD1)				Prepared & Analyzed: 11/25/20						
Ammonia as N	530	30	mg/Kg wet	500		106	86.9-110	8.68	9.37	
Duplicate (B271664-DUP1)				Source: 20K1242-01		Prepared & Analyzed: 11/25/20				
Ammonia as N	ND	54	mg/Kg dry		ND			NC	15.9	
Matrix Spike (B271664-MS1)				Source: 20K1242-01		Prepared & Analyzed: 11/25/20				
Ammonia as N	380	55	mg/Kg dry	369	27	95.5	56.6-141			
Batch B271688 - SM19-22 4500-N Org B,C-NH3 C Modified										
Blank (B271688-BLK1)				Prepared: 11/25/20 Analyzed: 11/29/20						
Total Kjeldahl Nitrogen	ND	5.0	mg/Kg wet							
LCS (B271688-BS1)				Prepared: 11/25/20 Analyzed: 11/29/20						
Total Kjeldahl Nitrogen	100	5.0	mg/Kg wet	100		101	87.2-113			
Batch B271711 - SM 21-22 4500 P E Modified										
Blank (B271711-BLK1)				Prepared: 11/25/20 Analyzed: 11/30/20						
Phosphorus, Total	ND	2.5	mg/Kg wet							
LCS (B271711-BS1)				Prepared: 11/25/20 Analyzed: 11/30/20						
Phosphorus, Total	14	2.5	mg/Kg wet	13.2		109	82.6-116			
LCS Dup (B271711-BSD1)				Prepared: 11/25/20 Analyzed: 11/30/20						
Phosphorus, Total	14	2.5	mg/Kg wet	13.2		106	82.6-116	2.93	20.4	
Duplicate (B271711-DUP1)				Source: 20K1242-06		Prepared: 11/25/20 Analyzed: 11/30/20				
Phosphorus, Total	17	4.5	mg/Kg dry		15			10.4	52.3	
Matrix Spike (B271711-MS1)				Source: 20K1242-06		Prepared: 11/25/20 Analyzed: 11/30/20				
Phosphorus, Total	51	4.6	mg/Kg dry	27.5	15	130	24.1-165			

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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.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-11	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 4500 NH3 C Modified in Soil	
Ammonia as N	NC
SW 846 9060A in Soil	
Total Organic Carbon	NY,CT,ME,VA,NH
SW-846 6010D in Soil	
Potassium	CT,NH,NY,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2021
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2021
FL	Florida Department of Health	E871027 NELAP	06/30/2021
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2021
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2021
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2021
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client WTC

Received By [Signature] Date 11/24/20 Time 1735

How were the samples received? In Cooler _____ No Cooler T On Ice _____ No Ice T
Direct from Sampling T Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 4.6
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? n/a Were Samples Tampered with? n/a
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T

Are there Short Holds? T

Is there enough Volume? T

Is there Headspace where applicable? n/a

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? _____

Who was notified? _____

Who was notified? David, Alex

Who was notified? David

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid n/a Base n/a

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear <u>18</u>
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments: