Internal Standard Area Summary

Job Number: JD25514
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Check Std:	G1G5676-CC5651	**Injection Date:**	06/01/21
Lab File ID:	1G166710.D	**Injection Time:**	11:46
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	228551522	1.87	946931022	1.58
Upper Limit [a]	457103044	2.37	1893862044	2.08
Lower Limit [b]	114275761	1.37	473465511	1.08

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP33490-MB1	247283474	1.87	985344488	1.58
JD25514-5	237750193	1.87	994525363	1.58
JD25514-10	226575270	1.87	983260488	1.58
OP33490-MS	233599090	1.87	984146959	1.58
OP33490-MSD	228621852	1.87	815312532	1.58
ZZZZZZ	238017776	1.87	1041345967	1.58

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

8.5.1
8

Internal Standard Area Summary

Job Number: JD25514
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Check Std:	G8G1593-CC1478	**Injection Date:**	06/01/21
Lab File ID:	8G38016.D	**Injection Time:**	13:25
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	927131723	2.35	208106786	1.88
Upper Limit [a]	1854263446	2.85	416213572	2.38
Lower Limit [b]	463565862	1.85	104053393	1.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP33490-BS1	819792895	2.35	180187141	1.87
OP33490-MB1	854011019	2.35	189562659	1.88
JD25514-4	825627568	2.35	186351423	1.88
JD25514-7	793613983	2.35	183110264	1.87
JD25514-8	803146100	2.35	180429431	1.87
DA34569-1	1046973122	2.36	138193817	1.88
ZZZZZZ	805401996	2.35	177508447	1.88
ZZZZZZ	842661199	2.35	192344208	1.88
ZZZZZZ	832869458	2.35	190545670	1.87
ZZZZZZ	792530389	2.35	178177010	1.87
ZZZZZZ	803676331	2.35	187816664	1.87

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

8.5.2
8

DDT/Endrin Breakdown Check

Job Number: JD25514
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G1G5651-DDT	**Injection Date:**	05/13/21
Lab File ID:	1G166078.D	**Injection Time:**	22:34
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	10771314	2325568
4,4'-DDE	19628625	4369331
4,4'-DDT	1543508901	381988516
DDT Breakdown [a]	1.9 %	1.7 %
Endrin aldehyde	0	0
Endrin ketone	5280959	23049144
Endrin	893692316	244261824
Endrin Breakdown [b]	0.6 %	8.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G5651-IC5651	1G166080.D	05/13/21	23:11	00:37	Initial cal 1
G1G5651-IC5651	1G166081.D	05/13/21	23:29	00:55	Initial cal 2
G1G5651-IC5651	1G166082.D	05/13/21	23:48	01:14	Initial cal 5
G1G5651-IC5651	1G166083.D	05/14/21	00:06	01:32	Initial cal 10
G1G5651-ICC5651	1G166084.D	05/14/21	00:24	01:50	Initial cal 25
G1G5651-IC5651	1G166085.D	05/14/21	00:43	02:09	Initial cal 50
G1G5651-IC5651	1G166086.D	05/14/21	01:01	02:27	Initial cal 75
G1G5651-IC5651	1G166087.D	05/14/21	01:19	02:45	Initial cal 100
G1G5651-IC5651	1G166088.D	05/14/21	01:38	03:04	Initial cal 500
G1G5651-IC5651	1G166089.D	05/14/21	01:56	03:22	Initial cal 500
G1G5651-ICV5651	1G166091.D	05/14/21	02:33	03:59	Initial cal verification 500
G1G5651-ICV5651	1G166092.D	05/14/21	02:51	04:17	Initial cal verification 500
G1G5651-ICV5651	1G166093.D	05/14/21	03:09	04:35	Initial cal verification 25
G1G5651-ICV5651	1G166094.D	05/14/21	03:28	04:54	Initial cal verification 25

8.6.1
8

DDT/Endrin Breakdown Check

Job Number: JD25514
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G1G5676-DDT	**Injection Date:**	06/01/21
Lab File ID:	1G166709.D	**Injection Time:**	11:27
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	34854191	8254005
4,4'-DDE	27422851	7536825
4,4'-DDT	1593946539	376697738
DDT Breakdown [a]	3.8 %	4 %
Endrin aldehyde	0	0
Endrin ketone	15626391	2834539
Endrin	984844163	251290526
Endrin Breakdown [b]	1.6 %	1.1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G5676-CC5651	1G166710.D	06/01/21	11:46	00:19	Continuing cal 50
OP33490-MB1	1G166712.D	06/01/21	12:23	00:56	Method Blank
JD25514-5	1G166714.D	06/01/21	13:05	01:38	L1985-8-S3
JD25514-10	1G166715.D	06/01/21	13:23	01:56	L1985-6MW-S3
OP33490-MS	1G166716.D	06/01/21	13:55	02:28	Matrix Spike
OP33490-MSD	1G166717.D	06/01/21	14:13	02:46	Matrix Spike Duplicate
ZZZZZZ	1G166719.D	06/01/21	15:29	04:02	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD25514
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G8G1478-DDT	**Injection Date:**	02/10/21
Lab File ID:	8G35810.D	**Injection Time:**	21:20
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	4646452	16613996
4,4'-DDE	3624468	16515408
4,4'-DDT	301383294	1335582732
DDT Breakdown [a]	2.7 %	2.4 %
Endrin aldehyde	0	0
Endrin ketone	1547092	5671697
Endrin	159411387	796924784
Endrin Breakdown [b]	1 %	0.7 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1478-IC1478	8G35813.D	02/10/21	23:40	02:20	Initial cal 1
G8G1478-IC1478	8G35814.D	02/10/21	23:58	02:38	Initial cal 2
G8G1478-IC1478	8G35815.D	02/11/21	00:14	02:54	Initial cal 5
G8G1478-IC1478	8G35816.D	02/11/21	00:30	03:10	Initial cal 10
G8G1478-ICC1478	8G35817.D	02/11/21	00:47	03:27	Initial cal 25
G8G1478-IC1478	8G35818.D	02/11/21	01:03	03:43	Initial cal 50
G8G1478-IC1478	8G35819.D	02/11/21	01:19	03:59	Initial cal 75
G8G1478-IC1478	8G35820.D	02/11/21	01:36	04:16	Initial cal 100
G8G1478-IC1478	8G35821.D	02/11/21	01:52	04:32	Initial cal 500
G8G1478-IC1478	8G35822.D	02/11/21	02:08	04:48	Initial cal 500
G8G1478-ICV1478	8G35823.D	02/11/21	02:26	05:06	Initial cal verification 25
G8G1478-ICV1478	8G35824.D	02/11/21	02:43	05:23	Initial cal verification 500
G8G1478-ICV1478	8G35825.D	02/11/21	02:59	05:39	Initial cal verification 500
G8G1478-ICV1478	8G35826.D	02/11/21	03:15	05:55	Initial cal verification 50
G8G1479-CC1478	8G35827.D	02/11/21	03:31	06:11	Continuing cal 25
G8G1479-CC1478	8G35828.D	02/11/21	03:48	06:28	Continuing cal 500
G8G1479-CC1478	8G35829.D	02/11/21	04:04	06:44	Continuing cal 500
OP31544-MB1	8G35831.D	02/11/21	04:37	07:17	Method Blank
OP31544-BS1	8G35832.D	02/11/21	04:55	07:35	Blank Spike
OP31544-BSD	8G35833.D	02/11/21	05:11	07:51	Blank Spike Duplicate
JD18877-26	8G35834.D	02/11/21	05:28	08:08	(used for QC only; not part of job JD25514)
OP31544-MS	8G35835.D	02/11/21	05:44	08:24	Matrix Spike
OP31544-MSD	8G35836.D	02/11/21	06:00	08:40	Matrix Spike Duplicate
ZZZZZZ	8G35837.D	02/11/21	06:17	08:57	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD25514
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G8G1478-DDT	**Injection Date:**	02/10/21
Lab File ID:	8G35810.D	**Injection Time:**	21:20
Instrument ID:	GC8G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1479-CC1478	8G35840.D	02/11/21	07:05	09:45	Continuing cal 50

DDT/Endrin Breakdown Check

Job Number: JD25514
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G8G1593-DDT	**Injection Date:**	06/01/21
Lab File ID:	8G38015.D	**Injection Time:**	13:03
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2784194	11509047
4,4'-DDE	9491517	33128434
4,4'-DDT	404024543	1318667657
DDT Breakdown [a]	2.9 %	3.3 %
Endrin aldehyde	0	0
Endrin ketone	2954475	5028614
Endrin	225455504	794296389
Endrin Breakdown [b]	1.3 %	0.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1593-CC1478	8G38016.D	06/01/21	13:25	00:22	Continuing cal 50
OP33490-BS1	8G38018.D	06/01/21	13:59	00:56	Blank Spike
OP33490-MB1	8G38019.D	06/01/21	14:21	01:18	Method Blank
JD25514-4	8G38020.D	06/01/21	14:37	01:34	L1985-15-S1
JD25514-7	8G38021.D	06/01/21	14:53	01:50	L1985-10MW-S2
JD25514-8	8G38022.D	06/01/21	15:09	02:06	L1985-9-S1
DA34569-1	8G38023.D	06/01/21	15:28	02:25	(used for QC only; not part of job JD25514)
ZZZZZZ	8G38024.D	06/01/21	16:16	03:13	(unrelated sample)
ZZZZZZ	8G38025.D	06/01/21	16:33	03:30	(unrelated sample)
ZZZZZZ	8G38026.D	06/01/21	16:49	03:46	(unrelated sample)
ZZZZZZ	8G38027.D	06/01/21	17:05	04:02	(unrelated sample)
ZZZZZZ	8G38028.D	06/01/21	17:22	04:19	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD25514
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8151A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
JD25514-7	3G131851.D	63	52
JD25514-8	3G131815.D	102	48
OP33460-BS1	3G131844.D	82	68
OP33460-MB1	3G131790.D	119	69

Surrogate Compounds	Recovery Limits
S1 = 2,4-DCAA	10-132%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

Surrogate Recovery Summary

Job Number: JD25514
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD25514-4	8G38020.D	80	80	89	97
JD25514-5	1G166714.D	68	69	73	61
JD25514-7	8G38021.D	79	83	91	124
JD25514-8	8G38022.D	75	87	86	107
JD25514-10	1G166715.D	63	65	68	63
OP33490-BS1	8G38018.D	83	54	97	96
OP33490-MB1	1G166712.D	74	71	76	68
OP33490-MB1	8G38019.D	69	62	85	82
OP33490-MS	1G166716.D	66	67	72	67
OP33490-MSD	1G166717.D	76	71	88	69

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	27-138%
S2 = Decachlorobiphenyl	10-179%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

8.7.2
8

Surrogate Recovery Summary

Job Number: JD25514
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD25514-1	5G107198.D	92	102	106	118
JD25514-2	5G107201.D	84	91	101	101
JD25514-3	5G107202.D	80	91	93	97
JD25514-4	5G107208.D	83	91	94	103
JD25514-6	5G107209.D	87	95	100	105
OP33491-BS1	5G107197.D	80	86	97	103
OP33491-MB1	5G107196.D	77	89	91	97
OP33491-MS	5G107199.D	82	95	94	100
OP33491-MSD	5G107200.D	77	91	93	100

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	24-152%
S2 = Decachlorobiphenyl	10-172%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

8.7.3
8

Surrogate Recovery Summary

Job Number: JD25514
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: CT-ETPH **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
JD25514-1	8Y39442.D	65
JD25514-2	8Y39445.D	67
JD25514-3	8Y39446.D	72
JD25514-4	8Y39447.D	74
JD25514-5	8Y39448.D	63
JD25514-6	8Y39449.D	69
JD25514-7	8Y39450.D	72
JD25514-8	8Y39451.D	64
JD25514-9	8Y39452.D	59
JD25514-10	8Y39453.D	54
OP33509-BS1	8Y39440.D	71
OP33509-BSD	8Y39441.D	66
OP33509-MB1	8Y39439.D	76
OP33509-MB1	8Z39448.D	88
OP33509-MS	8Y39443.D	71
OP33509-MSD	8Y39444.D	73

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	30-130%

(a) Recovery from GC signal #1

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26698
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/26/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.92	8.1		
Antimony	2.0	.28	.41		
Arsenic	2.0	.26	.28	-0.18	<2.0
Barium	20	.02	1.9	0.010	<20
Beryllium	0.20	.02	.08		
Bismuth	2.0	.25	.52		
Boron	10	.18	1.5		
Cadmium	0.50	.04	.07	0.020	<0.50
Calcium	500	1.3	44		
Chromium	1.0	.07	.37	0.13	<1.0
Cobalt	5.0	.06	.28		
Copper	2.5	.07	.84	0.26	<2.5
Iron	50	.33	19		
Lead	2.0	.2	.41	-0.060	<2.0
Lithium	5.0	.15	.92		
Magnesium	500	2.5	14		
Manganese	1.5	.01	.41		
Molybdenum	2.0	.06	.32		
Nickel	4.0	.08	.35	0.060	<4.0
Phosphorus	20	.7	3.3		
Potassium	1000	3.5	32		
Selenium	2.0	.36	.65	-0.010	<2.0
Silicon	20	.22	11		
Silver	0.50	.06	.17	-0.060	<0.50
Sodium	1000	1.4	78		
Strontium	5.0	.01	.18		
Sulfur	10	.37	9.4		
Thallium	1.0	.52	.58		
Tin	20	.14	3.8		
Titanium	1.0	.08	.34		
Tungsten	5.0	.13	1.8		
Vanadium	5.0	.05	.19		
Zinc	5.0	.03	2.3	0.69	<5.0

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26698
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/26/21

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.0	.05	.23		

Associated samples MP26698: JD25514-4, JD25514-5, JD25514-6, JD25514-7, JD25514-8, JD25514-9, JD25514-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26698
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/26/21

Metal	JD25514-5 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr				
Antimony	anr				
Arsenic	0.72	205	214	95.5	75-125
Barium	22.1	222	214	93.5	75-125
Beryllium	anr				
Bismuth					
Boron					
Cadmium	0.0	201	214	94.0	75-125
Calcium	anr				
Chromium	3.9	204	214	93.6	75-125
Cobalt	anr				
Copper	3.4	203	214	93.3	75-125
Iron	anr				
Lead	2.3	217	214	100.4	75-125
Lithium					
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel	4.2	218	214	100.0	75-125
Phosphorus					
Potassium	anr				
Selenium	0.0	205	214	95.8	75-125
Silicon					
Silver	0.0	25.3	26.7	94.6	75-125
Sodium	anr				
Strontium					
Sulfur	anr				
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium	anr				
Zinc	9.6	214	214	95.6	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26698
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/26/21

Metal	JD25514-5 Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP26698: JD25514-4, JD25514-5, JD25514-6, JD25514-7, JD25514-8, JD25514-9, JD25514-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

9.1.2

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MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26698
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/26/21

Metal	JD25514-5 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	0.72	172	203	84.2	17.5	20
Barium	22.1	190	203	82.6	15.5	20
Beryllium	anr					
Bismuth						
Boron						
Cadmium	0.0	170	203	83.6	16.7	20
Calcium	anr					
Chromium	3.9	172	203	82.7	17.0	20
Cobalt	anr					
Copper	3.4	171	203	82.4	17.1	20
Iron	anr					
Lead	2.3	184	203	89.4	16.5	20
Lithium						
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	4.2	184	203	88.4	16.9	20
Phosphorus						
Potassium	anr					
Selenium	0.0	190	203	93.5	7.6	20
Silicon						
Silver	0.0	23.7	25.4	93.3	6.5	20
Sodium	anr					
Strontium						
Sulfur	anr					
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					
Zinc	9.6	182	203	84.8	16.2	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26698
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/26/21

Metal	JD25514-5 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP26698: JD25514-4, JD25514-5, JD25514-6, JD25514-7, JD25514-8, JD25514-9, JD25514-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26698
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/26/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	165	202	81.7	80-120
Barium	166	202	82.2	80-120
Beryllium	anr			
Bismuth				
Boron				
Cadmium	164	202	81.2	80-120
Calcium	anr			
Chromium	164	202	81.2	80-120
Cobalt	anr			
Copper	162	202	80.2	80-120
Iron	anr			
Lead	173	202	85.6	80-120
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	170	202	84.2	80-120
Phosphorus				
Potassium	anr			
Selenium	170	202	84.2	80-120
Silicon				
Silver	21.2	25.3	84.0	80-120
Sodium	anr			
Strontium				
Sulfur	anr			
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	168	202	83.2	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26698
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/26/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP26698: JD25514-4, JD25514-5, JD25514-6, JD25514-7, JD25514-8, JD25514-9, JD25514-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.1.3

9

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26698
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/26/21

Metal	JD25514-5 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	7.30	0.00	100.0(a)	0-10
Barium	224	220	1.7	0-10
Beryllium	anr			
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Chromium	39.2	42.3	7.9	0-10
Cobalt	anr			
Copper	34.4	116	238.4(a)	0-10
Iron	anr			
Lead	23.4	21.0	10.3 (a)	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	42.7	44.7	4.7	0-10
Phosphorus				
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium	anr			
Strontium				
Sulfur	anr			
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	97.2	104	6.6	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26698
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/26/21

Metal	JD25514-5 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP26698: JD25514-4, JD25514-5, JD25514-6, JD25514-7, JD25514-8, JD25514-9, JD25514-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26698
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/26/21

Metal	Sample ml	Final ml	JD25514-5 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Bismuth										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Lithium										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Phosphorus										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Strontium										
Sulfur										
Thallium										
Tin										
Titanium										
Tungsten										
Vanadium										
Zinc										

POST DIGESTATE SPIKE SUMMARY

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26698
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/26/21

Metal	Sample ml	Final ml	JD25514-5 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Zirconium										

Associated samples MP26698: JD25514-4, JD25514-5, JD25514-6, JD25514-7, JD25514-8, JD25514-9, JD25514-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

9.1.5

9

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26720 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 05/27/21

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0057	.015	-0.0021	<0.033

Associated samples MP26720: JD25514-4, JD25514-5, JD25514-6, JD25514-7, JD25514-8, JD25514-9, JD25514-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.2.1

9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26720
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/27/21

Metal	JD25514-5 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.0	0.35	0.308	113.6	80-120

Associated samples MP26720: JD25514-4, JD25514-5, JD25514-6, JD25514-7, JD25514-8, JD25514-9, JD25514-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

9.2.2
9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26720
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/27/21

Metal	JD25514-5 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.35	0.314	111.6	0.0	20

Associated samples MP26720: JD25514-4, JD25514-5, JD25514-6, JD25514-7, JD25514-8, JD25514-9, JD25514-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

9.2.2

9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25514
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26720
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/27/21

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.38	0.333	114.0	80-120

Associated samples MP26720: JD25514-4, JD25514-5, JD25514-6, JD25514-7, JD25514-8, JD25514-9, JD25514-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.2.3

9

Dayton, NJ

06/28/21

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Stantec

Eversource, Blue Hills Avenue Ext, Windsor, CT

STANCTH88836 PO#19562172

SGS Job Number: JD25514R

Sampling Date: 05/24/21

Report to:

Stantec

Melissa.Bezanson@stantec.com

ATTN: Melissa Bezanson

Total number of pages in report: 50

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.

Caitlin Brice, M.S.
General Manager

Client Service contact: Beth Wasserman 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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SGS LabLink@1104213 09:47 28-Jun-2021

Sample Summary

Stantec

Job No: JD25514R

Eversource, Blue Hills Avenue Ext, Windsor, CT
Project No: STANCTH88836 PO#19562172

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the RL							
JD25514-6R	05/24/21	09:00	MG	05/24/21	SO	Soil	L1985-3MW-S3
JD25514-7R	05/24/21	08:30	MG	05/24/21	SO	Soil	L1985-10MW-S2
JD25514-7RA	05/24/21	08:30	MG	05/24/21	SO	Soil	L1985-10MW-S2
JD25514-10R	05/24/21	13:00	MG	05/24/21	SO	Soil	L1985-6MW-S3

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

2

Client: Stantec **Job No** JD25514R

Site: Eversource, Blue Hills Avenue Ext, Windsor, CT **Report Date** 6/11/2021 1:31:17 PM

On 05/24/2021, 3 Sample(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.9 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD25514R 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.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: LEACHATE **Batch ID:** OP33705

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD25514-10RLS, JD25514-10RMS, JD25514-10RMSD, OP33705-MSMSD were used as the QC samples indicated.
- OP33705-LB8 for Tetrachloro-m-xylene: Outside of in house control limits.
- Not all RLs meet RCP requirement.

Metals Analysis By Method SW846 6010D

Matrix: LEACHATE **Batch ID:** MP26862

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD25514-7RMS, JD25514-7RMSD, JD25514-7RSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Barium, Chromium, Lead are outside control limits for sample MP26862-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Not all RLs meet RCP requirement.
- Only report requested metals.

Metals Analysis By Method SW846 7470A

Matrix: LEACHATE **Batch ID:** MP26883

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD25514-7RMS, JD25514-7RMSD were used as the QC samples for metals.

General Chemistry By Method SW846 1312

Matrix: ALL **Batch ID:** GN18783

- The data for SW846 1312 meets quality control requirements.

Matrix: ALL **Batch ID:** GN18839

- The data for SW846 1312 meets quality control requirements.

2

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

Summary of Hits

Job Number: JD25514R
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/24/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD25514-6R	**L1985-3MW-S3**					
pH, SPLP Leachate		7.30			su	SW846 1312
Volume, SPLP Leachate		2.003			l	SW846 1312
Weight, SPLP Leachate		0.1001			kg	SW846 1312
Dry Weight, SPLP Leachate		0.09694			kg	SW846 1312
JD25514-7R	**L1985-10MW-S2**					
pH, SPLP Leachate		9.38			su	SW846 1312
Volume, SPLP Leachate		2.004			l	SW846 1312
Weight, SPLP Leachate		0.1002			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08689			kg	SW846 1312
JD25514-7RA	**L1985-10MW-S2**					
No hits reported in this sample.						
JD25514-10R	**L1985-6MW-S3**					
pH, SPLP Leachate		7.51			su	SW846 1312
Volume, SPLP Leachate		2.001			l	SW846 1312
Weight, SPLP Leachate		0.1001			kg	SW846 1312
Dry Weight, SPLP Leachate		0.09587			kg	SW846 1312

Sample Results

Report of Analysis

SGS LabLink@1104213 09:47 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-3MW-S3
Lab Sample ID: JD25514-6R
Matrix: SO - Soil
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/24/21
Date Received: 05/24/21
Percent Solids: 96.8

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 100		100	ug/l	1	06/07/21	06/08/21	ND	SW846 6010D [2]	SW846 3010A [3]
Barium	< 200		200	ug/l	1	06/07/21	06/08/21	ND	SW846 6010D [2]	SW846 3010A [3]
Cadmium	< 4.0		4.0	ug/l	1	06/07/21	06/08/21	ND	SW846 6010D [2]	SW846 3010A [3]
Chromium	< 10		10	ug/l	1	06/07/21	06/08/21	ND	SW846 6010D [2]	SW846 3010A [3]
Lead	< 15		15	ug/l	1	06/07/21	06/08/21	ND	SW846 6010D [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	06/04/21	06/07/21	MC	SW846 7470A [1]	SW846 7471B [4]
Selenium	< 100		100	ug/l	1	06/07/21	06/08/21	ND	SW846 6010D [2]	SW846 3010A [3]
Silver	< 10		10	ug/l	1	06/07/21	06/08/21	ND	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA50638
(2) Instrument QC Batch: MA50651
(3) Prep QC Batch: MP26862
(4) Prep QC Batch: MP26883

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

SGS LabLink@1104213 09:47 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-3MW-S3		
Lab Sample ID:	JD25514-6R	**Date Sampled:**	05/24/21
Matrix:	SO - Soil	**Date Received:**	05/24/21
		Percent Solids:	96.8
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	7.30		su	1	06/05/21 16:35	BM	SW846 1312
Volume, SPLP Leachate	2.003		l	1	06/05/21 16:35	BM	SW846 1312
Weight, SPLP Leachate	0.1001		kg	1	06/05/21 16:35	BM	SW846 1312
Dry Weight, SPLP Leachate	0.09694		kg	1	06/05/21 16:35	BM	SW846 1312

RL = Reporting Limit

SGS LabLink@1104213 09:47 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-10MW-S2
Lab Sample ID: JD25514-7R
Matrix: SO - Soil
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/24/21
Date Received: 05/24/21
Percent Solids: 86.7

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 100		100	ug/l	1	06/07/21	06/08/21	ND	SW846 6010D [2]	SW846 3010A [3]
Barium	< 200		200	ug/l	1	06/07/21	06/08/21	ND	SW846 6010D [2]	SW846 3010A [3]
Cadmium	< 4.0		4.0	ug/l	1	06/07/21	06/08/21	ND	SW846 6010D [2]	SW846 3010A [3]
Chromium	< 10		10	ug/l	1	06/07/21	06/08/21	ND	SW846 6010D [2]	SW846 3010A [3]
Lead	< 15		15	ug/l	1	06/07/21	06/08/21	ND	SW846 6010D [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	06/04/21	06/07/21	MC	SW846 7470A [1]	SW846 7471B [4]
Selenium	< 100		100	ug/l	1	06/07/21	06/08/21	ND	SW846 6010D [2]	SW846 3010A [3]
Silver	< 10		10	ug/l	1	06/07/21	06/08/21	ND	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA50638
(2) Instrument QC Batch: MA50651
(3) Prep QC Batch: MP26862
(4) Prep QC Batch: MP26883

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

SGS LabLink@1104213 09:47 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-10MW-S2		
Lab Sample ID:	JD25514-7R	**Date Sampled:**	05/24/21
Matrix:	SO - Soil	**Date Received:**	05/24/21
		Percent Solids:	86.7
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	9.38		su	1	06/05/21 16:35	BM	SW846 1312
Volume, SPLP Leachate	2.004		l	1	06/05/21 16:35	BM	SW846 1312
Weight, SPLP Leachate	0.1002		kg	1	06/05/21 16:35	BM	SW846 1312
Dry Weight, SPLP Leachate	0.08689		kg	1	06/05/21 16:35	BM	SW846 1312

RL = Reporting Limit

SGS LabLink@1104213 09:47 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-10MW-S2
Lab Sample ID: JD25514-7RA
Matrix: SO - Soil
Method: SW846 8081B SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/24/21
Date Received: 05/24/21
Percent Solids: 86.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G166952.D	1	06/11/21 03:32	CP	06/10/21 12:15	OP33705	G1G5688
Run #2							

	Initial Volume	Final Volume
Run #1	500 ml	5.0 ml
Run #2		

Pesticide RCP List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
309-00-2	Aldrin	ND		0.000010	mg/l	
15972-60-8	Alachlor	ND		0.00010	mg/l	
319-84-6	alpha-BHC	ND		0.000010	mg/l	
319-85-7	beta-BHC	ND		0.000010	mg/l	
319-86-8	delta-BHC	ND		0.000010	mg/l	
58-89-9	gamma-BHC (Lindane)	ND		0.000010	mg/l	
12789-03-6	Chlordane	ND		0.00050	mg/l	
60-57-1	Dieldrin	ND		0.000010	mg/l	
72-54-8	4,4'-DDD	ND		0.000010	mg/l	
72-55-9	4,4'-DDE	ND		0.000010	mg/l	
50-29-3	4,4'-DDT	ND		0.000010	mg/l	
72-20-8	Endrin	ND		0.000010	mg/l	
1031-07-8	Endosulfan sulfate	ND		0.000010	mg/l	
7421-93-4	Endrin aldehyde	ND		0.000010	mg/l	
53494-70-5	Endrin ketone	ND		0.000010	mg/l	
959-98-8	Endosulfan-I	ND		0.000010	mg/l	
33213-65-9	Endosulfan-II	ND		0.000010	mg/l	
76-44-8	Heptachlor	ND		0.000010	mg/l	
1024-57-3	Heptachlor epoxide	ND		0.000010	mg/l	
72-43-5	Methoxychlor	ND		0.000020	mg/l	
8001-35-2	Toxaphene	ND		0.00025	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		30-137%
877-09-8	Tetrachloro-m-xylene	96%		30-137%
2051-24-3	Decachlorobiphenyl	61%		10-137%
2051-24-3	Decachlorobiphenyl	59%		10-137%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:47 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-6MW-S3
Lab Sample ID: JD25514-10R
Matrix: SO - Soil
Method: SW846 8081B SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/24/21
Date Received: 05/24/21
Percent Solids: 95.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G166953.D	1	06/11/21 03:51	CP	06/10/21 12:15	OP33705	G1G5688
Run #2							

	Initial Volume	Final Volume
Run #1	500 ml	5.0 ml
Run #2		

Pesticide RCP List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
309-00-2	Aldrin	ND		0.000010	mg/l	
15972-60-8	Alachlor	ND		0.00010	mg/l	
319-84-6	alpha-BHC	ND		0.000010	mg/l	
319-85-7	beta-BHC	ND		0.000010	mg/l	
319-86-8	delta-BHC	ND		0.000010	mg/l	
58-89-9	gamma-BHC (Lindane)	ND		0.000010	mg/l	
12789-03-6	Chlordane	ND		0.00050	mg/l	
60-57-1	Dieldrin	ND		0.000010	mg/l	
72-54-8	4,4'-DDD	ND		0.000010	mg/l	
72-55-9	4,4'-DDE	ND		0.000010	mg/l	
50-29-3	4,4'-DDT	ND		0.000010	mg/l	
72-20-8	Endrin	ND		0.000010	mg/l	
1031-07-8	Endosulfan sulfate	ND		0.000010	mg/l	
7421-93-4	Endrin aldehyde	ND		0.000010	mg/l	
53494-70-5	Endrin ketone	ND		0.000010	mg/l	
959-98-8	Endosulfan-I	ND		0.000010	mg/l	
33213-65-9	Endosulfan-II	ND		0.000010	mg/l	
76-44-8	Heptachlor	ND		0.000010	mg/l	
1024-57-3	Heptachlor epoxide	ND		0.000010	mg/l	
72-43-5	Methoxychlor	ND		0.000020	mg/l	
8001-35-2	Toxaphene	ND		0.00025	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		30-137%
877-09-8	Tetrachloro-m-xylene	87%		30-137%
2051-24-3	Decachlorobiphenyl	26%		10-137%
2051-24-3	Decachlorobiphenyl	42%		10-137%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:47 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-6MW-S3		
Lab Sample ID:	JD25514-10R	**Date Sampled:**	05/24/21
Matrix:	SO - Soil	**Date Received:**	05/24/21
		Percent Solids:	95.8
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	7.51		su	1	06/08/21 11:55	BM	SW846 1312
Volume, SPLP Leachate	2.001		l	1	06/08/21 11:55	BM	SW846 1312
Weight, SPLP Leachate	0.1001		kg	1	06/08/21 11:55	BM	SW846 1312
Dry Weight, SPLP Leachate	0.09587		kg	1	06/08/21 11:55	BM	SW846 1312

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

Parameter Certification Exceptions

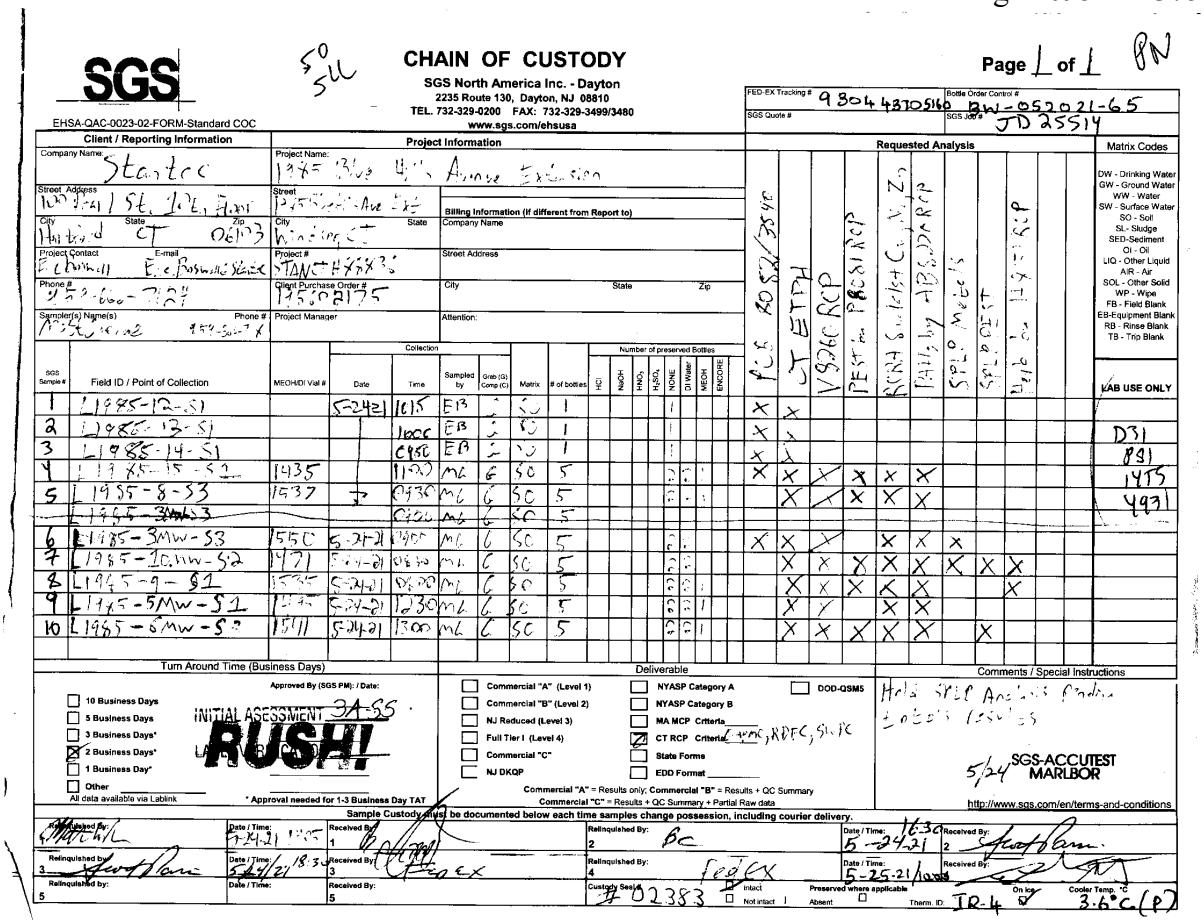
Job Number: JD25514R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Alachlor	15972-60-8	**SW846 8081B**	LEAC	SGS is not certified for this parameter.[a]

(a) Analyte is in applied status with NJDEP for this reference method.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.



SGS

EHSA-QAC-0023-02-FORM-Standard COC

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

Page 1 of 1

FED-EX Tracking # 930443705140 | Bottle Order Control # BW-052021-65
SGS Quote # | SGS Job # JD25514

Client / Reporting Information

Company Name: Stantec
Street Address: 100 Great Meadow Rd, 10th Floor
City: Hartford State: CT Zip: 06103
Project Contact: E. Cornwall E-mail: E.Cornwall@stantec.com
Phone #: 917-656-7327 Sampler(s) Name(s): Phone #:

Project Information

Project Name: 1345 Blue Hills Avenue Extension
Street: 1345 Blue Hills Ave Ext
City: Windsor State: CT
Project #: STANCTHAR3
Client Purchase Order #: 195502175
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis

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	Grab (G) Comp (C)	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	PCB 8052/3545	TCL ETPH	VOC 8260 RCP	PEST on PCB RCP	SVOC 8270 RCP	TAL, Hg, ABS, DOX RCP	Sp. Gr. Metals	Sp. Gr. Dust	Asbestos	LAB USE ONLY
1	L1985-12-S1		5-24-21	1015	EB	C	SO	1					1				X	X								
2	L1985-13-S1			1005	EB	C	SO	1					1				X	X								D31
3	L1985-14-S1			0950	EB	C	SO	1					1				X	X								891
4	L1985-15-S2	1435		1120	ML	G	SO	5									X	X	X	X	X	X				1475
5	L1985-8-S3	1537		0930	ML	G	SO	5									X	X	X	X	X	X				4991
	~~L1985-3MW-S3~~			0920	ML	G	SO	5																		
6	L1985-3MW-S3	1550	5-24-21	1400	ML	G	SO	5									X	X	X		X	X	X			
7	L1985-10MW-S2	1471	5-24-21	0830	ML	G	SO	5										X	X	X	X	X	X	X	X	
8	L1985-9-S1	1544	5-24-21	0930	ML	G	SO	5										X	X	X	X	X			X	
9	L1985-5MW-S1	1545	5-24-21	1230	ML	G	SO	5										X	X		X	X				
10	L1985-8MW-S2	1511	5-24-21	1300	ML	G	SO	5										X	X	X	X	X		X		

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [x] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other _____

All data available via Lablink

INITIAL ASSESSMENT 5-25-21
RUSH!
LAB USE ONLY

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [x] CT RCP Criteria (4 yrs), RDEC, SL-PC
- [ ] State Forms
- [ ] EDD Format _____
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Hold SPLP Analysis Pending Lab's Results

5/24 SGS-ACCUTEST MARLBOR

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:
1		5-24-21 1105	
2	Bc	5-24-21 1630	
3		5/24/21 1813	FedEx
4	FedEx	5-25-21 1000	
5			

Custody Seal # 702383 Intact / Not Intact | Preserved where applicable / Absent | Therm. ID: IR-4 | On Ice | Cooler Temp. °C: 3.6°C (P)

5.2 5

JD25514R: Chain of Custody
Page 1 of 5

SGS Sample Receipt Summary

Job Number: JD25514 **Client:** STANTEC **Project:** EVERSOURCE, BLUE HILLS AVENUE EXT, WI

Date / Time Received: 5/24/2021 6:30:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (2.9);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

5.2
5

SGS Sample Receipt Summary

Job Number: JD25514 **Client:** Stantec **Project:** 1985 Blue Hills Avenue Extension

Date / Time Received: 5/24/2021 **Delivery Method:** FedEx **Airbill #'s:** 9304 4310 5160

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	IR Gun
3. Cooler media:	Ice (bag)
4. No. Coolers:	1

Quality Control ,Preservation	Y or N	N/A
1. Trip Blank present / cooler:	☐ ☑	☐
2. Trip Blank listed on COC:	☐ ☑	☐
3. Samples preserved properly:	☑ ☐	
4. VOCs headspace free:	☐ ☐	☑

Sample Integrity - Documentation	Y or N
1. Sample labels present on bottles:	☑ ☐
2. Container labeling complete:	☑ ☐
3. Sample container label / COC agree:	☐ ☑

Sample Integrity - Condition	Y or N
1. Sample recvd within HT:	☑ ☐
2. All containers accounted for:	☑ ☐
3. Condition of sample:	Intact

Sample Integrity - Instructions	Y or N	N/A
1. Analysis requested is clear:	☑ ☐	
2. Bottles received for unspecified tests	☐ ☑	
3. Sufficient volume recvd for analysis:	☑ ☐	
4. Compositing instructions clear:	☐ ☐	☑
5. Filtering instructions clear:	☐ ☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify) _____ _____

Comments Sample -1: Received 1 x 16oz jar of soil labeled with ID L1985-14-S1. Collection time/date OK as 5/24/21 10:15. L1985-14-S1 already accounted for as sample -3.

SM089-03
Rev. Date 12/7/17

5.2
5

Job Change Order: JD25514

Requested Date:	5/25/2021	**Received Date:**	5/24/2021
Account Name:	Stantec	**Due Date:**	5/26/2021
Project Description:	Eversource, Blue Hills Avenue Ext, Windsor, CT	**Deliverable:**	CTRCP
C/O Initiated By:	KRISTIND	**TAT (Days):**	7
	PM: BW		

Sample #: JD25514-ALL

Dept:

TAT: 7

Change:
Please revise to 7 day TAT per rush pre-approval.

Above Changes Per: Lab

Date/Time: 5/25/2021 12:03:05 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.2 5

JD25514R: Chain of Custody
Page 4 of 5

Job Change Order: JD25514

Requested Date: 6/3/2021 **Received Date:** 5/24/2021
Account Name: Stantec **Due Date:** 6/1/2021
Project Description: Eversource, Blue Hills Avenue Ext, Windsor, CT **Deliverable:** CTRCP
C/O Initiated By: BETHW **PM:** BW **TAT (Days):** 3

Sample #: JD25514-6 **Change:**
Dept: Relog for SPLPM, SPLPE, SPLPRATIO on3 day TAT
TAT: 3

L1985-3MW-S3

Sample #: JD25514-7 **Change:**
Dept: Relog for SPLPM, SPLPE, SPLPRATIO on 3 day TAT, relog for P8081SPLPRCP on 7 day TAT
TAT: 7

L1985-10MW-S2

Sample #: JD25514-10 **Change:**
Dept: Relog for P8081SPLPRCP, SPLPE, SPLPRATIO on 7 day TAT
TAT: 7

L1985-6MW-S3

Above Changes Per: Eric Boswell **Date/Time:** 6/3/2021 2:36:14 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.2 5

JD25514R: Chain of Custody
Page 5 of 5

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **Stantec**

Project Location: **Eversource, Blue Hills Avenue Ext, Windsor, CT** **Project Number:**

Sampling Date(s): **5/24/2021**

Laboratory Sample ID(s): JD25514-6R, JD25514-7R, JD25514-10R, JD25514-7RA

Methods: EPA 160.3 M, SW846 1312, SW846 6010D, SW846 7470A, SW846 8081B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☐ No ☑
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

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

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Caitlin Brice Position: General Manager

Printed Name: Caitlin Brice Date: 6/11/2021

SGS North America Inc.

Internal Sample Tracking Chronicle

Stantec

Job No: JD25514R

Eversource, Blue Hills Avenue Ext, Windsor, CT
Project No: STANCTH88836 PO#19562172

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD25514-6R	Collected: 24-MAY-21 09:00 By: MG		Received: 24-MAY-21 By: DG			
L1985-3MW-S3						
JD25514-6R	SW846 1312	05-JUN-21 16:35	BM			SPLPRATIO
JD25514-6R	SW846 7470A	07-JUN-21 15:58	MC	04-JUN-21	MS	EHG
JD25514-6R	SW846 6010D	08-JUN-21 22:11	ND	07-JUN-21	SF	EAG,EAS,EBA,ECD,ECR,EPB,ESE
JD25514-7R	Collected: 24-MAY-21 08:30 By: MG		Received: 24-MAY-21 By: DG			
L1985-10MW-S2						
JD25514-7R	SW846 1312	05-JUN-21 16:35	BM			SPLPRATIO
JD25514-7R	SW846 7470A	07-JUN-21 15:57	MC	04-JUN-21	MS	EHG
JD25514-7R	SW846 6010D	08-JUN-21 22:01	ND	07-JUN-21	SF	EAG,EAS,EBA,ECD,ECR,EPB,ESE
JD25514-10R	Collected: 24-MAY-21 13:00 By: MG		Received: 24-MAY-21 By: DG			
L1985-6MW-S3						
JD25514-10R	SW846 1312	08-JUN-21 11:55	BM			SPLPRATIO
JD25514-10R	SW846 8081B	11-JUN-21 03:51	CP	10-JUN-21	LJ	P8081SPLPRCP
JD25514-7RA	Collected: 24-MAY-21 08:30 By: MG		Received: 24-MAY-21 By: DG			
L1985-10MW-S2						
JD25514-7RA	SW846 8081B	11-JUN-21 03:32	CP	10-JUN-21	LJ	P8081SPLPRCP

QC Evaluation: CT RCP Limits

Job Number: JD25514R
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/24/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No CT RCP Limits Found.

* Sample used for QC is not from job JD25514R

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD25514R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33705-MB1	1G166947.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25514-10R, JD25514-7RA

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.010	ug/l	
15972-60-8	Alachlor	ND	0.10	ug/l	
319-84-6	alpha-BHC	ND	0.010	ug/l	
319-85-7	beta-BHC	ND	0.010	ug/l	
319-86-8	delta-BHC	ND	0.010	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	ug/l	
12789-03-6	Chlordane	ND	0.50	ug/l	
60-57-1	Dieldrin	ND	0.010	ug/l	
72-54-8	4,4'-DDD	ND	0.010	ug/l	
72-55-9	4,4'-DDE	ND	0.010	ug/l	
50-29-3	4,4'-DDT	ND	0.010	ug/l	
72-20-8	Endrin	ND	0.010	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	ug/l	
53494-70-5	Endrin ketone	ND	0.010	ug/l	
959-98-8	Endosulfan-I	ND	0.010	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	ug/l	
76-44-8	Heptachlor	ND	0.010	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	ug/l	
72-43-5	Methoxychlor	ND	0.020	ug/l	
8001-35-2	Toxaphene	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	103%	30-137%
877-09-8	Tetrachloro-m-xylene	105%	30-137%
2051-24-3	Decachlorobiphenyl	63%	10-137%
2051-24-3	Decachlorobiphenyl	62%	10-137%

Leachate Blank Summary

Job Number: JD25514R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33705-LB6	1G166950.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25514-10R, JD25514-7RA

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.010	ug/l	
15972-60-8	Alachlor	ND	0.10	ug/l	
319-84-6	alpha-BHC	ND	0.010	ug/l	
319-85-7	beta-BHC	ND	0.010	ug/l	
319-86-8	delta-BHC	ND	0.010	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	ug/l	
12789-03-6	Chlordane	ND	0.50	ug/l	
60-57-1	Dieldrin	ND	0.010	ug/l	
72-54-8	4,4'-DDD	ND	0.010	ug/l	
72-55-9	4,4'-DDE	ND	0.010	ug/l	
50-29-3	4,4'-DDT	ND	0.010	ug/l	
72-20-8	Endrin	ND	0.010	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	ug/l	
53494-70-5	Endrin ketone	ND	0.010	ug/l	
959-98-8	Endosulfan-I	ND	0.010	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	ug/l	
76-44-8	Heptachlor	ND	0.010	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	ug/l	
72-43-5	Methoxychlor	ND	0.020	ug/l	
8001-35-2	Toxaphene	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	102%	30-137%
877-09-8	Tetrachloro-m-xylene	105%	30-137%
2051-24-3	Decachlorobiphenyl	77%	10-137%
2051-24-3	Decachlorobiphenyl	81%	10-137%

Leachate Blank Summary

Job Number: JD25514R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33705-LB8	1G166951.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25514-10R, JD25514-7RA

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.010	ug/l	
15972-60-8	Alachlor	ND	0.10	ug/l	
319-84-6	alpha-BHC	ND	0.010	ug/l	
319-85-7	beta-BHC	ND	0.010	ug/l	
319-86-8	delta-BHC	ND	0.010	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	ug/l	
12789-03-6	Chlordane	ND	0.50	ug/l	
60-57-1	Dieldrin	ND	0.010	ug/l	
72-54-8	4,4'-DDD	ND	0.010	ug/l	
72-55-9	4,4'-DDE	ND	0.010	ug/l	
50-29-3	4,4'-DDT	ND	0.010	ug/l	
72-20-8	Endrin	ND	0.010	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	ug/l	
53494-70-5	Endrin ketone	ND	0.010	ug/l	
959-98-8	Endosulfan-I	ND	0.010	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	ug/l	
76-44-8	Heptachlor	ND	0.010	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	ug/l	
72-43-5	Methoxychlor	ND	0.020	ug/l	
8001-35-2	Toxaphene	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	24%* [a]	30-137%
877-09-8	Tetrachloro-m-xylene	42%	30-137%
2051-24-3	Decachlorobiphenyl	19%	10-137%
2051-24-3	Decachlorobiphenyl	23%	10-137%

(a) Outside of in house control limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD25514R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33705-BS1	1G166948.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688
OP33705-BSD	1G166949.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25514-10R, JD25514-7RA

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	0.5	0.54	108	0.53	106	0	21-164/30
15972-60-8	Alachlor	0.5	0.46	92	0.48	96	4	50-150/30 [a]
319-84-6	alpha-BHC	0.5	0.55	110	0.56	112	2	37-180/30
319-85-7	beta-BHC	0.5	0.54	108	0.55	110	2	44-168/30
319-86-8	delta-BHC	0.5	0.54	108	0.53	106	2	27-189/30
58-89-9	gamma-BHC (Lindane)	0.5	0.54	108	0.55	110	2	37-178/30
60-57-1	Dieldrin	0.5	0.55	110	0.55	110	0	44-177/30
72-54-8	4,4'-DDD	0.5	0.53	106	0.53	106	0	42-183/30
72-55-9	4,4'-DDE	0.5	0.55	110	0.54	108	2	39-179/30
50-29-3	4,4'-DDT	0.5	0.54	108	0.55	110	2	39-190/30
72-20-8	Endrin	0.5	0.54	108	0.54	108	0	45-182/30
1031-07-8	Endosulfan sulfate	0.5	0.48	96	0.48	96	0	45-184/30
7421-93-4	Endrin aldehyde	0.5	0.57	114	0.54	108	5	42-167/30
53494-70-5	Endrin ketone	0.5	0.55	110	0.55	110	0	39-190/30
959-98-8	Endosulfan-I	0.5	0.53	106	0.53	106	0	40-172/30
33213-65-9	Endosulfan-II	0.5	0.53	106	0.53	106	0	41-174/30
76-44-8	Heptachlor	0.5	0.53	106	0.52	104	2	26-172/30
1024-57-3	Heptachlor epoxide	0.5	0.53	106	0.53	106	0	43-173/30
72-43-5	Methoxychlor	0.5	0.56	112	0.54	108	4	40-192/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	91%	97%	30-137%
877-09-8	Tetrachloro-m-xylene	92%	98%	30-137%
2051-24-3	Decachlorobiphenyl	59%	63%	10-137%
2051-24-3	Decachlorobiphenyl	58%	62%	10-137%

(a) Advisory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD25514R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33705-MS	1G166954.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688
OP33705-MSD	1G166955.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688
JD25514-10R	1G166953.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25514-10R, JD25514-7RA

CAS No.	Compound	JD25514-10R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		0.5	0.56	112	0.5	0.63	126	12	34-144/96
15972-60-8	Alachlor	ND		0.5	0.47	94	0.5	0.61	122	26	50-150/30 [a]
319-84-6	alpha-BHC	ND		0.5	0.59	118	0.5	0.65	130	10	43-160/95
319-85-7	beta-BHC	ND		0.5	0.56	112	0.5	0.66	132	16	40-162/99
319-86-8	delta-BHC	ND		0.5	0.70	140	0.5	0.79	158	12	43-167/97
58-89-9	gamma-BHC (Lindane)	ND		0.5	0.58	116	0.5	0.67	134	14	39-160/97
12789-03-6	Chlordane	ND			ND			ND		nc	81-123/10
60-57-1	Dieldrin	ND		0.5	0.60	120	0.5	0.68	136	13	41-161/94
72-54-8	4,4'-DDD	ND		0.5	0.58	116	0.5	0.64	128	10	39-167/97
72-55-9	4,4'-DDE	ND		0.5	0.58	116	0.5	0.64	128	10	37-156/94
50-29-3	4,4'-DDT	ND		0.5	0.53	106	0.5	0.64	128	19	34-172/99
72-20-8	Endrin	ND		0.5	0.59	118	0.5	0.67	134	13	43-169/95
1031-07-8	Endosulfan sulfate	ND		0.5	0.53	106	0.5	0.59	118	11	40-179/95
7421-93-4	Endrin aldehyde	ND		0.5	0.63	126	0.5	0.73	146	15	40-154/94
53494-70-5	Endrin ketone	ND		0.5	0.63	126	0.5	0.70	140	11	48-173/93
959-98-8	Endosulfan-I	ND		0.5	0.55	110	0.5	0.63	126	14	42-154/95
33213-65-9	Endosulfan-II	ND		0.5	0.57	114	0.5	0.64	128	12	42-159/94
76-44-8	Heptachlor	ND		0.5	0.55	110	0.5	0.62	124	12	35-152/102
1024-57-3	Heptachlor epoxide	ND		0.5	0.57	114	0.5	0.64	128	12	42-159/96
72-43-5	Methoxychlor	ND		0.5	0.51	102	0.5	0.58	116	13	47-170/99
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/8

CAS No.	Surrogate Recoveries	MS	MSD	JD25514-10R	Limits
877-09-8	Tetrachloro-m-xylene	93%	108%	86%	30-137%
877-09-8	Tetrachloro-m-xylene	93%	110%	87%	30-137%
2051-24-3	Decachlorobiphenyl	46%	53%	26%	10-137%
2051-24-3	Decachlorobiphenyl	43%	48%	42%	10-137%

(a) Advisory control limits.

* = Outside of Control Limits.

Leachate Spike Summary

Job Number: JD25514R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33705-LS6	1G166954.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688
JD25514-10R	1G166953.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25514-10R, JD25514-7RA

CAS No.	Compound	JD25514-10R ug/l	Q	Spike ug/l	LS ug/l	LS %	Limits
309-00-2	Aldrin	ND		0.5	0.56	112	34-144
15972-60-8	Alachlor	ND		0.5	0.47	94	50-150 [a]
319-84-6	alpha-BHC	ND		0.5	0.59	118	43-160
319-85-7	beta-BHC	ND		0.5	0.56	112	40-162
319-86-8	delta-BHC	ND		0.5	0.70	140	43-167
58-89-9	gamma-BHC (Lindane)	ND		0.5	0.58	116	39-160
12789-03-6	Chlordane	ND			ND		81-123
60-57-1	Dieldrin	ND		0.5	0.60	120	41-161
72-54-8	4,4'-DDD	ND		0.5	0.58	116	39-167
72-55-9	4,4'-DDE	ND		0.5	0.58	116	37-156
50-29-3	4,4'-DDT	ND		0.5	0.53	106	34-172
72-20-8	Endrin	ND		0.5	0.59	118	43-169
1031-07-8	Endosulfan sulfate	ND		0.5	0.53	106	40-179
7421-93-4	Endrin aldehyde	ND		0.5	0.63	126	40-154
53494-70-5	Endrin ketone	ND		0.5	0.63	126	48-173
959-98-8	Endosulfan-I	ND		0.5	0.55	110	42-154
33213-65-9	Endosulfan-II	ND		0.5	0.57	114	42-159
76-44-8	Heptachlor	ND		0.5	0.55	110	35-152
1024-57-3	Heptachlor epoxide	ND		0.5	0.57	114	42-159
72-43-5	Methoxychlor	ND		0.5	0.51	102	47-170
8001-35-2	Toxaphene	ND			ND		50-150

CAS No.	Surrogate Recoveries	LS	JD25514-10R	Limits
877-09-8	Tetrachloro-m-xylene	93%	86%	30-137%
877-09-8	Tetrachloro-m-xylene	93%	87%	30-137%
2051-24-3	Decachlorobiphenyl	46%	26%	10-137%
2051-24-3	Decachlorobiphenyl	43%	42%	10-137%

(a) Advisory control limits.

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD25514R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Check Std:	G1G5688-CC5651	**Injection Date:**	06/11/21
Lab File ID:	1G166945.D	**Injection Time:**	01:24
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	233000222	1.87	1015986812	1.58
Upper Limit [a]	466000444	2.37	2031973624	2.08
Lower Limit [b]	116500111	1.37	507993406	1.08

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP33705-MB1	216066024	1.87	886971656	1.58
OP33705-BS1	221321565	1.87	910751078	1.58
OP33705-BSD	219350565	1.87	918225775	1.59
OP33705-LB6	206797989	1.87	924909198	1.58
OP33705-LB8	280284341	1.87	1606182525	1.58
JD25514-7RA	225320438	1.87	914630970	1.58
JD25514-10R	213056778	1.87	852327263	1.59
OP33705-LS6	211190413	1.87	837322209	1.58
OP33705-MS	211190413	1.87	837322209	1.58
OP33705-MSD	205148506	1.87	800041903	1.58
ZZZZZZ	212870446	1.87	879626992	1.58

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

DDT/Endrin Breakdown Check

Job Number: JD25514R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G1G5651-DDT	**Injection Date:**	05/13/21
Lab File ID:	1G166078.D	**Injection Time:**	22:34
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	10771314	2325568
4,4'-DDE	19628625	4369331
4,4'-DDT	1543508901	381988516
DDT Breakdown [a]	1.9 %	1.7 %
Endrin aldehyde	0	0
Endrin ketone	5280959	23049144
Endrin	893692316	244261824
Endrin Breakdown [b]	0.6 %	8.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G5651-IC5651	1G166080.D	05/13/21	23:11	00:37	Initial cal 1
G1G5651-IC5651	1G166081.D	05/13/21	23:29	00:55	Initial cal 2
G1G5651-IC5651	1G166082.D	05/13/21	23:48	01:14	Initial cal 5
G1G5651-IC5651	1G166083.D	05/14/21	00:06	01:32	Initial cal 10
G1G5651-ICC5651	1G166084.D	05/14/21	00:24	01:50	Initial cal 25
G1G5651-IC5651	1G166085.D	05/14/21	00:43	02:09	Initial cal 50
G1G5651-IC5651	1G166086.D	05/14/21	01:01	02:27	Initial cal 75
G1G5651-IC5651	1G166087.D	05/14/21	01:19	02:45	Initial cal 100
G1G5651-IC5651	1G166088.D	05/14/21	01:38	03:04	Initial cal 500
G1G5651-IC5651	1G166089.D	05/14/21	01:56	03:22	Initial cal 500
G1G5651-ICV5651	1G166091.D	05/14/21	02:33	03:59	Initial cal verification 500
G1G5651-ICV5651	1G166092.D	05/14/21	02:51	04:17	Initial cal verification 500
G1G5651-ICV5651	1G166093.D	05/14/21	03:09	04:35	Initial cal verification 25
G1G5651-ICV5651	1G166094.D	05/14/21	03:28	04:54	Initial cal verification 25

DDT/Endrin Breakdown Check

Job Number: JD25514R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G1G5688-DDT	**Injection Date:**	06/10/21
Lab File ID:	1G166940.D	**Injection Time:**	22:35
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	18255136	4579630
4,4'-DDE	25638016	6062369
4,4'-DDT	1403481164	360794906
DDT Breakdown [a]	3 %	2.9 %
Endrin aldehyde	6283010	1606850
Endrin ketone	4329832	27881676
Endrin	872530010	246244186
Endrin Breakdown [b]	1.2 %	10.7 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G5688-CC5651	1G166941.D	06/10/21	22:54	00:19	Continuing cal 50
ZZZZZZ	1G166943.D	06/10/21	23:38	01:03	(unrelated sample)
ZZZZZZ	1G166944.D	06/10/21	23:56	01:21	(unrelated sample)
G1G5688-CC5651	1G166945.D	06/11/21	01:24	02:49	Continuing cal 25
OP33705-MB1	1G166947.D	06/11/21	02:01	03:26	Method Blank
OP33705-BS1	1G166948.D	06/11/21	02:19	03:44	Blank Spike
OP33705-BSD	1G166949.D	06/11/21	02:37	04:02	Blank Spike Duplicate
OP33705-LB6	1G166950.D	06/11/21	02:56	04:21	Leachate Blank
OP33705-LB8	1G166951.D	06/11/21	03:14	04:39	Leachate Blank
JD25514-7RA	1G166952.D	06/11/21	03:32	04:57	L1985-10MW-S2
JD25514-10R	1G166953.D	06/11/21	03:51	05:16	L1985-6MW-S3
OP33705-MS	1G166954.D	06/11/21	04:09	05:34	Matrix Spike
OP33705-LS6	1G166954.D	06/11/21	04:09	05:34	Leachate Spike
OP33705-MSD	1G166955.D	06/11/21	04:27	05:52	Matrix Spike Duplicate
ZZZZZZ	1G166956.D	06/11/21	04:46	06:11	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD25514R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8081B **Matrix:** LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD25514-10R	1G166953.D	86	87	26	42
JD25514-7RA	1G166952.D	98	96	61	59
OP33705-BS1	1G166948.D	91	92	59	58
OP33705-BSD	1G166949.D	97	98	63	62
OP33705-LB6	1G166950.D	102	105	77	81
OP33705-LB8	1G166951.D	24* [c]	42	19	23
OP33705-LS6	1G166954.D	93	93	46	43
OP33705-MB1	1G166947.D	103	105	63	62
OP33705-MS	1G166954.D	93	93	46	43
OP33705-MSD	1G166955.D	108	110	53	48

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	30-137%
S2 = Decachlorobiphenyl	10-137%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside of in house control limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25514R
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26862
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/07/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	46		
Antimony	100	2.5	4.7		
Arsenic	100	2	2.8	0.10	<100
Barium	200	.4	13	3.8	<200
Beryllium	2.0	.1	.5		
Bismuth	20	3.6	4		
Boron	100	1.9	63		
Cadmium	4.0	.4	1	0.0	<4.0
Calcium	5000	5.6	99		
Chromium	10	.5	2	0.30	<10
Cobalt	50	.5	2.6		
Copper	10	1	5.9		
Iron	100	11	32		
Lead	100	1.2	1.8	0.90	<100
Lithium	50	2.3	7.3		
Magnesium	5000	65	140		
Manganese	15	.2	1.4		
Molybdenum	20	.4	3.6		
Nickel	10	.3	1.7		
Phosphorus	50	4.1	18		
Potassium	10000	55	200		
Selenium	100	3.5	4.9	-2.4	<100
Silicon	200	1.6	100		
Silver	10	1.1	1.9	-0.30	<10
Sodium	10000	11	570		
Strontium	10	.1	1		
Sulfur	50	4.4	45		
Thallium	100	2.5	1.8		
Tin	10	1	3.7		
Titanium	10	.4	2.5		
Tungsten	50	2.8	40		
Vanadium	50	.6	1.8		
Zinc	20	.1	6.9		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25514R
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26862 Methods: SW846 6010D
Matrix Type: LEACHATE Units: ug/l

Prep Date: 06/07/21

Metal	RL	IDL	MDL	MB raw	final
Zirconium	10	.4	4.1		

Associated samples MP26862: JD25514-6R, JD25514-7R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD25514R
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26862
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/07/21

Metal	JD25514-7R Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	2.8	1900	2000	94.9	75-125
Barium	11.0	1930	2000	96.0	75-125
Beryllium					
Bismuth					
Boron					
Cadmium	0.0	1950	2000	97.5	75-125
Calcium					
Chromium	2.4	1940	2000	96.9	75-125
Cobalt					
Copper					
Iron					
Lead	5.4	1940	2000	96.7	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium	0.0	1820	2000	91.0	75-125
Silicon					
Silver	0.0	230	250	92.0	75-125
Sodium					
Strontium					
Sulfur					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium					
Zinc					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD25514R
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26862
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/07/21

Metal	JD25514-7R Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP26862: JD25514-6R, JD25514-7R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

7.1.2

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD25514R
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26862
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/07/21

Metal	JD25514-7R Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	2.8	1920	2000	95.9	1.0	20
Barium	11.0	1950	2000	97.0	1.0	20
Beryllium						
Bismuth						
Boron						
Cadmium	0.0	1960	2000	98.0	0.5	20
Calcium						
Chromium	2.4	1970	2000	98.4	1.5	20
Cobalt						
Copper						
Iron						
Lead	5.4	1960	2000	97.7	1.0	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium	0.0	1810	2000	90.5	0.6	20
Silicon						
Silver	0.0	230	250	92.0	0.0	20
Sodium						
Strontium						
Sulfur						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD25514R
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26862
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/07/21

Metal	JD25514-7R Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP26862: JD25514-6R, JD25514-7R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25514R
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26862
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/07/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	1900	2000	95.0	80-120
Barium	1930	2000	96.5	80-120
Beryllium				
Bismuth				
Boron				
Cadmium	1950	2000	97.5	80-120
Calcium				
Chromium	1960	2000	98.0	80-120
Cobalt				
Copper				
Iron				
Lead	1960	2000	98.0	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium	1810	2000	90.5	80-120
Silicon				
Silver	233	250	93.2	80-120
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25514R
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26862
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/07/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP26862: JD25514-6R, JD25514-7R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.1.3
7

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD25514R
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26862
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/07/21

Metal	JD25514-7R Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	2.80	0.00	100.0(a)	0-10
Barium	11.0	12.9	17.3 (a)	0-10
Beryllium				
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	2.40	0.00	100.0(a)	0-10
Cobalt				
Copper				
Iron				
Lead	5.40	6.40	18.5 (a)	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD25514R
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26862 Methods: SW846 6010D
Matrix Type: LEACHATE Units: ug/l

Prep Date: 06/07/21

Metal	JD25514-7R Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP26862: JD25514-6R, JD25514-7R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

7.1.4

7

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25514R
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26883 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 06/04/21

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00020	.000034	.000095	0.000036	<0.00020

Associated samples MP26883: JD25514-6R, JD25514-7R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD25514R
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26883
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/04/21

Metal	JD25514-7R Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	0.0018	0.0020	90.0	75-125

Associated samples MP26883: JD25514-6R, JD25514-7R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD25514R
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26883
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/04/21

Metal	JD25514-7R Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.0021	0.0020	105.0	15.4	20

Associated samples MP26883: JD25514-6R, JD25514-7R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

7.2.2
7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25514R
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26883
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/04/21

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0021	0.0020	105.0	80-120

Associated samples MP26883: JD25514-6R, JD25514-7R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.2.3
7

SGS

Dayton, NJ

06/28/21

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Stantec

Eversource, Blue Hills Avenue Ext, Windsor, CT

STANCTH88836 PO#

SGS Job Number: JD25566

Sampling Date: 05/25/21



Report to:

Stantec

Melissa.Bezanson@stantec.com

ATTN: Melissa Bezanson

Total number of pages in report: 135

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.

Caitlin Brice, M.S.
General Manager

Client Service contact: Beth Wasserman 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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SGS LabLink@1104213 09:30 28-Jun-2021

Sample Summary

Stantec

Job No: JD25566

Eversource, Blue Hills Avenue Ext, Windsor, CT
Project No: STANCTH88836 PO#

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the RL							
JD25566-1	05/25/21	09:00	MG	05/25/21	SO	Soil	L1985-11-S1
JD25566-2	05/25/21	09:15	MG	05/25/21	SO	Soil	L1985-7-S2
JD25566-3	05/25/21	09:30	MG	05/25/21	SO	Soil	L1985-1-S2
JD25566-4	05/25/21	09:45	MG	05/25/21	SO	Soil	L1985-2-S3
JD25566-5	05/25/21	10:00	MG	05/25/21	SO	Soil	L1985-4-S2
JD25566-6	05/25/21	10:15	MG	05/25/21	AQ	Equipment Blank	EQUIP BLANK
JD25566-7	05/25/21	10:15	MG	05/25/21	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

2

Client: Stantec **Job No** JD25566

Site: Eversource, Blue Hills Avenue Ext, Windsor, CT **Report Date** 6/2/2021 4:13:02 PM

On 05/25/2021, 6 Sample(s), 1 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD25566 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.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V1A9124

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD25566-6 for Hexachlorobutadiene: Associated CCV outside of control limits low.
- JD25566-6 for trans-1,4-Dichloro-2-Butene: Associated CCV outside of control limits low.
- JD25566-6 for Acetone: Associated CCV outside of control limits low.
- V1A9124-MB for Vinyl chloride: MDL from current instrument.
- V1A9124-MB for 1,1,2,2-Tetrachloroethane: MDL from current instrument.
- V1A9124-MB for Dibromochloromethane: MDL from current instrument.

Matrix: SO **Batch ID:** V1C7785

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD25566-7 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD25566-2 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD25566-4 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD25566-5 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD25566-1 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD25566-3 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.

MS Semi-volatiles By Method SW846 8270E

Matrix: AQ **Batch ID:** OP33518

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD25566-6 for Indeno(1,2,3-cd)pyrene: Quadratic regression was employed for this compound in associated ICAL.
- Only report PAHs.

Matrix: SO **Batch ID:** OP33486

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Only report PAHs.

GC/LC Semi-volatiles By Method CT-ETPH

Matrix: SO **Batch ID:** OP33509

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: AQ **Batch ID:** OP33552

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD25566-6 for Endrin ketone: This compound is outside the RCP limits in the associated BSD biased high.

Matrix: SO **Batch ID:** OP33490

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- OP33490-BS1 for Dieldrin: Reported from 2nd signal due to interference. 1st signal used for confirmation.
- JD25566-1 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP26732

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD25642-3SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Nickel, Zinc are outside control limits for sample MP26732-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only report requested metals.

Matrix: SO **Batch ID:** MP26699

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD25544-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Silver are outside control limits for sample MP26699-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP26699-SD1 for Zinc: Serial dilution indicates possible matrix interference.
- Only report requested metals.

Metals Analysis By Method SW846 7470A

Matrix: AQ **Batch ID:** MP26746

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method SW846 7471B

Matrix: SO **Batch ID:** MP26722

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2540 G 18TH ED MOD

2

Matrix:	SO	Batch ID:	GN18526

- Sample(s) JD25566-1DUP were used as the QC samples for Solids, Percent.

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

Summary of Hits

Job Number: JD25566
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/25/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD25566-1	**L1985-11-S1**					
Benzo(b)fluoranthene		40.9	36		ug/kg	SW846 8270E
Fluoranthene		45.6	36		ug/kg	SW846 8270E
Pyrene		55.4	36		ug/kg	SW846 8270E
CT-DRO (C9-C36)		34.1	7.0		mg/kg	CT-ETPH
4,4'-DDT [a]		2.5	0.74		ug/kg	SW846 8081B
Arsenic		3.0	2.2		mg/kg	SW846 6010D
Barium		23.0	22		mg/kg	SW846 6010D
Chromium		12.9	1.1		mg/kg	SW846 6010D
Copper		10.9	2.8		mg/kg	SW846 6010D
Lead		8.2	2.2		mg/kg	SW846 6010D
Nickel		10.1	4.5		mg/kg	SW846 6010D
Silver		0.69	0.56		mg/kg	SW846 6010D
Zinc		35.9	5.6		mg/kg	SW846 6010D
JD25566-2	**L1985-7-S2**					
Benzo(b)fluoranthene		41.8	34		ug/kg	SW846 8270E
Fluoranthene		58.9	34		ug/kg	SW846 8270E
Phenanthrene		34.4	34		ug/kg	SW846 8270E
Pyrene		59.5	34		ug/kg	SW846 8270E
4,4'-DDE		2.6	0.66		ug/kg	SW846 8081B
4,4'-DDT		3.6	0.66		ug/kg	SW846 8081B
Heptachlor epoxide		1.1	0.66		ug/kg	SW846 8081B
Chromium		5.9	1.1		mg/kg	SW846 6010D
Copper		4.9	2.7		mg/kg	SW846 6010D
Lead		4.3	2.2		mg/kg	SW846 6010D
Nickel		21.8	4.3		mg/kg	SW846 6010D
Zinc		18.3	5.4		mg/kg	SW846 6010D
JD25566-3	**L1985-1-S2**					
CT-DRO (C9-C36)		16.0	6.8		mg/kg	CT-ETPH
Chromium		3.6	1.0		mg/kg	SW846 6010D
Copper		6.5	2.6		mg/kg	SW846 6010D
Lead		4.1	2.1		mg/kg	SW846 6010D
Zinc		15.2	5.2		mg/kg	SW846 6010D
JD25566-4	**L1985-2-S3**					
Arsenic		1.5	1.4		mg/kg	SW846 6010D
Barium		16.3	14		mg/kg	SW846 6010D
Chromium		5.4	0.71		mg/kg	SW846 6010D
Copper		5.7	1.8		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD25566
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/25/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Lead		2.7	1.4		mg/kg	SW846 6010D
Nickel		5.0	2.8		mg/kg	SW846 6010D
Silver		0.38	0.35		mg/kg	SW846 6010D
Zinc		13.6	3.5		mg/kg	SW846 6010D
JD25566-5	**L1985-4-S2**					
Chromium		3.9	1.1		mg/kg	SW846 6010D
Copper		4.0	2.7		mg/kg	SW846 6010D
Lead		2.3	2.2		mg/kg	SW846 6010D
Nickel		4.8	4.3		mg/kg	SW846 6010D
Zinc		9.6	5.4		mg/kg	SW846 6010D
JD25566-6	**EQUIP BLANK**					
No hits reported in this sample.						
JD25566-7	**TRIP BLANK**					
Acetone		10.7	10		ug/kg	SW846 8260D

(a) More than 40 % RPD for detected concentrations between the two GC columns.

Sample Results

Report of Analysis

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-11-S1
Lab Sample ID: JD25566-1
Matrix: SO - Soil
Method: SW846 8260D
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 87.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C178388.D	1	05/26/21 17:23	PS	n/a	n/a	V1C7785
Run #2							

	Initial Weight
Run #1	8.0 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	7.1	ug/kg	
107-13-1	Acrylonitrile	ND	7.1	ug/kg	
71-43-2	Benzene	ND	0.36	ug/kg	
108-86-1	Bromobenzene	ND	3.6	ug/kg	
75-27-4	Bromodichloromethane	ND	1.4	ug/kg	
75-25-2	Bromoform	ND	3.6	ug/kg	
74-83-9	Bromomethane	ND	3.6	ug/kg	
78-93-3	2-Butanone (MEK) [a]	ND	7.1	ug/kg	
104-51-8	n-Butylbenzene	ND	1.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	1.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	1.4	ug/kg	
75-15-0	Carbon disulfide	ND	1.4	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	1.4	ug/kg	
75-00-3	Chloroethane	ND	3.6	ug/kg	
67-66-3	Chloroform	ND	1.4	ug/kg	
74-87-3	Chloromethane	ND	3.6	ug/kg	
95-49-8	o-Chlorotoluene	ND	1.4	ug/kg	
106-43-4	p-Chlorotoluene	ND	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.71	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.71	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.71	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.71	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	3.6	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.71	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.71	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.71	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.71	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.71	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-11-S1		
Lab Sample ID:	JD25566-1	**Date Sampled:**	05/25/21
Matrix:	SO - Soil	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	87.9
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	1.4	ug/kg	
594-20-7	2,2-Dichloropropane	ND	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	1.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	ug/kg	
100-41-4	Ethylbenzene	ND	0.71	ug/kg	
76-13-1	Freon 113	ND	3.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3.6	ug/kg	
591-78-6	2-Hexanone	ND	3.6	ug/kg	
98-82-8	Isopropylbenzene	ND	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	1.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.71	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	3.6	ug/kg	
74-95-3	Methylene bromide	ND	3.6	ug/kg	
75-09-2	Methylene chloride	ND	3.6	ug/kg	
91-20-3	Naphthalene	ND	3.6	ug/kg	
103-65-1	n-Propylbenzene	ND	1.4	ug/kg	
100-42-5	Styrene	ND	1.4	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.4	ug/kg	
127-18-4	Tetrachloroethene	ND	1.4	ug/kg	
109-99-9	Tetrahydrofuran	ND	7.1	ug/kg	
108-88-3	Toluene	ND	0.71	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	3.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.4	ug/kg	
79-01-6	Trichloroethene	ND	0.71	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	1.4	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	1.4	ug/kg	
75-01-4	Vinyl chloride	ND	1.4	ug/kg	
	m,p-Xylene	ND	0.71	ug/kg	
95-47-6	o-Xylene	ND	0.71	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-11-S1		
Lab Sample ID:	JD25566-1	**Date Sampled:**	05/25/21
Matrix:	SO - Soil	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	87.9
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		75-131%
2037-26-5	Toluene-D8	104%		81-121%
460-00-4	4-Bromofluorobenzene	100%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-11-S1
Lab Sample ID: JD25566-1
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 87.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M173087.D	1	05/28/21 04:17	CS	05/27/21 10:00	OP33486	EM7415
Run #2							

	Initial Weight	Final Volume
Run #1	31.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	36	ug/kg	
208-96-8	Acenaphthylene	ND	36	ug/kg	
120-12-7	Anthracene	ND	36	ug/kg	
56-55-3	Benzo(a)anthracene	ND	36	ug/kg	
50-32-8	Benzo(a)pyrene	ND	36	ug/kg	
205-99-2	Benzo(b)fluoranthene	40.9	36	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	ug/kg	
218-01-9	Chrysene	ND	36	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	ug/kg	
206-44-0	Fluoranthene	45.6	36	ug/kg	
86-73-7	Fluorene	ND	36	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	ug/kg	
91-20-3	Naphthalene	ND	36	ug/kg	
85-01-8	Phenanthrene	ND	36	ug/kg	
129-00-0	Pyrene	55.4	36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		7-101%
4165-62-2	Phenol-d5	60%		12-101%
118-79-6	2,4,6-Tribromophenol	84%		10-127%
4165-60-0	Nitrobenzene-d5	69%		15-114%
321-60-8	2-Fluorobiphenyl	71%		22-104%
1718-51-0	Terphenyl-d14	74%		23-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-11-S1
Lab Sample ID: JD25566-1
Matrix: SO - Soil
Method: SW846 8081B SW846 3546
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 87.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G38024.D	1	06/01/21 16:16	KLS	05/27/21 09:40	OP33490	G8G1593
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.74	ug/kg	
15972-60-8	Alachlor	ND	7.4	ug/kg	
319-84-6	alpha-BHC	ND	0.74	ug/kg	
319-85-7	beta-BHC	ND	0.74	ug/kg	
319-86-8	delta-BHC	ND	0.74	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.74	ug/kg	
12789-03-6	Chlordane	ND	37	ug/kg	
60-57-1	Dieldrin	ND	0.74	ug/kg	
72-54-8	4,4'-DDD	ND	0.74	ug/kg	
72-55-9	4,4'-DDE	ND	0.74	ug/kg	
50-29-3	4,4'-DDT [a]	2.5	0.74	ug/kg	
72-20-8	Endrin	ND	0.74	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.74	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.74	ug/kg	
959-98-8	Endosulfan-I	ND	0.74	ug/kg	
33213-65-9	Endosulfan-II	ND	0.74	ug/kg	
76-44-8	Heptachlor	ND	0.74	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.74	ug/kg	
72-43-5	Methoxychlor	ND	1.5	ug/kg	
53494-70-5	Endrin ketone	ND	0.74	ug/kg	
8001-35-2	Toxaphene	ND	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		27-138%
877-09-8	Tetrachloro-m-xylene	80%		27-138%
2051-24-3	Decachlorobiphenyl	84%		10-179%
2051-24-3	Decachlorobiphenyl	108%		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-11-S1
Lab Sample ID: JD25566-1
Matrix: SO - Soil
Method: CT-ETPH SW846 3546
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 87.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z39449.D	1	05/28/21 08:40	CP	05/27/21 10:00	OP33509	G8Z1691
Run #2							

	Initial Weight	Final Volume
Run #1	16.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	34.1	7.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-11-S1
Lab Sample ID: JD25566-1
Matrix: SO - Soil
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 87.9

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.0	2.2	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	23.0	22	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.56	0.56	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	12.9	1.1	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	10.9	2.8	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	8.2	2.2	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.034	0.034	mg/kg	1	05/27/21	05/27/21	LL	SW846 7471B [1]	SW846 7471B [4]
Nickel	10.1	4.5	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	0.69	0.56	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	35.9	5.6	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50590
(2) Instrument QC Batch: MA50599
(3) Prep QC Batch: MP26699
(4) Prep QC Batch: MP26722

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	L1985-7-S2		
Lab Sample ID:	JD25566-2	**Date Sampled:**	05/25/21
Matrix:	SO - Soil	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	93.4
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C178389.D	1	05/26/21 17:50	PS	n/a	n/a	V1C7785
Run #2							

	Initial Weight
Run #1	8.7 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	6.2	ug/kg	
107-13-1	Acrylonitrile	ND	6.2	ug/kg	
71-43-2	Benzene	ND	0.31	ug/kg	
108-86-1	Bromobenzene	ND	3.1	ug/kg	
75-27-4	Bromodichloromethane	ND	1.2	ug/kg	
75-25-2	Bromoform	ND	3.1	ug/kg	
74-83-9	Bromomethane	ND	3.1	ug/kg	
78-93-3	2-Butanone (MEK) [a]	ND	6.2	ug/kg	
104-51-8	n-Butylbenzene	ND	1.2	ug/kg	
135-98-8	sec-Butylbenzene	ND	1.2	ug/kg	
98-06-6	tert-Butylbenzene	ND	1.2	ug/kg	
75-15-0	Carbon disulfide	ND	1.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	1.2	ug/kg	
75-00-3	Chloroethane	ND	3.1	ug/kg	
67-66-3	Chloroform	ND	1.2	ug/kg	
74-87-3	Chloromethane	ND	3.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	1.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.62	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.62	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.62	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.62	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	3.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.62	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.62	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.62	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.62	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.62	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-7-S2		
Lab Sample ID:	JD25566-2	**Date Sampled:**	05/25/21
Matrix:	SO - Soil	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	93.4
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	1.2	ug/kg	
594-20-7	2,2-Dichloropropane	ND	1.2	ug/kg	
563-58-6	1,1-Dichloropropene	ND	1.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	0.62	ug/kg	
76-13-1	Freon 113	ND	3.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3.1	ug/kg	
591-78-6	2-Hexanone	ND	3.1	ug/kg	
98-82-8	Isopropylbenzene	ND	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	1.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.62	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	3.1	ug/kg	
74-95-3	Methylene bromide	ND	3.1	ug/kg	
75-09-2	Methylene chloride	ND	3.1	ug/kg	
91-20-3	Naphthalene	ND	3.1	ug/kg	
103-65-1	n-Propylbenzene	ND	1.2	ug/kg	
100-42-5	Styrene	ND	1.2	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	ug/kg	
127-18-4	Tetrachloroethene	ND	1.2	ug/kg	
109-99-9	Tetrahydrofuran	ND	6.2	ug/kg	
108-88-3	Toluene	ND	0.62	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	3.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.2	ug/kg	
79-01-6	Trichloroethene	ND	0.62	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	1.2	ug/kg	
75-01-4	Vinyl chloride	ND	1.2	ug/kg	
	m,p-Xylene	ND	0.62	ug/kg	
95-47-6	o-Xylene	ND	0.62	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-7-S2		
Lab Sample ID:	JD25566-2	**Date Sampled:**	05/25/21
Matrix:	SO - Soil	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	93.4
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		75-131%
2037-26-5	Toluene-D8	105%		81-121%
460-00-4	4-Bromofluorobenzene	100%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-7-S2
Lab Sample ID: JD25566-2
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 93.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M173084.D	1	05/28/21 02:56	CS	05/27/21 10:00	OP33486	EM7415
Run #2							

	Initial Weight	Final Volume
Run #1	31.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	34	ug/kg	
208-96-8	Acenaphthylene	ND	34	ug/kg	
120-12-7	Anthracene	ND	34	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	ug/kg	
205-99-2	Benzo(b)fluoranthene	41.8	34	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	ug/kg	
218-01-9	Chrysene	ND	34	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	ug/kg	
206-44-0	Fluoranthene	58.9	34	ug/kg	
86-73-7	Fluorene	ND	34	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	ug/kg	
91-20-3	Naphthalene	ND	34	ug/kg	
85-01-8	Phenanthrene	34.4	34	ug/kg	
129-00-0	Pyrene	59.5	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		7-101%
4165-62-2	Phenol-d5	63%		12-101%
118-79-6	2,4,6-Tribromophenol	83%		10-127%
4165-60-0	Nitrobenzene-d5	73%		15-114%
321-60-8	2-Fluorobiphenyl	79%		22-104%
1718-51-0	Terphenyl-d14	81%		23-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-7-S2
Lab Sample ID: JD25566-2
Matrix: SO - Soil
Method: SW846 8081B SW846 3546
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 93.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G38025.D	1	06/01/21 16:33	KLS	05/27/21 09:40	OP33490	G8G1593
Run #2							

	Initial Weight	Final Volume
Run #1	16.2 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.66	ug/kg	
15972-60-8	Alachlor	ND	6.6	ug/kg	
319-84-6	alpha-BHC	ND	0.66	ug/kg	
319-85-7	beta-BHC	ND	0.66	ug/kg	
319-86-8	delta-BHC	ND	0.66	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.66	ug/kg	
12789-03-6	Chlordane	ND	33	ug/kg	
60-57-1	Dieldrin	ND	0.66	ug/kg	
72-54-8	4,4'-DDD	ND	0.66	ug/kg	
72-55-9	4,4'-DDE	2.6	0.66	ug/kg	
50-29-3	4,4'-DDT	3.6	0.66	ug/kg	
72-20-8	Endrin	ND	0.66	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.66	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.66	ug/kg	
959-98-8	Endosulfan-I	ND	0.66	ug/kg	
33213-65-9	Endosulfan-II	ND	0.66	ug/kg	
76-44-8	Heptachlor	ND	0.66	ug/kg	
1024-57-3	Heptachlor epoxide	1.1	0.66	ug/kg	
72-43-5	Methoxychlor	ND	1.3	ug/kg	
53494-70-5	Endrin ketone	ND	0.66	ug/kg	
8001-35-2	Toxaphene	ND	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		27-138%
877-09-8	Tetrachloro-m-xylene	85%		27-138%
2051-24-3	Decachlorobiphenyl	113%		10-179%
2051-24-3	Decachlorobiphenyl	95%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-7-S2
Lab Sample ID: JD25566-2
Matrix: SO - Soil
Method: CT-ETPH SW846 3546
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 93.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z39450.D	1	05/28/21 09:21	CP	05/27/21 10:00	OP33509	G8Z1691
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	7.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-7-S2
Lab Sample ID: JD25566-2
Matrix: SO - Soil
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 93.4

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 2.2	2.2	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	< 22	22	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.54	0.54	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	5.9	1.1	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	4.9	2.7	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	4.3	2.2	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.032	0.032	mg/kg	1	05/27/21	05/27/21	LL	SW846 7471B [1]	SW846 7471B [4]
Nickel	21.8	4.3	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	18.3	5.4	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50590
(2) Instrument QC Batch: MA50599
(3) Prep QC Batch: MP26699
(4) Prep QC Batch: MP26722

RL = Reporting Limit

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Report of Analysis

Client Sample ID: L1985-1-S2
Lab Sample ID: JD25566-3
Matrix: SO - Soil
Method: SW846 8260D
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 94.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C178390.D	1	05/26/21 18:18	PS	n/a	n/a	V1C7785
Run #2							

	Initial Weight
Run #1	9.5 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.6	ug/kg	
107-13-1	Acrylonitrile	ND	5.6	ug/kg	
71-43-2	Benzene	ND	0.28	ug/kg	
108-86-1	Bromobenzene	ND	2.8	ug/kg	
75-27-4	Bromodichloromethane	ND	1.1	ug/kg	
75-25-2	Bromoform	ND	2.8	ug/kg	
74-83-9	Bromomethane	ND	2.8	ug/kg	
78-93-3	2-Butanone (MEK) [a]	ND	5.6	ug/kg	
104-51-8	n-Butylbenzene	ND	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	1.1	ug/kg	
75-15-0	Carbon disulfide	ND	1.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	1.1	ug/kg	
75-00-3	Chloroethane	ND	2.8	ug/kg	
67-66-3	Chloroform	ND	1.1	ug/kg	
74-87-3	Chloromethane	ND	2.8	ug/kg	
95-49-8	o-Chlorotoluene	ND	1.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	1.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.56	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.56	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.56	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.56	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	2.8	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.56	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.56	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.56	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.56	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.56	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-1-S2		
Lab Sample ID:	JD25566-3	**Date Sampled:**	05/25/21
Matrix:	SO - Soil	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	94.2
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.1	ug/kg	
142-28-9	1,3-Dichloropropane	ND	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	0.56	ug/kg	
76-13-1	Freon 113	ND	2.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2.8	ug/kg	
591-78-6	2-Hexanone	ND	2.8	ug/kg	
98-82-8	Isopropylbenzene	ND	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	1.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.56	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	2.8	ug/kg	
74-95-3	Methylene bromide	ND	2.8	ug/kg	
75-09-2	Methylene chloride	ND	2.8	ug/kg	
91-20-3	Naphthalene	ND	2.8	ug/kg	
103-65-1	n-Propylbenzene	ND	1.1	ug/kg	
100-42-5	Styrene	ND	1.1	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	ug/kg	
127-18-4	Tetrachloroethene	ND	1.1	ug/kg	
109-99-9	Tetrahydrofuran	ND	5.6	ug/kg	
108-88-3	Toluene	ND	0.56	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	2.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	2.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.1	ug/kg	
79-01-6	Trichloroethene	ND	0.56	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	2.8	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	ug/kg	
75-01-4	Vinyl chloride	ND	1.1	ug/kg	
	m,p-Xylene	ND	0.56	ug/kg	
95-47-6	o-Xylene	ND	0.56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-1-S2		
Lab Sample ID:	JD25566-3	**Date Sampled:**	05/25/21
Matrix:	SO - Soil	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	94.2
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		75-131%
2037-26-5	Toluene-D8	105%		81-121%
460-00-4	4-Bromofluorobenzene	98%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-1-S2
Lab Sample ID: JD25566-3
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 94.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M173085.D	1	05/28/21 03:23	CS	05/27/21 10:00	OP33486	EM7415
Run #2							

	Initial Weight	Final Volume
Run #1	31.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	33	ug/kg	
208-96-8	Acenaphthylene	ND	33	ug/kg	
120-12-7	Anthracene	ND	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	ug/kg	
218-01-9	Chrysene	ND	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	ug/kg	
206-44-0	Fluoranthene	ND	33	ug/kg	
86-73-7	Fluorene	ND	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	ug/kg	
91-20-3	Naphthalene	ND	33	ug/kg	
85-01-8	Phenanthrene	ND	33	ug/kg	
129-00-0	Pyrene	ND	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		7-101%
4165-62-2	Phenol-d5	64%		12-101%
118-79-6	2,4,6-Tribromophenol	87%		10-127%
4165-60-0	Nitrobenzene-d5	77%		15-114%
321-60-8	2-Fluorobiphenyl	82%		22-104%
1718-51-0	Terphenyl-d14	79%		23-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-1-S2
Lab Sample ID: JD25566-3
Matrix: SO - Soil
Method: CT-ETPH SW846 3546
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 94.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z39451.D	1	05/28/21 09:59	CP	05/27/21 10:00	OP33509	G8Z1691
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	16.0	6.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-1-S2
Lab Sample ID: JD25566-3
Matrix: SO - Soil
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 94.2

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 2.1	2.1	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	< 21	21	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.52	0.52	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	3.6	1.0	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	6.5	2.6	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	4.1	2.1	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.033	0.033	mg/kg	1	05/27/21	05/27/21	LL	SW846 7471B [1]	SW846 7471B [4]
Nickel	< 4.1	4.1	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.52	0.52	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	15.2	5.2	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50590
(2) Instrument QC Batch: MA50599
(3) Prep QC Batch: MP26699
(4) Prep QC Batch: MP26722

RL = Reporting Limit

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-2-S3
Lab Sample ID: JD25566-4
Matrix: SO - Soil
Method: SW846 8260D
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 79.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C178391.D	1	05/26/21 18:44	PS	n/a	n/a	V1C7785
Run #2							

	Initial Weight
Run #1	10.0 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	6.3	ug/kg	
107-13-1	Acrylonitrile	ND	6.3	ug/kg	
71-43-2	Benzene	ND	0.32	ug/kg	
108-86-1	Bromobenzene	ND	3.2	ug/kg	
75-27-4	Bromodichloromethane	ND	1.3	ug/kg	
75-25-2	Bromoform	ND	3.2	ug/kg	
74-83-9	Bromomethane	ND	3.2	ug/kg	
78-93-3	2-Butanone (MEK) [a]	ND	6.3	ug/kg	
104-51-8	n-Butylbenzene	ND	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	1.3	ug/kg	
98-06-6	tert-Butylbenzene	ND	1.3	ug/kg	
75-15-0	Carbon disulfide	ND	1.3	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	1.3	ug/kg	
75-00-3	Chloroethane	ND	3.2	ug/kg	
67-66-3	Chloroform	ND	1.3	ug/kg	
74-87-3	Chloromethane	ND	3.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	1.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.63	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.63	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.63	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.63	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	3.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.63	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.63	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.63	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.63	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.63	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-2-S3		
Lab Sample ID:	JD25566-4	**Date Sampled:**	05/25/21
Matrix:	SO - Soil	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	79.3
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	1.3	ug/kg	
594-20-7	2,2-Dichloropropane	ND	1.3	ug/kg	
563-58-6	1,1-Dichloropropene	ND	1.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	0.63	ug/kg	
76-13-1	Freon 113	ND	3.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3.2	ug/kg	
591-78-6	2-Hexanone	ND	3.2	ug/kg	
98-82-8	Isopropylbenzene	ND	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	1.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.63	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	3.2	ug/kg	
74-95-3	Methylene bromide	ND	3.2	ug/kg	
75-09-2	Methylene chloride	ND	3.2	ug/kg	
91-20-3	Naphthalene	ND	3.2	ug/kg	
103-65-1	n-Propylbenzene	ND	1.3	ug/kg	
100-42-5	Styrene	ND	1.3	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	ug/kg	
127-18-4	Tetrachloroethene	ND	1.3	ug/kg	
109-99-9	Tetrahydrofuran	ND	6.3	ug/kg	
108-88-3	Toluene	ND	0.63	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	3.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.3	ug/kg	
79-01-6	Trichloroethene	ND	0.63	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	1.3	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	1.3	ug/kg	
75-01-4	Vinyl chloride	ND	1.3	ug/kg	
	m,p-Xylene	ND	0.63	ug/kg	
95-47-6	o-Xylene	ND	0.63	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-2-S3		
Lab Sample ID:	JD25566-4	**Date Sampled:**	05/25/21
Matrix:	SO - Soil	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	79.3
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		75-131%
2037-26-5	Toluene-D8	104%		81-121%
460-00-4	4-Bromofluorobenzene	97%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-2-S3
Lab Sample ID: JD25566-4
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 79.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M173086.D	1	05/28/21 03:50	CS	05/27/21 10:00	OP33486	EM7415
Run #2							

	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	40	ug/kg	
208-96-8	Acenaphthylene	ND	40	ug/kg	
120-12-7	Anthracene	ND	40	ug/kg	
56-55-3	Benzo(a)anthracene	ND	40	ug/kg	
50-32-8	Benzo(a)pyrene	ND	40	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	40	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	40	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	40	ug/kg	
218-01-9	Chrysene	ND	40	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	40	ug/kg	
206-44-0	Fluoranthene	ND	40	ug/kg	
86-73-7	Fluorene	ND	40	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40	ug/kg	
91-20-3	Naphthalene	ND	40	ug/kg	
85-01-8	Phenanthrene	ND	40	ug/kg	
129-00-0	Pyrene	ND	40	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%		7-101%
4165-62-2	Phenol-d5	61%		12-101%
118-79-6	2,4,6-Tribromophenol	73%		10-127%
4165-60-0	Nitrobenzene-d5	72%		15-114%
321-60-8	2-Fluorobiphenyl	75%		22-104%
1718-51-0	Terphenyl-d14	75%		23-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-2-S3
Lab Sample ID: JD25566-4
Matrix: SO - Soil
Method: CT-ETPH SW846 3546
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 79.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z39452.D	1	05/28/21 10:39	CP	05/27/21 10:00	OP33509	G8Z1691
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	8.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-2-S3
Lab Sample ID: JD25566-4
Matrix: SO - Soil
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 79.3

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1.5	1.4	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	16.3	14	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.35	0.35	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	5.4	0.71	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	5.7	1.8	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	2.7	1.4	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.035	0.035	mg/kg	1	05/27/21	05/27/21	LL	SW846 7471B [1]	SW846 7471B [4]
Nickel	5.0	2.8	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 1.4	1.4	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	0.38	0.35	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	13.6	3.5	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50590
(2) Instrument QC Batch: MA50599
(3) Prep QC Batch: MP26699
(4) Prep QC Batch: MP26722

RL = Reporting Limit

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-4-S2
Lab Sample ID: JD25566-5
Matrix: SO - Soil
Method: SW846 8260D
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 96.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C178392.D	1	05/26/21 19:12	PS	n/a	n/a	V1C7785
Run #2							

	Initial Weight
Run #1	9.3 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.6	ug/kg	
107-13-1	Acrylonitrile	ND	5.6	ug/kg	
71-43-2	Benzene	ND	0.28	ug/kg	
108-86-1	Bromobenzene	ND	2.8	ug/kg	
75-27-4	Bromodichloromethane	ND	1.1	ug/kg	
75-25-2	Bromoform	ND	2.8	ug/kg	
74-83-9	Bromomethane	ND	2.8	ug/kg	
78-93-3	2-Butanone (MEK) [a]	ND	5.6	ug/kg	
104-51-8	n-Butylbenzene	ND	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	1.1	ug/kg	
75-15-0	Carbon disulfide	ND	1.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	1.1	ug/kg	
75-00-3	Chloroethane	ND	2.8	ug/kg	
67-66-3	Chloroform	ND	1.1	ug/kg	
74-87-3	Chloromethane	ND	2.8	ug/kg	
95-49-8	o-Chlorotoluene	ND	1.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	1.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.56	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.56	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.56	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.56	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	2.8	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.56	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.56	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.56	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.56	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.56	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-4-S2		
Lab Sample ID:	JD25566-5	**Date Sampled:**	05/25/21
Matrix:	SO - Soil	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	96.6
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.1	ug/kg	
142-28-9	1,3-Dichloropropane	ND	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	0.56	ug/kg	
76-13-1	Freon 113	ND	2.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2.8	ug/kg	
591-78-6	2-Hexanone	ND	2.8	ug/kg	
98-82-8	Isopropylbenzene	ND	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	1.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.56	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	2.8	ug/kg	
74-95-3	Methylene bromide	ND	2.8	ug/kg	
75-09-2	Methylene chloride	ND	2.8	ug/kg	
91-20-3	Naphthalene	ND	2.8	ug/kg	
103-65-1	n-Propylbenzene	ND	1.1	ug/kg	
100-42-5	Styrene	ND	1.1	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	ug/kg	
127-18-4	Tetrachloroethene	ND	1.1	ug/kg	
109-99-9	Tetrahydrofuran	ND	5.6	ug/kg	
108-88-3	Toluene	ND	0.56	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	2.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	2.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.1	ug/kg	
79-01-6	Trichloroethene	ND	0.56	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	2.8	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	ug/kg	
75-01-4	Vinyl chloride	ND	1.1	ug/kg	
	m,p-Xylene	ND	0.56	ug/kg	
95-47-6	o-Xylene	ND	0.56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-4-S2		
Lab Sample ID:	JD25566-5	**Date Sampled:**	05/25/21
Matrix:	SO - Soil	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	96.6
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		75-131%
2037-26-5	Toluene-D8	104%		81-121%
460-00-4	4-Bromofluorobenzene	97%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-4-S2
Lab Sample ID: JD25566-5
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 96.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M173081.D	1	05/28/21 01:33	CS	05/27/21 10:00	OP33486	EM7415
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	34	ug/kg	
208-96-8	Acenaphthylene	ND	34	ug/kg	
120-12-7	Anthracene	ND	34	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	ug/kg	
218-01-9	Chrysene	ND	34	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	ug/kg	
206-44-0	Fluoranthene	ND	34	ug/kg	
86-73-7	Fluorene	ND	34	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	ug/kg	
91-20-3	Naphthalene	ND	34	ug/kg	
85-01-8	Phenanthrene	ND	34	ug/kg	
129-00-0	Pyrene	ND	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%		7-101%
4165-62-2	Phenol-d5	58%		12-101%
118-79-6	2,4,6-Tribromophenol	75%		10-127%
4165-60-0	Nitrobenzene-d5	68%		15-114%
321-60-8	2-Fluorobiphenyl	72%		22-104%
1718-51-0	Terphenyl-d14	72%		23-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-4-S2
Lab Sample ID: JD25566-5
Matrix: SO - Soil
Method: CT-ETPH SW846 3546
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 96.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z39453.D	1	05/28/21 11:18	CP	05/27/21 10:00	OP33509	G8Z1691
Run #2							

	Initial Weight	Final Volume
Run #1	16.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	6.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-4-S2
Lab Sample ID: JD25566-5
Matrix: SO - Soil
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 96.6

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 2.2	2.2	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	< 22	22	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.54	0.54	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	3.9	1.1	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	4.0	2.7	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	2.3	2.2	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.031	0.031	mg/kg	1	05/27/21	05/27/21	LL	SW846 7471B [1]	SW846 7471B [4]
Nickel	4.8	4.3	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	9.6	5.4	mg/kg	1	05/27/21	05/28/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50590
(2) Instrument QC Batch: MA50599
(3) Prep QC Batch: MP26699
(4) Prep QC Batch: MP26722

RL = Reporting Limit

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: EQUIP BLANK
Lab Sample ID: JD25566-6
Matrix: AQ - Equipment Blank
Method: SW846 8260D
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A211138.D	1	05/28/21 13:59	KC	n/a	n/a	V1A9124
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone [a]	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene [a]	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID:	EQUIP BLANK		
Lab Sample ID:	JD25566-6	**Date Sampled:**	05/25/21
Matrix:	AQ - Equipment Blank	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene [a]	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		85-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID:	EQUIP BLANK		
Lab Sample ID:	JD25566-6	**Date Sampled:**	05/25/21
Matrix:	AQ - Equipment Blank	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		80-121%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: EQUIP BLANK
Lab Sample ID: JD25566-6
Matrix: AQ - Equipment Blank
Method: SW846 8270E SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P101950.D	1	05/28/21 16:49	HSS	05/28/21 08:50	OP33518	E2P4565
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	ug/l	
218-01-9	Chrysene	ND	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene [a]	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%		10-83%
4165-62-2	Phenol-d5	36%		10-82%
118-79-6	2,4,6-Tribromophenol	110%		37-139%
4165-60-0	Nitrobenzene-d5	102%		35-127%
321-60-8	2-Fluorobiphenyl	94%		35-121%
1718-51-0	Terphenyl-d14	90%		28-135%

(a) Quadratic regression was employed for this compound in associated ICAL.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: EQUIP BLANK
Lab Sample ID: JD25566-6
Matrix: AQ - Equipment Blank
Method: SW846 8081B SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G38044.D	1	06/02/21 02:41	CP	05/31/21 09:50	OP33552	G8G1594
Run #2							

	Initial Volume	Final Volume
Run #1	710 ml	5.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0070	ug/l	
15972-60-8	Alachlor	ND	0.070	ug/l	
319-84-6	alpha-BHC	ND	0.0070	ug/l	
319-85-7	beta-BHC	ND	0.0070	ug/l	
319-86-8	delta-BHC	ND	0.0070	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0070	ug/l	
12789-03-6	Chlordane	ND	0.35	ug/l	
60-57-1	Dieldrin	ND	0.0070	ug/l	
72-54-8	4,4'-DDD	ND	0.0070	ug/l	
72-55-9	4,4'-DDE	ND	0.0070	ug/l	
50-29-3	4,4'-DDT	ND	0.0070	ug/l	
72-20-8	Endrin	ND	0.0070	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0070	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0070	ug/l	
53494-70-5	Endrin ketone [a]	ND	0.0070	ug/l	
959-98-8	Endosulfan-I	ND	0.0070	ug/l	
33213-65-9	Endosulfan-II	ND	0.0070	ug/l	
76-44-8	Heptachlor	ND	0.0070	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0070	ug/l	
72-43-5	Methoxychlor	ND	0.014	ug/l	
8001-35-2	Toxaphene	ND	0.18	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		10-165%
877-09-8	Tetrachloro-m-xylene	96%		10-165%
2051-24-3	Decachlorobiphenyl	86%		28-161%
2051-24-3	Decachlorobiphenyl	80%		28-161%

(a) This compound is outside the RCP limits in the associated BSD biased high.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: EQUIP BLANK
Lab Sample ID: JD25566-6
Matrix: AQ - Equipment Blank
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 3.0	3.0	ug/l	1	05/28/21	05/28/21	ND	SW846 6010D [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	05/28/21	05/28/21	ND	SW846 6010D [2]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	05/28/21	05/28/21	ND	SW846 6010D [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	05/28/21	05/28/21	ND	SW846 6010D [2]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	05/28/21	05/28/21	ND	SW846 6010D [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	05/28/21	05/28/21	ND	SW846 6010D [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	05/28/21	05/28/21	LL	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	05/28/21	05/28/21	ND	SW846 6010D [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	05/28/21	05/28/21	ND	SW846 6010D [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	05/28/21	05/28/21	ND	SW846 6010D [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	05/28/21	05/28/21	ND	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA50601
(2) Instrument QC Batch: MA50605
(3) Prep QC Batch: MP26732
(4) Prep QC Batch: MP26746

RL = Reporting Limit

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: JD25566-7
Matrix: SO - Trip Blank Soil
Method: SW846 8260D
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C178387.D	1	05/26/21 16:56	PS	n/a	n/a	V1C7785
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	10.7	10	ug/kg	
107-13-1	Acrylonitrile	ND	10	ug/kg	
71-43-2	Benzene	ND	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
74-83-9	Bromomethane	ND	5.0	ug/kg	
78-93-3	2-Butanone (MEK) [a]	ND	10	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	2.0	ug/kg	
74-87-3	Chloromethane	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD25566-7	**Date Sampled:**	05/25/21
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	ug/kg	
76-13-1	Freon 113	ND	5.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
591-78-6	2-Hexanone	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	ug/kg	
100-42-5	Styrene	ND	2.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	ug/kg	
109-99-9	Tetrahydrofuran	ND	10	ug/kg	
108-88-3	Toluene	ND	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/kg	
79-01-6	Trichloroethene	ND	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	ug/kg	
	m,p-Xylene	ND	1.0	ug/kg	
95-47-6	o-Xylene	ND	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:30 28-Jun-2021

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD25566-7	**Date Sampled:**	05/25/21
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/25/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		75-131%
2037-26-5	Toluene-D8	105%		81-121%
460-00-4	4-Bromofluorobenzene	97%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

Parameter Certification Exceptions

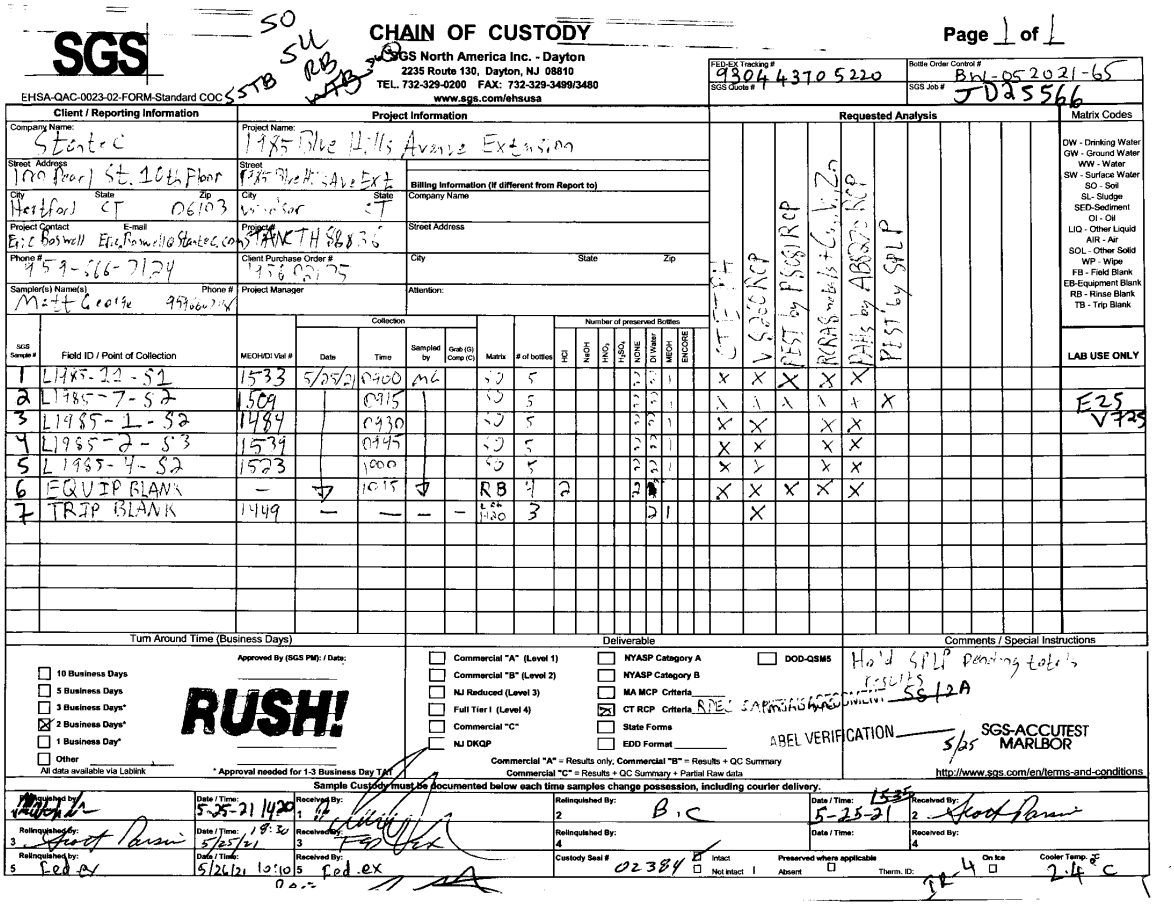
Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Alachlor	15972-60-8	**SW846 8081B**	AQ	SGS is not certified for this parameter.[a]

(a) Analyte is in applied status with NJDEP for this reference method.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.



SGS

EHSA-QAC-0023-02-FORM-Standard COC

CHAIN OF CUSTODY

Page 1 of 1

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 # 920443705220
Bottle Order Control # BW-052021-65
SGS Quote #
SGS Job # JD25566

Client / Reporting Information

Company Name: Stantec
Street Address: 100 Pearl St. 16th Floor
City: Hartford State: CT Zip: 06103
Project Contact: Eric Boswell E-mail: Eric.Boswell@Stantec.com
Phone #: 959-566-7124
Sampler(s) Name(s): Matt George Phone #: 9916667148

Project Information

Project Name: 1985 Blue Hills Avenue Extension
Street: 1985 Blue Hills Ave Ext
City: Windsor State: CT
Project #: STANKTH 258836
Client Purchase Order #: 156 0175
Project Manager:
Attention:

Billing Information (If different from Report to)
Company Name:
Street Address:
City: State: Zip:

Requested Analysis

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	Grab (G) Comp (C)	Matrix	# of bottles	Preserved Bottles: HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	CT ETPH	VOCs 8260 RCP	PEST by 8081 RCP	PCBs as AROCLORS 8082 RCP	PEST by SPLP	LAB USE ONLY
1	L1985-11-S1	1533	5/25/21	0900	MG		SO	5						1			X	X	X	X		
2	L1985-7-S2	1509		0915			SO	5						1			X	X	X	X	X	E25 V725
3	L1985-1-S2	1484		0930			SO	5						1			X	X		X	X	
4	L1985-2-S3	1539		0945			SO	5						1			X	X		X	X	
5	L1985-7-S2	1523		1000			SO	5						1			X	X		X	X	
6	EQUIP BLANK	—		1015			RB	4	2					2			X	X	X	X	X	
7	TRIP BLANK	1449	—	—	—	—	L Soil H2O	3						1				X				

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [x] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

RUSH!

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [x] CT RCP Criteria RBC SAMPLING PROCEDURE
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

ABEL VERIFICATION 5/25

Commercial "A" = Results only, Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Hold SPLP pending toxicity results
SGS-ACCUTEST MARLBOR

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		5-25-21 1420	1	2 B.C	5-25-21 1535	2
3		5/25/21 19:30	3 Fed Ex	4		4
5	Fed Ex	5/26/21 10:10	5 Fed ex	Custody Seal # 02384 ☑ Intact ☐ Not Intact	Preserved where applicable ☐ Absent	On Ice ☐ Therm. ID:	Cooler Temp. 4 °C 2.4 °C

SGS Sample Receipt Summary

Job Number: JD25566 **Client:** STANTEC **Project:** EVERSOURCE, BLUE HILLS AVENUE EXT, WI

Date / Time Received: 5/25/2021 6:30:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (1.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

5.2
5

Job Change Order: JD25566

Requested Date:	5/26/2021	**Received Date:**	5/25/2021
Account Name:	Stantec	**Due Date:**	5/27/2021
Project Description:	Eversource, Blue Hills Avenue Ext, Windsor, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** BW	**TAT (Days):**	7

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Sample #: JD25566-ALL

Dept:

TAT: 7

Change:
Please revise to 7 day TAT as per rush pre-approval.

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Above Changes Per: Lab **Date/Time:** 5/26/2021 12:49:04 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD25566

Requested Date:	6/3/2021	**Received Date:**	5/25/2021
Account Name:	Stantec	**Due Date:**	6/2/2021
Project Description:	Eversource, Blue Hills Avenue Ext, Windsor, CT	**Deliverable:**	CTRCP
C/O Initiated By:	BETHW **PM:** BW	**TAT (Days):**	7

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Sample #: JD25566-2

Dept:

TAT: 7

L1985-7-S2

Change:
Relog for P8081SPLPRCP, SPLPE, SPLPRATIO

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Above Changes Per: Eric Boswell **Date/Time:** 6/3/2021 2:26:31 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: SGS North America Inc. **Client:** Stantec

Project Location: Eversource, Blue Hills Avenue Ext, Windsor, CT **Project Number:**

Sampling Date(s): 5/25/2021

Laboratory Sample ID(s): JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5, JD25566-6, JD25566-7

Methods: CT-ETPH, SM2540 G 18TH ED MOD, SW846 6010D, SW846 7470A, SW846 7471B, SW846 8081B, SW846 8260D, SW846 8270E

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☑ No ☐
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☐ No ☑

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

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Caitlin Brice Position: General Manager

Printed Name: Caitlin Brice Date: 6/2/2021

SGS North America Inc.

Internal Sample Tracking Chronicle

Stantec

Job No: JD25566

Eversource, Blue Hills Avenue Ext, Windsor, CT
Project No: STANCTH88836 PO#

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD25566-1	Collected: 25-MAY-21 09:00 By: MG			Received: 25-MAY-21 By: DG		
L1985-11-S1						
JD25566-1	SM2540 G 18TH ED MOD	26-MAY-21 16:36	BG			SOL104
JD25566-1	SW846 8260D	26-MAY-21 17:23	PS			V8260RCP
JD25566-1	SW846 7471B	27-MAY-21 10:19	LL	27-MAY-21	MC	HG
JD25566-1	SW846 6010D	28-MAY-21 01:09	ND	27-MAY-21	SV	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
JD25566-1	SW846 8270E	28-MAY-21 04:17	CS	27-MAY-21	LJ	AB8270RCP
JD25566-1	CT-ETPH	28-MAY-21 08:40	CP	27-MAY-21	TC	BCTTPH
JD25566-1	SW846 8081B	01-JUN-21 16:16	KLS	27-MAY-21	KM	P8081RCP
JD25566-2	Collected: 25-MAY-21 09:15 By: MG			Received: 25-MAY-21 By: DG		
L1985-7-S2						
JD25566-2	SM2540 G 18TH ED MOD	26-MAY-21 16:36	BG			SOL104
JD25566-2	SW846 8260D	26-MAY-21 17:50	PS			V8260RCP
JD25566-2	SW846 7471B	27-MAY-21 10:21	LL	27-MAY-21	MC	HG
JD25566-2	SW846 6010D	28-MAY-21 01:14	ND	27-MAY-21	SV	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
JD25566-2	SW846 8270E	28-MAY-21 02:56	CS	27-MAY-21	LJ	AB8270RCP
JD25566-2	CT-ETPH	28-MAY-21 09:21	CP	27-MAY-21	TC	BCTTPH
JD25566-2	SW846 8081B	01-JUN-21 16:33	KLS	27-MAY-21	KM	P8081RCP
JD25566-3	Collected: 25-MAY-21 09:30 By: MG			Received: 25-MAY-21 By: DG		
L1985-1-S2						
JD25566-3	SM2540 G 18TH ED MOD	26-MAY-21 16:36	BG			SOL104
JD25566-3	SW846 8260D	26-MAY-21 18:18	PS			V8260RCP
JD25566-3	SW846 7471B	27-MAY-21 10:23	LL	27-MAY-21	MC	HG
JD25566-3	SW846 6010D	28-MAY-21 01:28	ND	27-MAY-21	SV	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
JD25566-3	SW846 8270E	28-MAY-21 03:23	CS	27-MAY-21	LJ	AB8270RCP
JD25566-3	CT-ETPH	28-MAY-21 09:59	CP	27-MAY-21	TC	BCTTPH
JD25566-4	Collected: 25-MAY-21 09:45 By: MG			Received: 25-MAY-21 By: DG		
L1985-2-S3						
JD25566-4	SM2540 G 18TH ED MOD	26-MAY-21 16:36	BG			SOL104
JD25566-4	SW846 8260D	26-MAY-21 18:44	PS			V8260RCP

SGS North America Inc.

Internal Sample Tracking Chronicle

Stantec

Job No: JD25566

Eversource, Blue Hills Avenue Ext, Windsor, CT
Project No: STANCTH88836 PO#

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD25566-4	SW846 7471B	27-MAY-21 10:28	LL	27-MAY-21	MC	HG
JD25566-4	SW846 6010D	28-MAY-21 01:33	ND	27-MAY-21	SV	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
JD25566-4	SW846 8270E	28-MAY-21 03:50	CS	27-MAY-21	LJ	AB8270RCP
JD25566-4	CT-ETPH	28-MAY-21 10:39	CP	27-MAY-21	TC	BCTTPH
JD25566-5	Collected: 25-MAY-21 10:00 By: MG			Received: 25-MAY-21 By: DG		
L1985-4-S2						
JD25566-5	SM2540 G 18TH ED MOD	26-MAY-21 16:36	BG			SOL104
JD25566-5	SW846 8260D	26-MAY-21 19:12	PS			V8260RCP
JD25566-5	SW846 7471B	27-MAY-21 10:29	LL	27-MAY-21	MC	HG
JD25566-5	SW846 8270E	28-MAY-21 01:33	CS	27-MAY-21	LJ	AB8270RCP
JD25566-5	SW846 6010D	28-MAY-21 01:38	ND	27-MAY-21	SV	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
JD25566-5	CT-ETPH	28-MAY-21 11:18	CP	27-MAY-21	TC	BCTTPH
JD25566-6	Collected: 25-MAY-21 10:15 By: MG			Received: 25-MAY-21 By: DG		
EQUIP BLANK						
JD25566-6	SW846 7470A	28-MAY-21 10:49	LL	28-MAY-21	LL	HG
JD25566-6	SW846 8260D	28-MAY-21 13:59	KC			V8260RCP
JD25566-6	SW846 8270E	28-MAY-21 16:49	HSS	28-MAY-21	BS	AB8270RCP
JD25566-6	SW846 6010D	28-MAY-21 20:36	ND	28-MAY-21	SF	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
JD25566-6	SW846 8081B	02-JUN-21 02:41	CP	31-MAY-21	TG	P8081RCP
JD25566-7	Collected: 25-MAY-21 10:15 By: MG			Received: 25-MAY-21 By: DG		
TRIP BLANK						
JD25566-7	SW846 8260D	26-MAY-21 16:56	PS			V8260RCP

QC Evaluation: CT RCP Limits

Job Number: JD25566
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/25/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1A9124	SW846 8260D						
V1A9124-BS	67-64-1	Acetone	BSP	REC	102	%	70-130
V1A9124-BS	107-13-1	Acrylonitrile	BSP	REC	84	%	70-130
V1A9124-BS	71-43-2	Benzene	BSP	REC	92	%	70-130
V1A9124-BS	108-86-1	Bromobenzene	BSP	REC	94	%	70-130
V1A9124-BS	75-27-4	Bromodichloromethane	BSP	REC	103	%	70-130
V1A9124-BS	75-25-2	Bromoform	BSP	REC	116	%	70-130
V1A9124-BS	74-83-9	Bromomethane	BSP	REC	122	%	70-130
V1A9124-BS	78-93-3	2-Butanone (MEK)	BSP	REC	103	%	70-130
V1A9124-BS	104-51-8	n-Butylbenzene	BSP	REC	89	%	70-130
V1A9124-BS	135-98-8	sec-Butylbenzene	BSP	REC	86	%	70-130
V1A9124-BS	98-06-6	tert-Butylbenzene	BSP	REC	90	%	70-130
V1A9124-BS	75-15-0	Carbon disulfide	BSP	REC	85	%	70-130
V1A9124-BS	56-23-5	Carbon tetrachloride	BSP	REC	100	%	70-130
V1A9124-BS	108-90-7	Chlorobenzene	BSP	REC	98	%	70-130
V1A9124-BS	75-00-3	Chloroethane	BSP	REC	96	%	70-130
V1A9124-BS	67-66-3	Chloroform	BSP	REC	98	%	70-130
V1A9124-BS	74-87-3	Chloromethane	BSP	REC	93	%	70-130
V1A9124-BS	95-49-8	o-Chlorotoluene	BSP	REC	94	%	70-130
V1A9124-BS	106-43-4	p-Chlorotoluene	BSP	REC	95	%	70-130
V1A9124-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	107	%	70-130
V1A9124-BS	124-48-1	Dibromochloromethane	BSP	REC	112	%	70-130
V1A9124-BS	106-93-4	1,2-Dibromoethane	BSP	REC	108	%	70-130
V1A9124-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	100	%	70-130
V1A9124-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	95	%	70-130
V1A9124-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	94	%	70-130
V1A9124-BS	110-57-6	trans-1,4-Dichloro-2-Butene	BSP	REC	90	%	70-130
V1A9124-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	96	%	70-130
V1A9124-BS	75-34-3	1,1-Dichloroethane	BSP	REC	97	%	70-130
V1A9124-BS	107-06-2	1,2-Dichloroethane	BSP	REC	99	%	70-130
V1A9124-BS	75-35-4	1,1-Dichloroethene	BSP	REC	89	%	70-130
V1A9124-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	100	%	70-130
V1A9124-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	96	%	70-130
V1A9124-BS	78-87-5	1,2-Dichloropropane	BSP	REC	94	%	70-130
V1A9124-BS	142-28-9	1,3-Dichloropropane	BSP	REC	94	%	70-130
V1A9124-BS	594-20-7	2,2-Dichloropropane	BSP	REC	96	%	70-130
V1A9124-BS	563-58-6	1,1-Dichloropropene	BSP	REC	89	%	70-130
V1A9124-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	101	%	70-130
V1A9124-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	102	%	70-130
V1A9124-BS	100-41-4	Ethylbenzene	BSP	REC	94	%	70-130
V1A9124-BS	76-13-1	Freon 113	BSP	REC	91	%	70-130
V1A9124-BS	87-68-3	Hexachlorobutadiene	BSP	REC	74	%	70-130
V1A9124-BS	591-78-6	2-Hexanone	BSP	REC	94	%	70-130

* Sample used for QC is not from job JD25566

QC Evaluation: CT RCP Limits

Job Number: JD25566
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/25/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1A9124-BS	98-82-8	Isopropylbenzene	BSP	REC	95	%	70-130
V1A9124-BS	99-87-6	p-Isopropyltoluene	BSP	REC	88	%	70-130
V1A9124-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	96	%	70-130
V1A9124-BS	108-10-1	4-Methyl-2-pentanone(MIBK)	BSP	REC	97	%	70-130
V1A9124-BS	74-95-3	Methylene bromide	BSP	REC	102	%	70-130
V1A9124-BS	75-09-2	Methylene chloride	BSP	REC	98	%	70-130
V1A9124-BS	91-20-3	Naphthalene	BSP	REC	96	%	70-130
V1A9124-BS	103-65-1	n-Propylbenzene	BSP	REC	88	%	70-130
V1A9124-BS	100-42-5	Styrene	BSP	REC	99	%	70-130
V1A9124-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	106	%	70-130
V1A9124-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	101	%	70-130
V1A9124-BS	127-18-4	Tetrachloroethene	BSP	REC	90	%	70-130
V1A9124-BS	109-99-9	Tetrahydrofuran	BSP	REC	103	%	70-130
V1A9124-BS	108-88-3	Toluene	BSP	REC	90	%	70-130
V1A9124-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	97	%	70-130
V1A9124-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	95	%	70-130
V1A9124-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	100	%	70-130
V1A9124-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	101	%	70-130
V1A9124-BS	79-01-6	Trichloroethene	BSP	REC	93	%	70-130
V1A9124-BS	75-69-4	Trichlorofluoromethane	BSP	REC	108	%	70-130
V1A9124-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	101	%	70-130
V1A9124-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	92	%	70-130
V1A9124-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	89	%	70-130
V1A9124-BS	75-01-4	Vinyl chloride	BSP	REC	94	%	70-130
V1A9124-BS		m,p-Xylene	BSP	REC	95	%	70-130
V1A9124-BS	95-47-6	o-Xylene	BSP	REC	96	%	70-130
V1A9124-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	106	%	70-130
V1A9124-BS	2037-26-5	Toluene-D8	BSP	SURR	94	%	70-130
V1A9124-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	94	%	70-130
V1A9124-MB	1868-53-7	Dibromofluoromethane	MB	SURR	106	%	70-130
V1A9124-MB	2037-26-5	Toluene-D8	MB	SURR	100	%	70-130
V1A9124-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	97	%	70-130
JD25566-6	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	70-130
JD25566-6	2037-26-5	Toluene-D8	SAMP	SURR	100	%	70-130
JD25566-6	460-00-4	4-Bromofluorobenzene	SAMP	SURR	94	%	70-130
V1C7785	SW846 8260D						
V1C7785-BS	67-64-1	Acetone	BSP	REC	113	%	70-130
V1C7785-BS	107-13-1	Acrylonitrile	BSP	REC	116	%	70-130
V1C7785-BS	71-43-2	Benzene	BSP	REC	95	%	70-130
V1C7785-BS	108-86-1	Bromobenzene	BSP	REC	97	%	70-130
V1C7785-BS	75-27-4	Bromodichloromethane	BSP	REC	95	%	70-130
V1C7785-BS	75-25-2	Bromoform	BSP	REC	108	%	70-130
V1C7785-BS	74-83-9	Bromomethane	BSP	REC	105	%	70-130

* Sample used for QC is not from job JD25566

QC Evaluation: CT RCP Limits

Job Number: JD25566
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/25/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1C7785-BS	78-93-3	2-Butanone (MEK)	BSP	REC	107	%	70-130
V1C7785-BS	104-51-8	n-Butylbenzene	BSP	REC	95	%	70-130
V1C7785-BS	135-98-8	sec-Butylbenzene	BSP	REC	92	%	70-130
V1C7785-BS	98-06-6	tert-Butylbenzene	BSP	REC	98	%	70-130
V1C7785-BS	75-15-0	Carbon disulfide	BSP	REC	96	%	70-130
V1C7785-BS	56-23-5	Carbon tetrachloride	BSP	REC	88	%	70-130
V1C7785-BS	108-90-7	Chlorobenzene	BSP	REC	98	%	70-130
V1C7785-BS	75-00-3	Chloroethane	BSP	REC	110	%	70-130
V1C7785-BS	67-66-3	Chloroform	BSP	REC	91	%	70-130
V1C7785-BS	74-87-3	Chloromethane	BSP	REC	104	%	70-130
V1C7785-BS	95-49-8	o-Chlorotoluene	BSP	REC	95	%	70-130
V1C7785-BS	106-43-4	p-Chlorotoluene	BSP	REC	95	%	70-130
V1C7785-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	97	%	70-130
V1C7785-BS	124-48-1	Dibromochloromethane	BSP	REC	109	%	70-130
V1C7785-BS	106-93-4	1,2-Dibromoethane	BSP	REC	99	%	70-130
V1C7785-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	98	%	70-130
V1C7785-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	93	%	70-130
V1C7785-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	93	%	70-130
V1C7785-BS	110-57-6	Trans-1,4-Dichloro-2-Butene	BSP	REC	104	%	70-130
V1C7785-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	90	%	70-130
V1C7785-BS	75-34-3	1,1-Dichloroethane	BSP	REC	101	%	70-130
V1C7785-BS	107-06-2	1,2-Dichloroethane	BSP	REC	91	%	70-130
V1C7785-BS	75-35-4	1,1-Dichloroethene	BSP	REC	90	%	70-130
V1C7785-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	93	%	70-130
V1C7785-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	90	%	70-130
V1C7785-BS	78-87-5	1,2-Dichloropropane	BSP	REC	104	%	70-130
V1C7785-BS	142-28-9	1,3-Dichloropropane	BSP	REC	111	%	70-130
V1C7785-BS	594-20-7	2,2-Dichloropropane	BSP	REC	91	%	70-130
V1C7785-BS	563-58-6	1,1-Dichloropropene	BSP	REC	99	%	70-130
V1C7785-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	102	%	70-130
V1C7785-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	111	%	70-130
V1C7785-BS	100-41-4	Ethylbenzene	BSP	REC	94	%	70-130
V1C7785-BS	76-13-1	Freon 113	BSP	REC	93	%	70-130
V1C7785-BS	87-68-3	Hexachlorobutadiene	BSP	REC	92	%	70-130
V1C7785-BS	591-78-6	2-Hexanone	BSP	REC	113	%	70-130
V1C7785-BS	98-82-8	Isopropylbenzene	BSP	REC	90	%	70-130
V1C7785-BS	99-87-6	p-Isopropyltoluene	BSP	REC	93	%	70-130
V1C7785-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	98	%	70-130
V1C7785-BS	108-10-1	4-Methyl-2-pentanone(MIBK)	BSP	REC	103	%	70-130
V1C7785-BS	74-95-3	Methylene bromide	BSP	REC	96	%	70-130
V1C7785-BS	75-09-2	Methylene chloride	BSP	REC	98	%	70-130
V1C7785-BS	91-20-3	Naphthalene	BSP	REC	90	%	70-130
V1C7785-BS	103-65-1	n-Propylbenzene	BSP	REC	94	%	70-130
V1C7785-BS	100-42-5	Styrene	BSP	REC	93	%	70-130
V1C7785-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	100	%	70-130

* Sample used for QC is not from job JD25566

QC Evaluation: CT RCP Limits

Job Number: JD25566
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/25/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1C7785-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	109	%	70-130
V1C7785-BS	127-18-4	Tetrachloroethene	BSP	REC	96	%	70-130
V1C7785-BS	109-99-9	Tetrahydrofuran	BSP	REC	103	%	70-130
V1C7785-BS	108-88-3	Toluene	BSP	REC	99	%	70-130
V1C7785-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	94	%	70-130
V1C7785-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	97	%	70-130
V1C7785-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	89	%	70-130
V1C7785-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	112	%	70-130
V1C7785-BS	79-01-6	Trichloroethene	BSP	REC	98	%	70-130
V1C7785-BS	75-69-4	Trichlorofluoromethane	BSP	REC	91	%	70-130
V1C7785-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	101	%	70-130
V1C7785-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	94	%	70-130
V1C7785-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	94	%	70-130
V1C7785-BS	75-01-4	Vinyl chloride	BSP	REC	103	%	70-130
V1C7785-BS		m,p-Xylene	BSP	REC	93	%	70-130
V1C7785-BS	95-47-6	o-Xylene	BSP	REC	96	%	70-130
V1C7785-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	102	%	70-130
V1C7785-BS	2037-26-5	Toluene-D8	BSP	SURR	107	%	70-130
V1C7785-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	103	%	70-130
V1C7785-MB	1868-53-7	Dibromofluoromethane	MB	SURR	96	%	70-130
V1C7785-MB	2037-26-5	Toluene-D8	MB	SURR	107	%	70-130
V1C7785-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	97	%	70-130
JD25566-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	104	%	70-130
JD25566-1	2037-26-5	Toluene-D8	SAMP	SURR	104	%	70-130
JD25566-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	100	%	70-130
JD25566-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	103	%	70-130
JD25566-2	2037-26-5	Toluene-D8	SAMP	SURR	105	%	70-130
JD25566-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	100	%	70-130
JD25566-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	104	%	70-130
JD25566-3	2037-26-5	Toluene-D8	SAMP	SURR	105	%	70-130
JD25566-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	70-130
JD25566-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	103	%	70-130
JD25566-4	2037-26-5	Toluene-D8	SAMP	SURR	104	%	70-130
JD25566-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	97	%	70-130
JD25566-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	70-130
JD25566-5	2037-26-5	Toluene-D8	SAMP	SURR	104	%	70-130
JD25566-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	97	%	70-130
JD25566-7	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	70-130
JD25566-7	2037-26-5	Toluene-D8	SAMP	SURR	105	%	70-130
JD25566-7	460-00-4	4-Bromofluorobenzene	SAMP	SURR	97	%	70-130
OP33486	SW846 8270E						
OP33486-BS1	83-32-9	Acenaphthene	BSP	REC	87	%	40-140
OP33486-BS1	208-96-8	Acenaphthylene	BSP	REC	77	%	40-140

* Sample used for QC is not from job JD25566

QC Evaluation: CT RCP Limits

Job Number: JD25566
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/25/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP33486-BS1	120-12-7	Anthracene	BSP	REC	88	%	40-140
OP33486-BS1	56-55-3	Benzo(a)anthracene	BSP	REC	90	%	40-140
OP33486-BS1	50-32-8	Benzo(a)pyrene	BSP	REC	88	%	40-140
OP33486-BS1	205-99-2	Benzo(b)fluoranthene	BSP	REC	91	%	40-140
OP33486-BS1	191-24-2	Benzo(g,h,i)perylene	BSP	REC	83	%	40-140
OP33486-BS1	207-08-9	Benzo(k)fluoranthene	BSP	REC	76	%	40-140
OP33486-BS1	218-01-9	Chrysene	BSP	REC	89	%	40-140
OP33486-BS1	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	86	%	40-140
OP33486-BS1	206-44-0	Fluoranthene	BSP	REC	86	%	40-140
OP33486-BS1	86-73-7	Fluorene	BSP	REC	82	%	40-140
OP33486-BS1	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	88	%	40-140
OP33486-BS1	91-20-3	Naphthalene	BSP	REC	84	%	40-140
OP33486-BS1	85-01-8	Phenanthrene	BSP	REC	86	%	40-140
OP33486-BS1	129-00-0	Pyrene	BSP	REC	92	%	40-140
OP33486-BS1	367-12-4	2-Fluorophenol	BSP	SURR	91	%	30-130
OP33486-BS1	4165-62-2	Phenol-d5	BSP	SURR	83	%	30-130
OP33486-BS1	118-79-6	2,4,6-Tribromophenol	BSP	SURR	94	%	30-130
OP33486-BS1	4165-60-0	Nitrobenzene-d5	BSP	SURR	83	%	30-130
OP33486-BS1	321-60-8	2-Fluorobiphenyl	BSP	SURR	79	%	30-130
OP33486-BS1	1718-51-0	Terphenyl-d14	BSP	SURR	98	%	30-130
OP33486-MB1	367-12-4	2-Fluorophenol	MB	SURR	74	%	30-130
OP33486-MB1	4165-62-2	Phenol-d5	MB	SURR	79	%	30-130
OP33486-MB1	118-79-6	2,4,6-Tribromophenol	MB	SURR	97	%	30-130
OP33486-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	84	%	30-130
OP33486-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	89	%	30-130
OP33486-MB1	1718-51-0	Terphenyl-d14	MB	SURR	92	%	30-130
JD25566-1	367-12-4	2-Fluorophenol	SAMP	SURR	58	%	30-130
JD25566-1	4165-62-2	Phenol-d5	SAMP	SURR	60	%	30-130
JD25566-1	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	84	%	30-130
JD25566-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	69	%	30-130
JD25566-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	71	%	30-130
JD25566-1	1718-51-0	Terphenyl-d14	SAMP	SURR	74	%	30-130
JD25566-2	367-12-4	2-Fluorophenol	SAMP	SURR	58	%	30-130
JD25566-2	4165-62-2	Phenol-d5	SAMP	SURR	63	%	30-130
JD25566-2	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	83	%	30-130
JD25566-2	4165-60-0	Nitrobenzene-d5	SAMP	SURR	73	%	30-130
JD25566-2	321-60-8	2-Fluorobiphenyl	SAMP	SURR	79	%	30-130
JD25566-2	1718-51-0	Terphenyl-d14	SAMP	SURR	81	%	30-130
JD25566-3	367-12-4	2-Fluorophenol	SAMP	SURR	58	%	30-130
JD25566-3	4165-62-2	Phenol-d5	SAMP	SURR	64	%	30-130
JD25566-3	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	87	%	30-130
JD25566-3	4165-60-0	Nitrobenzene-d5	SAMP	SURR	77	%	30-130
JD25566-3	321-60-8	2-Fluorobiphenyl	SAMP	SURR	82	%	30-130
JD25566-3	1718-51-0	Terphenyl-d14	SAMP	SURR	79	%	30-130
JD25566-4	367-12-4	2-Fluorophenol	SAMP	SURR	56	%	30-130

* Sample used for QC is not from job JD25566

QC Evaluation: CT RCP Limits

Job Number: JD25566
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/25/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD25566-4	4165-62-2	Phenol-d5	SAMP	SURR	61	%	30-130
JD25566-4	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	73	%	30-130
JD25566-4	4165-60-0	Nitrobenzene-d5	SAMP	SURR	72	%	30-130
JD25566-4	321-60-8	2-Fluorobiphenyl	SAMP	SURR	75	%	30-130
JD25566-4	1718-51-0	Terphenyl-d14	SAMP	SURR	75	%	30-130
JD25566-5	367-12-4	2-Fluorophenol	SAMP	SURR	53	%	30-130
JD25566-5	4165-62-2	Phenol-d5	SAMP	SURR	58	%	30-130
JD25566-5	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	75	%	30-130
JD25566-5	4165-60-0	Nitrobenzene-d5	SAMP	SURR	68	%	30-130
JD25566-5	321-60-8	2-Fluorobiphenyl	SAMP	SURR	72	%	30-130
JD25566-5	1718-51-0	Terphenyl-d14	SAMP	SURR	72	%	30-130
OP33518	SW846 8270E						
OP33518-BS1	83-32-9	Acenaphthene	BSP	REC	92	%	40-140
OP33518-BS1	208-96-8	Acenaphthylene	BSP	REC	88	%	40-140
OP33518-BS1	120-12-7	Anthracene	BSP	REC	93	%	40-140
OP33518-BS1	56-55-3	Benzo(a)anthracene	BSP	REC	94	%	40-140
OP33518-BS1	50-32-8	Benzo(a)pyrene	BSP	REC	97	%	40-140
OP33518-BS1	205-99-2	Benzo(b)fluoranthene	BSP	REC	99	%	40-140
OP33518-BS1	191-24-2	Benzo(g,h,i)perylene	BSP	REC	98	%	40-140
OP33518-BS1	207-08-9	Benzo(k)fluoranthene	BSP	REC	98	%	40-140
OP33518-BS1	218-01-9	Chrysene	BSP	REC	92	%	40-140
OP33518-BS1	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	101	%	40-140
OP33518-BS1	206-44-0	Fluoranthene	BSP	REC	100	%	40-140
OP33518-BS1	86-73-7	Fluorene	BSP	REC	96	%	40-140
OP33518-BS1	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	113	%	40-140
OP33518-BS1	91-20-3	Naphthalene	BSP	REC	92	%	40-140
OP33518-BS1	85-01-8	Phenanthrene	BSP	REC	93	%	40-140
OP33518-BS1	129-00-0	Pyrene	BSP	REC	94	%	40-140
OP33518-BS1	367-12-4	2-Fluorophenol	BSP	SURR	63	%	15-110
OP33518-BS1	4165-62-2	Phenol-d5	BSP	SURR	41	%	15-110
OP33518-BS1	118-79-6	2,4,6-Tribromophenol	BSP	SURR	112	%	15-110
OP33518-BS1	4165-60-0	Nitrobenzene-d5	BSP	SURR	101	%	30-130
OP33518-BS1	321-60-8	2-Fluorobiphenyl	BSP	SURR	96	%	30-130
OP33518-BS1	1718-51-0	Terphenyl-d14	BSP	SURR	98	%	30-130
OP33518-BSD	83-32-9	Acenaphthene	BSD	REC	95	%	40-140
OP33518-BSD	83-32-9	Acenaphthene	BSD	RPD	4	%	20
OP33518-BSD	208-96-8	Acenaphthylene	BSD	REC	91	%	40-140
OP33518-BSD	208-96-8	Acenaphthylene	BSD	RPD	3	%	20
OP33518-BSD	120-12-7	Anthracene	BSD	REC	98	%	40-140
OP33518-BSD	120-12-7	Anthracene	BSD	RPD	6	%	20
OP33518-BSD	56-55-3	Benzo(a)anthracene	BSD	REC	100	%	40-140
OP33518-BSD	56-55-3	Benzo(a)anthracene	BSD	RPD	6	%	20
OP33518-BSD	50-32-8	Benzo(a)pyrene	BSD	REC	103	%	40-140

* Sample used for QC is not from job JD25566

QC Evaluation: CT RCP Limits

Job Number: JD25566
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/25/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP33518-BSD	50-32-8	Benzo(a)pyrene	BSD	RPD	6	%	20
OP33518-BSD	205-99-2	Benzo(b)fluoranthene	BSD	REC	109	%	40-140
OP33518-BSD	205-99-2	Benzo(b)fluoranthene	BSD	RPD	10	%	20
OP33518-BSD	191-24-2	Benzo(g,h,i)perylene	BSD	REC	99	%	40-140
OP33518-BSD	191-24-2	Benzo(g,h,i)perylene	BSD	RPD	1	%	20
OP33518-BSD	207-08-9	Benzo(k)fluoranthene	BSD	REC	96	%	40-140
OP33518-BSD	207-08-9	Benzo(k)fluoranthene	BSD	RPD	2	%	20
OP33518-BSD	218-01-9	Chrysene	BSD	REC	94	%	40-140
OP33518-BSD	218-01-9	Chrysene	BSD	RPD	2	%	20
OP33518-BSD	53-70-3	Dibenzo(a,h)anthracene	BSD	REC	105	%	40-140
OP33518-BSD	53-70-3	Dibenzo(a,h)anthracene	BSD	RPD	4	%	20
OP33518-BSD	206-44-0	Fluoranthene	BSD	REC	109	%	40-140
OP33518-BSD	206-44-0	Fluoranthene	BSD	RPD	8	%	20
OP33518-BSD	86-73-7	Fluorene	BSD	REC	101	%	40-140
OP33518-BSD	86-73-7	Fluorene	BSD	RPD	5	%	20
OP33518-BSD	193-39-5	Indeno(1,2,3-cd)pyrene	BSD	REC	116	%	40-140
OP33518-BSD	193-39-5	Indeno(1,2,3-cd)pyrene	BSD	RPD	3	%	20
OP33518-BSD	91-20-3	Naphthalene	BSD	REC	96	%	40-140
OP33518-BSD	91-20-3	Naphthalene	BSD	RPD	4	%	20
OP33518-BSD	85-01-8	Phenanthrene	BSD	REC	97	%	40-140
OP33518-BSD	85-01-8	Phenanthrene	BSD	RPD	4	%	20
OP33518-BSD	129-00-0	Pyrene	BSD	REC	98	%	40-140
OP33518-BSD	129-00-0	Pyrene	BSD	RPD	4	%	20
OP33518-BSD	367-12-4	2-Fluorophenol	BSD	SURR	67	%	15-110
OP33518-BSD	4165-62-2	Phenol-d5	BSD	SURR	43	%	15-110
OP33518-BSD	118-79-6	2,4,6-Tribromophenol	BSD	SURR	123	%	15-110
OP33518-BSD	4165-60-0	Nitrobenzene-d5	BSD	SURR	105	%	30-130
OP33518-BSD	321-60-8	2-Fluorobiphenyl	BSD	SURR	99	%	30-130
OP33518-BSD	1718-51-0	Terphenyl-d14	BSD	SURR	101	%	30-130
OP33518-MB1	367-12-4	2-Fluorophenol	MB	SURR	59	%	15-110
OP33518-MB1	4165-62-2	Phenol-d5	MB	SURR	41	%	15-110
OP33518-MB1	118-79-6	2,4,6-Tribromophenol	MB	SURR	108	%	15-110
OP33518-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	103	%	30-130
OP33518-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	97	%	30-130
OP33518-MB1	1718-51-0	Terphenyl-d14	MB	SURR	97	%	30-130
JD25566-6	367-12-4	2-Fluorophenol	SAMP	SURR	53	%	15-110
JD25566-6	4165-62-2	Phenol-d5	SAMP	SURR	36	%	15-110
JD25566-6	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	110	%	15-110
JD25566-6	4165-60-0	Nitrobenzene-d5	SAMP	SURR	102	%	30-130
JD25566-6	321-60-8	2-Fluorobiphenyl	SAMP	SURR	94	%	30-130
JD25566-6	1718-51-0	Terphenyl-d14	SAMP	SURR	90	%	30-130
OP33490	SW846 8081B						
OP33490-BS1	309-00-2	Aldrin	BSP	REC	121	%	40-140

* Sample used for QC is not from job JD25566

QC Evaluation: CT RCP Limits

Job Number: JD25566
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/25/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP33490-BS1	15972-60-8	Alachlor	BSP	REC	101	%	40-140
OP33490-BS1	319-84-6	alpha-BHC	BSP	REC	93	%	40-140
OP33490-BS1	319-85-7	beta-BHC	BSP	REC	94	%	40-140
OP33490-BS1	319-86-8	delta-BHC	BSP	REC	91	%	40-140
OP33490-BS1	58-89-9	gamma-BHC (Lindane)	BSP	REC	93	%	40-140
OP33490-BS1	60-57-1	Dieldrin	BSP	REC	96 [a]	%	40-140
OP33490-BS1	72-54-8	4,4'-DDD	BSP	REC	94	%	40-140
OP33490-BS1	72-55-9	4,4'-DDE	BSP	REC	99	%	40-140
OP33490-BS1	50-29-3	4,4'-DDT	BSP	REC	110	%	40-140
OP33490-BS1	72-20-8	Endrin	BSP	REC	121	%	40-140
OP33490-BS1	1031-07-8	Endosulfan sulfate	BSP	REC	101	%	40-140
OP33490-BS1	7421-93-4	Endrin aldehyde	BSP	REC	107	%	40-140
OP33490-BS1	959-98-8	Endosulfan-I	BSP	REC	101	%	40-140
OP33490-BS1	33213-65-9	Endosulfan-II	BSP	REC	103	%	40-140
OP33490-BS1	76-44-8	Heptachlor	BSP	REC	98	%	40-140
OP33490-BS1	1024-57-3	Heptachlor epoxide	BSP	REC	103	%	40-140
OP33490-BS1	72-43-5	Methoxychlor	BSP	REC	109	%	40-140
OP33490-BS1	53494-70-5	Endrin ketone	BSP	REC	116	%	40-140
OP33490-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	83	%	30-150
OP33490-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	54	%	30-150
OP33490-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	97	%	30-150
OP33490-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	96	%	30-150
OP33490-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	74	%	30-150
OP33490-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	69	%	30-150
OP33490-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	62	%	30-150
OP33490-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	71	%	30-150
OP33490-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	76	%	30-150
OP33490-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	85	%	30-150
OP33490-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	68	%	30-150
OP33490-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	82	%	30-150
JD25566-1	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	76	%	30-150
JD25566-1	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	80	%	30-150
JD25566-1	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	84	%	30-150
JD25566-1	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	108	%	30-150
JD25566-2	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	84	%	30-150
JD25566-2	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	85	%	30-150
JD25566-2	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	113	%	30-150
JD25566-2	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	95	%	30-150
OP33552	SW846 8081B						
OP33552-BS1	309-00-2	Aldrin	BSP	REC	108	%	40-140
OP33552-BS1	15972-60-8	Alachlor	BSP	REC	92	%	40-140
OP33552-BS1	319-84-6	alpha-BHC	BSP	REC	116	%	40-140
OP33552-BS1	319-85-7	beta-BHC	BSP	REC	104	%	40-140

* Sample used for QC is not from job JD25566

QC Evaluation: CT RCP Limits

Job Number: JD25566
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/25/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP33552-BS1	319-86-8	delta-BHC	BSP	REC	108	%	40-140
OP33552-BS1	58-89-9	gamma-BHC (Lindane)	BSP	REC	108	%	40-140
OP33552-BS1	60-57-1	Dieldrin	BSP	REC	112	%	40-140
OP33552-BS1	72-54-8	4,4'-DDD	BSP	REC	112	%	40-140
OP33552-BS1	72-55-9	4,4'-DDE	BSP	REC	104	%	40-140
OP33552-BS1	50-29-3	4,4'-DDT	BSP	REC	112	%	40-140
OP33552-BS1	72-20-8	Endrin	BSP	REC	120	%	40-140
OP33552-BS1	1031-07-8	Endosulfan sulfate	BSP	REC	112	%	40-140
OP33552-BS1	7421-93-4	Endrin aldehyde	BSP	REC	112	%	40-140
OP33552-BS1	53494-70-5	Endrin ketone	BSP	REC	128	%	40-140
OP33552-BS1	959-98-8	Endosulfan-I	BSP	REC	112	%	40-140
OP33552-BS1	33213-65-9	Endosulfan-II	BSP	REC	112	%	40-140
OP33552-BS1	76-44-8	Heptachlor	BSP	REC	108	%	40-140
OP33552-BS1	1024-57-3	Heptachlor epoxide	BSP	REC	108	%	40-140
OP33552-BS1	72-43-5	Methoxychlor	BSP	REC	108	%	40-140
OP33552-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	102	%	30-150
OP33552-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	101	%	30-150
OP33552-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	81	%	30-150
OP33552-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	76	%	30-150
OP33552-BSD	309-00-2	Aldrin	BSD	REC	120	%	40-140
OP33552-BSD	309-00-2	Aldrin	BSD	RPD	11	%	20
OP33552-BSD	15972-60-8	Alachlor	BSD	REC	104	%	40-140
OP33552-BSD	319-84-6	alpha-BHC	BSD	REC	128	%	40-140
OP33552-BSD	319-84-6	alpha-BHC	BSD	RPD	10	%	20
OP33552-BSD	319-85-7	beta-BHC	BSD	REC	116	%	40-140
OP33552-BSD	319-85-7	beta-BHC	BSD	RPD	11	%	20
OP33552-BSD	319-86-8	delta-BHC	BSD	REC	124	%	40-140
OP33552-BSD	319-86-8	delta-BHC	BSD	RPD	14	%	20
OP33552-BSD	58-89-9	gamma-BHC (Lindane)	BSD	REC	120	%	40-140
OP33552-BSD	58-89-9	gamma-BHC (Lindane)	BSD	RPD	11	%	20
OP33552-BSD	60-57-1	Dieldrin	BSD	REC	124	%	40-140
OP33552-BSD	60-57-1	Dieldrin	BSD	RPD	10	%	20
OP33552-BSD	72-54-8	4,4'-DDD	BSD	REC	124	%	40-140
OP33552-BSD	72-54-8	4,4'-DDD	BSD	RPD	10	%	20
OP33552-BSD	72-55-9	4,4'-DDE	BSD	REC	120	%	40-140
OP33552-BSD	72-55-9	4,4'-DDE	BSD	RPD	14	%	20
OP33552-BSD	50-29-3	4,4'-DDT	BSD	REC	124	%	40-140
OP33552-BSD	50-29-3	4,4'-DDT	BSD	RPD	10	%	20
OP33552-BSD	72-20-8	Endrin	BSD	REC	132	%	40-140
OP33552-BSD	72-20-8	Endrin	BSD	RPD	10	%	20
OP33552-BSD	1031-07-8	Endosulfan sulfate	BSD	REC	124	%	40-140
OP33552-BSD	1031-07-8	Endosulfan sulfate	BSD	RPD	10	%	20
OP33552-BSD	7421-93-4	Endrin aldehyde	BSD	REC	120	%	40-140
OP33552-BSD	7421-93-4	Endrin aldehyde	BSD	RPD	7	%	20
OP33552-BSD	53494-70-5	Endrin ketone	BSD	REC	148 [b]	%	40-140

* Sample used for QC is not from job JD25566

QC Evaluation: CT RCP Limits

Job Number: JD25566
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/25/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP33552-BSD	53494-70-5	Endrin ketone	BSD	RPD	14	%	20
OP33552-BSD	959-98-8	Endosulfan-I	BSD	REC	124	%	40-140
OP33552-BSD	959-98-8	Endosulfan-I	BSD	RPD	10	%	20
OP33552-BSD	33213-65-9	Endosulfan-II	BSD	REC	128	%	40-140
OP33552-BSD	33213-65-9	Endosulfan-II	BSD	RPD	13	%	20
OP33552-BSD	76-44-8	Heptachlor	BSD	REC	120	%	40-140
OP33552-BSD	76-44-8	Heptachlor	BSD	RPD	11	%	20
OP33552-BSD	1024-57-3	Heptachlor epoxide	BSD	REC	120	%	40-140
OP33552-BSD	1024-57-3	Heptachlor epoxide	BSD	RPD	14	%	20
OP33552-BSD	72-43-5	Methoxychlor	BSD	REC	120	%	40-140
OP33552-BSD	72-43-5	Methoxychlor	BSD	RPD	11	%	20
OP33552-BSD	877-09-8	Tetrachloro-m-xylene (sig#1)	BSD	SURR	110	%	30-150
OP33552-BSD	877-09-8	Tetrachloro-m-xylene (sig#2)	BSD	SURR	112	%	30-150
OP33552-BSD	2051-24-3	Decachlorobiphenyl (sig#1)	BSD	SURR	94	%	30-150
OP33552-BSD	2051-24-3	Decachlorobiphenyl (sig#2)	BSD	SURR	92	%	30-150
OP33552-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	107	%	30-150
OP33552-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	106	%	30-150
OP33552-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	93	%	30-150
OP33552-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	88	%	30-150
JD25566-6	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	98	%	30-150
JD25566-6	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	96	%	30-150
JD25566-6	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	86	%	30-150
JD25566-6	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	80	%	30-150

(a) Reported from 2nd signal due to interference. 1st signal used for confirmation.
(b) Outside program requirements bias high and no associated positive found in the QC batch.

* Sample used for QC is not from job JD25566

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7785-MB	1C178375.D	1	05/26/21	PS	n/a	n/a	V1C7785

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5, JD25566-7

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/kg	
107-13-1	Acrylonitrile	ND	10	ug/kg	
71-43-2	Benzene	ND	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
74-83-9	Bromomethane	ND	5.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	2.0	ug/kg	
74-87-3	Chloromethane	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/kg	

Method Blank Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7785-MB	1C178375.D	1	05/26/21	PS	n/a	n/a	V1C7785

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5, JD25566-7

CAS No.	Compound	Result	RL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	ug/kg	
76-13-1	Freon 113	ND	5.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
591-78-6	2-Hexanone	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	ug/kg	
100-42-5	Styrene	ND	2.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	ug/kg	
109-99-9	Tetrahydrofuran	ND	10	ug/kg	
108-88-3	Toluene	ND	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/kg	
79-01-6	Trichloroethene	ND	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	ug/kg	
	m,p-Xylene	ND	1.0	ug/kg	
95-47-6	o-Xylene	ND	1.0	ug/kg	

Method Blank Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7785-MB	1C178375.D	1	05/26/21	PS	n/a	n/a	V1C7785

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5, JD25566-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	72-130%
17060-07-0	1,2-Dichloroethane-D4	91%	75-131%
2037-26-5	Toluene-D8	107%	81-121%
460-00-4	4-Bromofluorobenzene	97%	60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A9124-MB	1A211129.D	1	05/28/21	KC	n/a	n/a	V1A9124

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25566-6

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane [a]	ND	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A9124-MB	1A211129.D	1	05/28/21	KC	n/a	n/a	V1A9124

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25566-6

CAS No.	Compound	Result	RL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane [a]	ND	0.50	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A9124-MB	1A211129.D	1	05/28/21	KC	n/a	n/a	V1A9124

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25566-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	80-121%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	97%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) MDL from current instrument.

Blank Spike Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7785-BS	1C178373.D	1	05/26/21	PS	n/a	n/a	V1C7785

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5, JD25566-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	225	113	67-130
107-13-1	Acrylonitrile	50	58.0	116	69-135
71-43-2	Benzene	50	47.6	95	80-115
108-86-1	Bromobenzene	50	48.5	97	80-116
75-27-4	Bromodichloromethane	50	47.6	95	83-121
75-25-2	Bromoform	50	54.0	108	80-141
74-83-9	Bromomethane	50	52.6	105	56-146
78-93-3	2-Butanone (MEK)	200	214	107	72-134
104-51-8	n-Butylbenzene	50	47.7	95	73-124
135-98-8	sec-Butylbenzene	50	46.2	92	73-121
98-06-6	tert-Butylbenzene	50	49.2	98	74-122
75-15-0	Carbon disulfide	50	48.1	96	65-125
56-23-5	Carbon tetrachloride	50	44.1	88	75-126
108-90-7	Chlorobenzene	50	48.8	98	81-115
75-00-3	Chloroethane	50	55.2	110	72-133
67-66-3	Chloroform	50	45.6	91	75-114
74-87-3	Chloromethane	50	51.9	104	57-135
95-49-8	o-Chlorotoluene	50	47.7	95	78-117
106-43-4	p-Chlorotoluene	50	47.3	95	77-114
96-12-8	1,2-Dibromo-3-chloropropane	50	48.6	97	72-129
124-48-1	Dibromochloromethane	50	54.5	109	82-133
106-93-4	1,2-Dibromoethane	50	49.5	99	81-126
95-50-1	1,2-Dichlorobenzene	50	48.8	98	83-114
541-73-1	1,3-Dichlorobenzene	50	46.6	93	81-112
106-46-7	1,4-Dichlorobenzene	50	46.4	93	79-113
110-57-6	Trans-1,4-Dichloro-2-Butene	50	52.2	104	70-132
75-71-8	Dichlorodifluoromethane	50	44.8	90	50-150
75-34-3	1,1-Dichloroethane	50	50.5	101	75-120
107-06-2	1,2-Dichloroethane	50	45.6	91	72-117
75-35-4	1,1-Dichloroethene	50	44.8	90	69-124
156-59-2	cis-1,2-Dichloroethene	50	46.6	93	73-119
156-60-5	trans-1,2-Dichloroethene	50	44.8	90	70-123
78-87-5	1,2-Dichloropropane	50	52.1	104	80-118
142-28-9	1,3-Dichloropropane	50	55.4	111	81-116
594-20-7	2,2-Dichloropropane	50	45.3	91	74-126
563-58-6	1,1-Dichloropropene	50	49.4	99	75-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7785-BS	1C178373.D	1	05/26/21	PS	n/a	n/a	V1C7785

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5, JD25566-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	51.2	102	83-121
10061-02-6	trans-1,3-Dichloropropene	50	55.4	111	83-125
100-41-4	Ethylbenzene	50	47.2	94	80-114
76-13-1	Freon 113	50	46.7	93	69-130
87-68-3	Hexachlorobutadiene	50	45.8	92	71-125
591-78-6	2-Hexanone	200	225	113	77-126
98-82-8	Isopropylbenzene	50	45.2	90	76-121
99-87-6	p-Isopropyltoluene	50	46.6	93	74-122
1634-04-4	Methyl Tert Butyl Ether	50	49.2	98	76-127
108-10-1	4-Methyl-2-pentanone(MIBK)	200	206	103	75-129
74-95-3	Methylene bromide	50	48.0	96	83-119
75-09-2	Methylene chloride	50	48.9	98	71-120
91-20-3	Naphthalene	50	44.9	90	73-131
103-65-1	n-Propylbenzene	50	46.8	94	74-116
100-42-5	Styrene	50	46.7	93	83-118
630-20-6	1,1,1,2-Tetrachloroethane	50	50.1	100	82-128
79-34-5	1,1,2,2-Tetrachloroethane	50	54.6	109	76-120
127-18-4	Tetrachloroethene	50	48.2	96	75-125
109-99-9	Tetrahydrofuran	50	51.7	103	64-127
108-88-3	Toluene	50	49.3	99	79-115
87-61-6	1,2,3-Trichlorobenzene	50	46.8	94	75-131
120-82-1	1,2,4-Trichlorobenzene	50	48.7	97	76-130
71-55-6	1,1,1-Trichloroethane	50	44.4	89	77-122
79-00-5	1,1,2-Trichloroethane	50	56.2	112	82-119
79-01-6	Trichloroethene	50	48.8	98	82-119
75-69-4	Trichlorofluoromethane	50	45.4	91	70-134
96-18-4	1,2,3-Trichloropropane	50	50.3	101	80-118
95-63-6	1,2,4-Trimethylbenzene	50	47.1	94	77-116
108-67-8	1,3,5-Trimethylbenzene	50	46.9	94	76-118
75-01-4	Vinyl chloride	50	51.3	103	60-139
	m,p-Xylene	100	92.6	93	81-115
95-47-6	o-Xylene	50	47.8	96	82-117

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7785-BS	1C178373.D	1	05/26/21	PS	n/a	n/a	V1C7785

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5, JD25566-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	72-130%
17060-07-0	1,2-Dichloroethane-D4	96%	75-131%
2037-26-5	Toluene-D8	107%	81-121%
460-00-4	4-Bromofluorobenzene	103%	60-141%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A9124-BS	1A211127.D	1	05/28/21	KC	n/a	n/a	V1A9124

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25566-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	203	102	63-137
107-13-1	Acrylonitrile	50	41.8	84	73-134
71-43-2	Benzene	50	46.1	92	78-117
108-86-1	Bromobenzene	50	47.2	94	82-121
75-27-4	Bromodichloromethane	50	51.5	103	83-123
75-25-2	Bromoform	50	58.2	116	80-140
74-83-9	Bromomethane	50	60.8	122	26-167
78-93-3	2-Butanone (MEK)	200	205	103	73-135
104-51-8	n-Butylbenzene	50	44.6	89	78-126
135-98-8	sec-Butylbenzene	50	43.1	86	78-122
98-06-6	tert-Butylbenzene	50	44.9	90	77-122
75-15-0	Carbon disulfide	50	42.6	85	60-131
56-23-5	Carbon tetrachloride	50	50.1	100	75-127
108-90-7	Chlorobenzene	50	49.2	98	83-115
75-00-3	Chloroethane	50	47.9	96	61-135
67-66-3	Chloroform	50	49.0	98	76-118
74-87-3	Chloromethane	50	46.7	93	46-144
95-49-8	o-Chlorotoluene	50	47.0	94	80-120
106-43-4	p-Chlorotoluene	50	47.4	95	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	53.5	107	75-135
124-48-1	Dibromochloromethane	50	56.0	112	84-128
106-93-4	1,2-Dibromoethane	50	54.0	108	82-129
95-50-1	1,2-Dichlorobenzene	50	50.2	100	85-117
541-73-1	1,3-Dichlorobenzene	50	47.5	95	83-116
106-46-7	1,4-Dichlorobenzene	50	46.8	94	82-115
110-57-6	trans-1,4-Dichloro-2-Butene	50	45.0	90	49-146
75-71-8	Dichlorodifluoromethane	50	47.8	96	49-153
75-34-3	1,1-Dichloroethane	50	48.4	97	75-122
107-06-2	1,2-Dichloroethane	50	49.7	99	74-116
75-35-4	1,1-Dichloroethene	50	44.3	89	68-129
156-59-2	cis-1,2-Dichloroethene	50	49.8	100	78-120
156-60-5	trans-1,2-Dichloroethene	50	48.2	96	74-125
78-87-5	1,2-Dichloropropane	50	46.9	94	80-120
142-28-9	1,3-Dichloropropane	50	47.2	94	82-116
594-20-7	2,2-Dichloropropane	50	47.8	96	70-128
563-58-6	1,1-Dichloropropene	50	44.6	89	75-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A9124-BS	1A211127.D	1	05/28/21	KC	n/a	n/a	V1A9124

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25566-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	50.4	101	84-123
10061-02-6	trans-1,3-Dichloropropene	50	51.1	102	84-124
100-41-4	Ethylbenzene	50	46.8	94	80-115
76-13-1	Freon 113	50	45.4	91	66-136
87-68-3	Hexachlorobutadiene	50	37.1	74	68-137
591-78-6	2-Hexanone	200	187	94	74-132
98-82-8	Isopropylbenzene	50	47.3	95	79-120
99-87-6	p-Isopropyltoluene	50	44.2	88	80-122
1634-04-4	Methyl Tert Butyl Ether	50	48.0	96	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	193	97	77-129
74-95-3	Methylene bromide	50	51.0	102	83-121
75-09-2	Methylene chloride	50	49.0	98	74-125
91-20-3	Naphthalene	50	48.0	96	73-138
103-65-1	n-Propylbenzene	50	44.0	88	78-117
100-42-5	Styrene	50	49.5	99	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	53.2	106	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	50.3	101	78-122
127-18-4	Tetrachloroethene	50	45.0	90	75-125
109-99-9	Tetrahydrofuran	50	51.5	103	69-129
108-88-3	Toluene	50	44.8	90	80-115
87-61-6	1,2,3-Trichlorobenzene	50	48.6	97	73-140
120-82-1	1,2,4-Trichlorobenzene	50	47.7	95	77-137
71-55-6	1,1,1-Trichloroethane	50	50.0	100	77-124
79-00-5	1,1,2-Trichloroethane	50	50.5	101	83-118
79-01-6	Trichloroethene	50	46.4	93	80-123
75-69-4	Trichlorofluoromethane	50	54.1	108	71-134
96-18-4	1,2,3-Trichloropropane	50	50.6	101	80-121
95-63-6	1,2,4-Trimethylbenzene	50	45.8	92	81-119
108-67-8	1,3,5-Trimethylbenzene	50	44.6	89	79-120
75-01-4	Vinyl chloride	50	47.1	94	56-138
	m,p-Xylene	100	94.7	95	81-118
95-47-6	o-Xylene	50	48.0	96	81-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A9124-BS	1A211127.D	1	05/28/21	KC	n/a	n/a	V1A9124

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25566-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	85-118%
17060-07-0	1,2-Dichloroethane-D4	104%	80-121%
2037-26-5	Toluene-D8	94%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Check Std:	V1A9124-CC9006	**Injection Date:**	05/28/21
Lab File ID:	1A211125.D	**Injection Time:**	08:35
Instrument ID:	GCMS1A	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	123083	3.29	183093	4.53	265196	5.11	254720	7.54	116108	9.75
Upper Limit [a]	246166	3.79	366186	5.03	530392	5.61	509440	8.04	232216	10.25
Lower Limit [b]	61542	2.79	91547	4.03	132598	4.61	127360	7.04	58054	9.25

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V1A9124-BS	123748	3.29	180628	4.53	259680	5.11	256494	7.54	122157	9.75
V1A9124-MB	123774	3.29	191984	4.53	280023	5.11	256924	7.54	115949	9.75
ZZZZZZ	123285	3.29	193105	4.53	278139	5.11	258641	7.54	112233	9.75
ZZZZZZ	127315	3.29	187632	4.53	274391	5.11	254879	7.54	114759	9.75
ZZZZZZ	125812	3.29	188909	4.53	278464	5.11	258580	7.54	115006	9.75
ZZZZZZ	126304	3.29	189770	4.53	275288	5.11	258552	7.54	118448	9.75
JD25498-1	124852	3.29	186326	4.53	272546	5.11	252842	7.54	116071	9.75
JD25498-1MS	116816	3.29	173391	4.53	261281	5.11	250839	7.53	120083	9.75
JD25498-1MSD	129628	3.29	181937	4.53	263333	5.11	259613	7.54	122978	9.74
JD25498-1	128050	3.29	197314	4.53	284121	5.11	257945	7.54	115562	9.75
JD25566-6	136451	3.29	193989	4.53	282529	5.11	259754	7.54	115910	9.75
ZZZZZZ	136457	3.29	188368	4.53	273740	5.11	258474	7.54	115017	9.75
ZZZZZZ	136529	3.29	189540	4.53	274158	5.11	253869	7.54	113125	9.74
ZZZZZZ	140610	3.29	188388	4.54	269865	5.11	250905	7.54	115328	9.75
ZZZZZZ	139579	3.29	190740	4.53	274357	5.11	253513	7.54	116298	9.75
ZZZZZZ	133292	3.29	183261	4.54	268042	5.11	243368	7.54	117925	9.75
ZZZZZZ	132890	3.29	184921	4.53	269138	5.11	248571	7.54	121350	9.75
ZZZZZZ	129024	3.29	182128	4.53	264259	5.11	247394	7.54	113318	9.75
ZZZZZZ	132145	3.29	182772	4.53	258398	5.11	239785	7.54	113654	9.75
ZZZZZZ	133627	3.29	178312	4.53	261434	5.11	244195	7.54	115091	9.75
ZZZZZZ	131145	3.29	179007	4.54	259884	5.11	246383	7.54	113938	9.75
ZZZZZZ	132271	3.29	183284	4.53	261299	5.11	242979	7.54	110593	9.75
ZZZZZZ	129433	3.29	174159	4.53	256928	5.11	240157	7.54	112887	9.75
ZZZZZZ	127183	3.29	181662	4.53	259625	5.11	239888	7.54	111432	9.75
ZZZZZZ	130265	3.29	177220	4.53	258646	5.11	240787	7.54	111419	9.75

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Check Std:	V1C7785-CC7702	**Injection Date:**	05/26/21
Lab File ID:	1C178372.D	**Injection Time:**	09:50
Instrument ID:	GCMS1C	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	89118	7.24	298308	9.48	431026	10.40	356669	13.55	169438	15.87
Upper Limit [a]	178236	7.74	596616	9.98	862052	10.90	713338	14.05	338876	16.37
Lower Limit [b]	44559	6.74	149154	8.98	215513	9.90	178335	13.05	84719	15.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V1C7785-BS	93301	7.24	308304	9.48	454083	10.40	370641	13.55	170839	15.87
V1C7785-MB	68402	7.24	315681	9.49	431473	10.40	368496	13.55	174890	15.87
JD25530-1	89726	7.24	306871	9.49	428786	10.40	374433	13.55	179981	15.87
JD25530-2	87251	7.24	313915	9.49	440602	10.40	382695	13.55	184070	15.87
ZZZZZZ	89852	7.24	312491	9.49	437710	10.40	380335	13.55	183704	15.87
ZZZZZZ	91141	7.24	307901	9.48	434549	10.40	376009	13.55	184006	15.87
ZZZZZZ	85768	7.24	311020	9.48	431943	10.40	374517	13.55	183594	15.87
JD25530-2MS	100644	7.24	308219	9.48	451236	10.40	381816	13.55	178690	15.87
JD25530-1DUP	91188	7.24	304998	9.49	426388	10.40	368972	13.55	178093	15.87
ZZZZZZ	97900	7.24	313715	9.48	444255	10.40	386909	13.55	185076	15.87
ZZZZZZ	88484	7.24	304434	9.48	429915	10.40	373506	13.55	179196	15.87
JD25566-7	91065	7.24	310798	9.48	432571	10.40	374890	13.55	179373	15.87
JD25566-1	94562	7.24	313920	9.49	442838	10.40	385662	13.55	182780	15.87
JD25566-2	94321	7.24	312275	9.48	435462	10.40	380320	13.55	176485	15.87
JD25566-3	83096	7.24	307191	9.49	433481	10.40	374594	13.55	176994	15.87
JD25566-4	82734	7.24	301286	9.49	424325	10.40	373475	13.55	182429	15.87
JD25566-5	90649	7.24	301671	9.48	427496	10.40	375553	13.55	179999	15.87

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD25566-6	1A211138.D	106	105	100	94
V1A9124-BS	1A211127.D	106	104	94	94
V1A9124-MB	1A211129.D	106	102	100	97

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	85-118%
S2 = 1,2-Dichloroethane-D4	80-121%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

Surrogate Recovery Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8260D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD25566-1	1C178388.D	104	101	104	100
JD25566-2	1C178389.D	103	102	105	100
JD25566-3	1C178390.D	104	99	105	98
JD25566-4	1C178391.D	103	98	104	97
JD25566-5	1C178392.D	106	101	104	97
JD25566-7	1C178387.D	101	96	105	97
V1C7785-BS	1C178373.D	102	96	107	103
V1C7785-MB	1C178375.D	96	91	107	97

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	72-130%
S2 = 1,2-Dichloroethane-D4	75-131%
S3 = Toluene-D8	81-121%
S4 = 4-Bromofluorobenzene	60-141%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33486-MB1	M173074.D	1	05/27/21	CS	05/27/21	OP33486	EM7415

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	33	ug/kg	
208-96-8	Acenaphthylene	ND	33	ug/kg	
120-12-7	Anthracene	ND	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	ug/kg	
218-01-9	Chrysene	ND	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	ug/kg	
206-44-0	Fluoranthene	ND	33	ug/kg	
86-73-7	Fluorene	ND	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	ug/kg	
91-20-3	Naphthalene	ND	33	ug/kg	
85-01-8	Phenanthrene	ND	33	ug/kg	
129-00-0	Pyrene	ND	33	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	74%	7-101%
4165-62-2	Phenol-d5	79%	12-101%
118-79-6	2,4,6-Tribromophenol	97%	10-127%
4165-60-0	Nitrobenzene-d5	84%	15-114%
321-60-8	2-Fluorobiphenyl	89%	22-104%
1718-51-0	Terphenyl-d14	92%	23-121%

Method Blank Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33518-MB1	2P101949.D	1	05/28/21	HSS	05/28/21	OP33518	E2P4565

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD25566-6

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	ug/l	
218-01-9	Chrysene	ND	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	59%	10-83%
4165-62-2	Phenol-d5	41%	10-82%
118-79-6	2,4,6-Tribromophenol	108%	37-139%
4165-60-0	Nitrobenzene-d5	103%	35-127%
321-60-8	2-Fluorobiphenyl	97%	35-121%
1718-51-0	Terphenyl-d14	97%	28-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Internal standard added for SIM test	4.83	4.6	ug/l	J
	Internal standard added for SIM test	6.55	4.7	ug/l	J
	Internal standard added for SIM test	8.51	4.6	ug/l	J
	Internal standard added for SIM test	11.81	4.7	ug/l	J
	Internal standard added for SIM test	16.12	4.3	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33486-BS1	M173075.D	1	05/27/21	CS	05/27/21	OP33486	EM7415

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1450	87	24-129
208-96-8	Acenaphthylene	1670	1290	77	25-130
120-12-7	Anthracene	1670	1470	88	28-131
56-55-3	Benzo(a)anthracene	1670	1500	90	30-130
50-32-8	Benzo(a)pyrene	1670	1460	88	27-139
205-99-2	Benzo(b)fluoranthene	1670	1520	91	32-133
191-24-2	Benzo(g,h,i)perylene	1670	1390	83	24-141
207-08-9	Benzo(k)fluoranthene	1670	1270	76	26-135
218-01-9	Chrysene	1670	1480	89	29-127
53-70-3	Dibenzo(a,h)anthracene	1670	1440	86	24-135
206-44-0	Fluoranthene	1670	1430	86	31-134
86-73-7	Fluorene	1670	1370	82	26-136
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1470	88	26-137
91-20-3	Naphthalene	1670	1400	84	26-127
85-01-8	Phenanthrene	1670	1440	86	26-131
129-00-0	Pyrene	1670	1540	92	30-131

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	91%	7-101%
4165-62-2	Phenol-d5	83%	12-101%
118-79-6	2,4,6-Tribromophenol	94%	10-127%
4165-60-0	Nitrobenzene-d5	83%	15-114%
321-60-8	2-Fluorobiphenyl	79%	22-104%
1718-51-0	Terphenyl-d14	98%	23-121%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33518-BS1	2P101953.D	1	05/28/21	HSS	05/28/21	OP33518	E2P4565
OP33518-BSD	2P101954.D	1	05/28/21	HSS	05/28/21	OP33518	E2P4565

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD25566-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	50	45.9	92	47.6	95	4	45-120/25
208-96-8	Acenaphthylene	50	44.0	88	45.3	91	3	44-118/25
120-12-7	Anthracene	50	46.3	93	49.0	98	6	58-114/24
56-55-3	Benzo(a)anthracene	50	47.2	94	50.1	100	6	60-120/24
50-32-8	Benzo(a)pyrene	50	48.5	97	51.5	103	6	55-125/25
205-99-2	Benzo(b)fluoranthene	50	49.3	99	54.4	109	10	59-124/26
191-24-2	Benzo(g,h,i)perylene	50	48.8	98	49.4	99	1	55-130/27
207-08-9	Benzo(k)fluoranthene	50	48.9	98	47.9	96	2	56-125/24
218-01-9	Chrysene	50	46.1	92	47.2	94	2	57-118/24
53-70-3	Dibenzo(a,h)anthracene	50	50.5	101	52.7	105	4	56-123/26
206-44-0	Fluoranthene	50	50.2	100	54.4	109	8	60-122/24
86-73-7	Fluorene	50	47.9	96	50.3	101	5	49-128/24
193-39-5	Indeno(1,2,3-cd)pyrene	50	56.7	113	58.2	116	3	53-133/27
91-20-3	Naphthalene	50	45.8	92	47.8	96	4	43-109/28
85-01-8	Phenanthrene	50	46.3	93	48.3	97	4	58-117/23
129-00-0	Pyrene	50	47.1	94	48.9	98	4	56-122/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	63%	67%	10-83%
4165-62-2	Phenol-d5	41%	43%	10-82%
118-79-6	2,4,6-Tribromophenol	112%	123%	37-139%
4165-60-0	Nitrobenzene-d5	101%	105%	35-127%
321-60-8	2-Fluorobiphenyl	96%	99%	35-121%
1718-51-0	Terphenyl-d14	98%	101%	28-135%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Check Std: E2P4565-CC4537 **Injection Date:** 05/28/21
Lab File ID: 2P101945.D **Injection Time:** 14:41
Instrument ID: GCMS2P **Method:** SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	327942	4.70	1096739	5.75	666012	7.78	1308395	9.94	1364017	14.12	1277370	16.23
Upper Limit [a]	655884	5.20	2193478	6.25	1332024	8.28	2616790	10.44	2728034	14.62	2554740	16.73
Lower Limit [b]	163971	4.20	548370	5.25	333006	7.28	654198	9.44	682009	13.62	638685	15.73

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP33535-MB1	371907	4.70	1268860	5.75	760804	7.78	1493532	9.94	1485091	14.12	1477254	16.24
OP33518-MB1	382028	4.70	1337749	5.75	800069	7.78	1587718	9.94	1598794	14.12	1564603	16.24
JD25566-6	338080	4.70	1172885	5.75	700563	7.78	1379596	9.94	1402782	14.12	1380632	16.23
ZZZZZZ	379564	4.70	1285235	5.75	776020	7.78	1530431	9.94	1533023	14.12	1539449	16.24
ZZZZZZ	375885	4.70	1278161	5.75	767856	7.78	1545263	9.94	1546966	14.12	1499886	16.24
OP33518-BS1	295023	4.71	994175	5.75	582959	7.78	1121148	9.94	1142900	14.13	1105619	16.24
OP33518-BSD	376674	4.71	1231193	5.75	734692	7.78	1403017	9.95	1480950	14.13	1413305	16.24
OP33535-BS1	474603	4.71	1623463	5.75	967352	7.78	1876682	9.94	1860994	14.12	1822614	16.24
ZZZZZZ	365105	4.70	1247082	5.75	728487	7.78	1443887	9.94	1458910	14.12	1434655	16.24
ZZZZZZ	236837	4.70	775168	5.75	444827	7.78	873878	9.94	899803	14.12	924842	16.23
ZZZZZZ	313840	4.70	1071962	5.75	645858	7.78	1271211	9.94	1276561	14.12	1252703	16.23
ZZZZZZ	282959	4.70	986306	5.75	589517	7.78	1161946	9.94	1175475	14.12	1176883	16.23
ZZZZZZ	327624	4.70	1126464	5.75	647168	7.78	1331586	9.94	1359336	14.12	1344556	16.24
ZZZZZZ	366344	4.70	1263920	5.75	755095	7.78	1465859	9.94	1432027	14.12	1387227	16.24
ZZZZZZ	385807	4.70	1307271	5.75	772576	7.78	1522537	9.94	1534578	14.12	1488907	16.24
ZZZZZZ	356070	4.70	1205909	5.75	710278	7.78	1372289	9.94	1361599	14.12	1374213	16.24
ZZZZZZ	336089	4.70	1116726	5.75	628197	7.78	1187034	9.94	1307528	14.12	1315725	16.24
ZZZZZZ	283476	4.70	917854	5.75	517577	7.78	1008322	9.94	1083107	14.12	1092589	16.24
ZZZZZZ	346586	4.70	1105982	5.75	677955	7.78	1270273	9.94	1200510	14.13	1174596	16.26
OP33535-MS	230164	4.70	783953	5.75	479088	7.78	965625	9.94	990389	14.12	983151	16.24
OP33535-MSD	367275	4.70	1266206	5.75	772736	7.78	1529042	9.94	1546096	14.13	1526068	16.24
JD25637-1	405918	4.70	1396173	5.75	847216	7.78	1686360	9.94	1713058	14.13	1728055	16.24

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

7.4.1

7

Internal Standard Area Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Check Std:	EM7415-CC7405	**Injection Date:**	05/27/21
Lab File ID:	M173072.D	**Injection Time:**	20:34
Instrument ID:	GCMSM	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	188435	3.68	631105	4.62	413790	6.44	795651	8.77	694536	13.74	713436	16.28
Upper Limit [a]	376870	4.18	1262210	5.12	827580	6.94	1591302	9.27	1389072	14.24	1426872	16.78
Lower Limit [b]	94218	3.18	315553	4.12	206895	5.94	397826	8.27	347268	13.24	356718	15.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP33486-MB1	239388	3.68	821750	4.61	450817	6.43	851744	8.76	729556	13.73	713687	16.28
OP33486-BS1	183128	3.68	605271	4.61	382614	6.43	722861	8.77	612848	13.73	608236	16.28
ZZZZZZ	244405	3.67	806819	4.61	448388	6.43	849746	8.76	734223	13.73	711537	16.28
ZZZZZZ	237540	3.67	827094	4.61	454334	6.43	867823	8.76	751265	13.73	729981	16.27
ZZZZZZ	246375	3.68	834589	4.61	460210	6.43	870111	8.76	770798	13.72	728871	16.28
ZZZZZZ	220787	3.68	770472	4.61	436415	6.43	826832	8.76	721342	13.72	689276	16.28
ZZZZZZ	236184	3.67	814614	4.61	458142	6.43	857597	8.76	736811	13.72	720031	16.27
JD25566-5	220630	3.68	752761	4.61	425185	6.43	807267	8.76	702785	13.72	680203	16.28
ZZZZZZ	226514	3.68	777764	4.61	436455	6.43	827269	8.76	685595	13.72	663129	16.28
ZZZZZZ	225500	3.67	780082	4.61	427986	6.43	813648	8.76	677609	13.73	647215	16.28
JD25566-2	214903	3.68	756292	4.61	423023	6.43	803229	8.76	670612	13.73	637658	16.28
JD25566-3	225745	3.67	756329	4.61	422379	6.43	796425	8.76	681580	13.72	658003	16.27
JD25566-4	214852	3.68	726548	4.61	405245	6.43	769637	8.76	653197	13.72	627206	16.28
JD25566-1	215302	3.67	750699	4.61	427893	6.43	777347	8.76	647758	13.72	614942	16.27
ZZZZZZ	250946	3.67	849866	4.61	453433	6.43	803751	8.76	583857	13.72	533870	16.28
ZZZZZZ	255261	3.67	862766	4.61	458081	6.43	823106	8.76	599001	13.73	558249	16.28
OP33486-MS	221416	3.68	702689	4.62	444377	6.44	810966	8.77	616788	13.74	586171	16.29
OP33486-MSD	227933	3.68	724841	4.61	451460	6.43	821563	8.76	615050	13.74	560337	16.28
JD25514-4	271037	3.67	903653	4.61	498038	6.43	888603	8.76	654440	13.73	579461	16.28

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8270E **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD25566-6	2P101950.D	53	36	110	102	94	90
OP33518-BS1	2P101953.D	63	41	112	101	96	98
OP33518-BSD	2P101954.D	67	43	123	105	99	101
OP33518-MB1	2P101949.D	59	41	108	103	97	97

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-83%
S2 = Phenol-d5	10-82%
S3 = 2,4,6-Tribromophenol	37-139%
S4 = Nitrobenzene-d5	35-127%
S5 = 2-Fluorobiphenyl	35-121%
S6 = Terphenyl-d14	28-135%

Surrogate Recovery Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8270E **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD25566-1	M173087.D	58	60	84	69	71	74
JD25566-2	M173084.D	58	63	83	73	79	81
JD25566-3	M173085.D	58	64	87	77	82	79
JD25566-4	M173086.D	56	61	73	72	75	75
JD25566-5	M173081.D	53	58	75	68	72	72
OP33486-BS1	M173075.D	91	83	94	83	79	98
OP33486-MB1	M173074.D	74	79	97	84	89	92

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	7-101%
S2 = Phenol-d5	12-101%
S3 = 2,4,6-Tribromophenol	10-127%
S4 = Nitrobenzene-d5	15-114%
S5 = 2-Fluorobiphenyl	22-104%
S6 = Terphenyl-d14	23-121%

GC/LC Semi-volatiles

QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33509-MB1	8Y39439.D	1	05/28/21	CP	05/27/21	OP33509	G8Y1611

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	6.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	76%	30-130%

Method Blank Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33509-MB1	8Z39448.D	1	05/28/21	CP	05/27/21	OP33509	G8Z1691

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	6.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	88%	30-130%

Method Blank Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33490-MB1	1G166712.D	1	06/01/21	KLS	05/27/21	OP33490	G1G5676

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25566-1, JD25566-2

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.67	ug/kg	
15972-60-8	Alachlor	ND	6.7	ug/kg	
319-84-6	alpha-BHC	ND	0.67	ug/kg	
319-85-7	beta-BHC	ND	0.67	ug/kg	
319-86-8	delta-BHC	ND	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	ug/kg	
12789-03-6	Chlordane	ND	33	ug/kg	
60-57-1	Dieldrin	ND	0.67	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	ug/kg	
72-20-8	Endrin	ND	0.67	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	ug/kg	
76-44-8	Heptachlor	ND	0.67	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	ug/kg	
72-43-5	Methoxychlor	ND	1.3	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	ug/kg	
8001-35-2	Toxaphene	ND	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	74%	27-138%
877-09-8	Tetrachloro-m-xylene	71%	27-138%
2051-24-3	Decachlorobiphenyl	76%	10-179%
2051-24-3	Decachlorobiphenyl	68%	10-179%

Method Blank Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33490-MB1	8G38019.D	1	06/01/21	KLS	05/27/21	OP33490	G8G1593

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25566-1, JD25566-2

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.67	ug/kg	
15972-60-8	Alachlor	ND	6.7	ug/kg	
319-84-6	alpha-BHC	ND	0.67	ug/kg	
319-85-7	beta-BHC	ND	0.67	ug/kg	
319-86-8	delta-BHC	ND	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	ug/kg	
12789-03-6	Chlordane	ND	33	ug/kg	
60-57-1	Dieldrin	ND	0.67	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	ug/kg	
72-20-8	Endrin	ND	0.67	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	ug/kg	
76-44-8	Heptachlor	ND	0.67	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	ug/kg	
72-43-5	Methoxychlor	ND	1.3	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	ug/kg	
8001-35-2	Toxaphene	ND	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	69%	27-138%
877-09-8	Tetrachloro-m-xylene	62%	27-138%
2051-24-3	Decachlorobiphenyl	85%	10-179%
2051-24-3	Decachlorobiphenyl	82%	10-179%

Method Blank Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33552-MB1	8G38041.D	1	06/02/21	CP	05/31/21	OP33552	G8G1594

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25566-6

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0050	ug/l	
15972-60-8	Alachlor	ND	0.050	ug/l	
319-84-6	alpha-BHC	ND	0.0050	ug/l	
319-85-7	beta-BHC	ND	0.0050	ug/l	
319-86-8	delta-BHC	ND	0.0050	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0050	ug/l	
12789-03-6	Chlordane	ND	0.25	ug/l	
60-57-1	Dieldrin	ND	0.0050	ug/l	
72-54-8	4,4'-DDD	ND	0.0050	ug/l	
72-55-9	4,4'-DDE	ND	0.0050	ug/l	
50-29-3	4,4'-DDT	ND	0.0050	ug/l	
72-20-8	Endrin	ND	0.0050	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0050	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0050	ug/l	
53494-70-5	Endrin ketone	ND	0.0050	ug/l	
959-98-8	Endosulfan-I	ND	0.0050	ug/l	
33213-65-9	Endosulfan-II	ND	0.0050	ug/l	
76-44-8	Heptachlor	ND	0.0050	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0050	ug/l	
72-43-5	Methoxychlor	ND	0.010	ug/l	
8001-35-2	Toxaphene	ND	0.13	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	107%	10-165%
877-09-8	Tetrachloro-m-xylene	106%	10-165%
2051-24-3	Decachlorobiphenyl	93%	28-161%
2051-24-3	Decachlorobiphenyl	88%	28-161%

Blank Spike Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33490-BS1	8G38018.D	1	06/01/21	KLS	05/27/21	OP33490	G8G1593

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25566-1, JD25566-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	20.1	121	40-150
15972-60-8	Alachlor	16.7	16.8	101	37-150
319-84-6	alpha-BHC	16.7	15.5	93	37-150
319-85-7	beta-BHC	16.7	15.7	94	43-144
319-86-8	delta-BHC	16.7	15.1	91	15-142
58-89-9	gamma-BHC (Lindane)	16.7	15.5	93	39-148
60-57-1	Dieldrin	16.7	16.0	96 [a]	39-150
72-54-8	4,4'-DDD	16.7	15.7	94	36-144
72-55-9	4,4'-DDE	16.7	16.5	99	35-146
50-29-3	4,4'-DDT	16.7	18.3	110	36-152
72-20-8	Endrin	16.7	20.2	121	39-152
1031-07-8	Endosulfan sulfate	16.7	16.9	101	35-145
7421-93-4	Endrin aldehyde	16.7	17.9	107	34-143
959-98-8	Endosulfan-I	16.7	16.9	101	39-147
33213-65-9	Endosulfan-II	16.7	17.2	103	39-144
76-44-8	Heptachlor	16.7	16.4	98	40-149
1024-57-3	Heptachlor epoxide	16.7	17.2	103	39-149
72-43-5	Methoxychlor	16.7	18.1	109	35-145
53494-70-5	Endrin ketone	16.7	19.3	116	35-153

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	83%	27-138%
877-09-8	Tetrachloro-m-xylene	54%	27-138%
2051-24-3	Decachlorobiphenyl	97%	10-179%
2051-24-3	Decachlorobiphenyl	96%	10-179%

(a) Reported from 2nd signal due to interference. 1st signal used for confirmation.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33509-BS1	8Y39440.D	1	05/28/21	CP	05/27/21	OP33509	G8Y1611
OP33509-BSD	8Y39441.D	1	05/28/21	CP	05/27/21	OP33509	G8Y1611

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	53.3	39.7	74	37.1	70	7	32-122/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	71%	66%	30-130%

8.3.1
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* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33552-BS1	8G38042.D	1	06/02/21	CP	05/31/21	OP33552	G8G1594
OP33552-BSD	8G38043.D	1	06/02/21	CP	05/31/21	OP33552	G8G1594

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25566-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	0.25	0.27	108	0.30	120	11	10-180/75
15972-60-8	Alachlor	0.25	0.23	92	0.26	104	12	15-170/74
319-84-6	alpha-BHC	0.25	0.29	116	0.32	128	10	11-182/79
319-85-7	beta-BHC	0.25	0.26	104	0.29	116	11	14-178/70
319-86-8	delta-BHC	0.25	0.27	108	0.31	124	14	10-171/72
58-89-9	gamma-BHC (Lindane)	0.25	0.27	108	0.30	120	11	13-181/71
60-57-1	Dieldrin	0.25	0.28	112	0.31	124	10	14-179/69
72-54-8	4,4'-DDD	0.25	0.28	112	0.31	124	10	11-173/73
72-55-9	4,4'-DDE	0.25	0.26	104	0.30	120	14	10-170/81
50-29-3	4,4'-DDT	0.25	0.28	112	0.31	124	10	15-168/80
72-20-8	Endrin	0.25	0.30	120	0.33	132	10	10-193/86
1031-07-8	Endosulfan sulfate	0.25	0.28	112	0.31	124	10	12-165/78
7421-93-4	Endrin aldehyde	0.25	0.28	112	0.30	120	7	18-158/83
53494-70-5	Endrin ketone	0.25	0.32	128	0.37	148 [a]	14	13-175/88
959-98-8	Endosulfan-I	0.25	0.28	112	0.31	124	10	16-175/80
33213-65-9	Endosulfan-II	0.25	0.28	112	0.32	128	13	10-176/80
76-44-8	Heptachlor	0.25	0.27	108	0.30	120	11	14-172/71
1024-57-3	Heptachlor epoxide	0.25	0.27	108	0.30	120	14	13-178/69
72-43-5	Methoxychlor	0.25	0.27	108	0.30	120	11	10-171/89

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	102%	110%	10-165%
877-09-8	Tetrachloro-m-xylene	101%	112%	10-165%
2051-24-3	Decachlorobiphenyl	81%	94%	28-161%
2051-24-3	Decachlorobiphenyl	76%	92%	28-161%

(a) Outside program requirements bias high and no associated positive found in the QC batch.

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Check Std:	G1G5676-CC5651	**Injection Date:**	06/01/21
Lab File ID:	1G166710.D	**Injection Time:**	11:46
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	228551522	1.87	946931022	1.58
Upper Limit [a]	457103044	2.37	1893862044	2.08
Lower Limit [b]	114275761	1.37	473465511	1.08

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP33490-MB1	247283474	1.87	985344488	1.58
JD25514-5	237750193	1.87	994525363	1.58
ZZZZZZ	226575270	1.87	983260488	1.58
OP33490-MS	233599090	1.87	984146959	1.58
OP33490-MSD	228621852	1.87	815312532	1.58
ZZZZZZ	238017776	1.87	1041345967	1.58

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

8.4.1
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Internal Standard Area Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Check Std:	G8G1593-CC1478	**Injection Date:**	06/01/21
Lab File ID:	8G38016.D	**Injection Time:**	13:25
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	927131723	2.35	208106786	1.88
Upper Limit [a]	1854263446	2.85	416213572	2.38
Lower Limit [b]	463565862	1.85	104053393	1.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP33490-BS1	819792895	2.35	180187141	1.87
OP33490-MB1	854011019	2.35	189562659	1.88
ZZZZZZ	825627568	2.35	186351423	1.88
ZZZZZZ	793613983	2.35	183110264	1.87
ZZZZZZ	803146100	2.35	180429431	1.87
DA34569-1	1046973122	2.36	138193817	1.88
JD25566-1	805401996	2.35	177508447	1.88
JD25566-2	842661199	2.35	192344208	1.88
ZZZZZZ	832869458	2.35	190545670	1.87
ZZZZZZ	792530389	2.35	178177010	1.87
ZZZZZZ	803676331	2.35	187816664	1.87

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

8.4.2
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Internal Standard Area Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Check Std:	G8G1594-CC1478	**Injection Date:**	06/02/21
Lab File ID:	8G38039.D	**Injection Time:**	01:19
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	873025309	2.37	207711067	1.91
Upper Limit [a]	1746050618	2.87	415422134	2.41
Lower Limit [b]	436512655	1.87	103855534	1.41

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP33552-MB1	706530084	2.36	172345862	1.89
OP33552-BS1	725241874	2.36	176311739	1.89
OP33552-BSD	685647435	2.36	172137749	1.89
JD25566-6	725639301	2.37	172494709	1.90
OP33569-MB1	638434878	2.37	165834588	1.90
OP33569-BS1	662203488	2.37	167268371	1.90
OP33569-BSD	673642101	2.37	165835100	1.90
ZZZZZZ	707040184	2.37	170525833	1.90
ZZZZZZ	710431952	2.36	167711355	1.89
ZZZZZZ	735123516	2.37	177049197	1.89
ZZZZZZ	659320580	2.36	157018904	1.90
ZZZZZZ	602118956	2.37	144524257	1.90

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

DDT/Endrin Breakdown Check

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G1G5651-DDT	**Injection Date:**	05/13/21
Lab File ID:	1G166078.D	**Injection Time:**	22:34
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	10771314	2325568
4,4'-DDE	19628625	4369331
4,4'-DDT	1543508901	381988516
DDT Breakdown [a]	1.9 %	1.7 %
Endrin aldehyde	0	0
Endrin ketone	5280959	23049144
Endrin	893692316	244261824
Endrin Breakdown [b]	0.6 %	8.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G5651-IC5651	1G166080.D	05/13/21	23:11	00:37	Initial cal 1
G1G5651-IC5651	1G166081.D	05/13/21	23:29	00:55	Initial cal 2
G1G5651-IC5651	1G166082.D	05/13/21	23:48	01:14	Initial cal 5
G1G5651-IC5651	1G166083.D	05/14/21	00:06	01:32	Initial cal 10
G1G5651-ICC5651	1G166084.D	05/14/21	00:24	01:50	Initial cal 25
G1G5651-IC5651	1G166085.D	05/14/21	00:43	02:09	Initial cal 50
G1G5651-IC5651	1G166086.D	05/14/21	01:01	02:27	Initial cal 75
G1G5651-IC5651	1G166087.D	05/14/21	01:19	02:45	Initial cal 100
G1G5651-IC5651	1G166088.D	05/14/21	01:38	03:04	Initial cal 500
G1G5651-IC5651	1G166089.D	05/14/21	01:56	03:22	Initial cal 500
G1G5651-ICV5651	1G166091.D	05/14/21	02:33	03:59	Initial cal verification 500
G1G5651-ICV5651	1G166092.D	05/14/21	02:51	04:17	Initial cal verification 500
G1G5651-ICV5651	1G166093.D	05/14/21	03:09	04:35	Initial cal verification 25
G1G5651-ICV5651	1G166094.D	05/14/21	03:28	04:54	Initial cal verification 25

8.5.1
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DDT/Endrin Breakdown Check

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G1G5676-DDT	**Injection Date:**	06/01/21
Lab File ID:	1G166709.D	**Injection Time:**	11:27
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	34854191	8254005
4,4'-DDE	27422851	7536825
4,4'-DDT	1593946539	376697738
DDT Breakdown [a]	3.8 %	4 %
Endrin aldehyde	0	0
Endrin ketone	15626391	2834539
Endrin	984844163	251290526
Endrin Breakdown [b]	1.6 %	1.1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G5676-CC5651	1G166710.D	06/01/21	11:46	00:19	Continuing cal 50
OP33490-MB1	1G166712.D	06/01/21	12:23	00:56	Method Blank
JD25514-5	1G166714.D	06/01/21	13:05	01:38	(used for QC only; not part of job JD25566)
ZZZZZZ	1G166715.D	06/01/21	13:23	01:56	(unrelated sample)
OP33490-MS	1G166716.D	06/01/21	13:55	02:28	Matrix Spike
OP33490-MSD	1G166717.D	06/01/21	14:13	02:46	Matrix Spike Duplicate
ZZZZZZ	1G166719.D	06/01/21	15:29	04:02	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G8G1478-DDT	**Injection Date:**	02/10/21
Lab File ID:	8G35810.D	**Injection Time:**	21:20
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	4646452	16613996
4,4'-DDE	3624468	16515408
4,4'-DDT	301383294	1335582732
DDT Breakdown [a]	2.7 %	2.4 %
Endrin aldehyde	0	0
Endrin ketone	1547092	5671697
Endrin	159411387	796924784
Endrin Breakdown [b]	1 %	0.7 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1478-IC1478	8G35813.D	02/10/21	23:40	02:20	Initial cal 1
G8G1478-IC1478	8G35814.D	02/10/21	23:58	02:38	Initial cal 2
G8G1478-IC1478	8G35815.D	02/11/21	00:14	02:54	Initial cal 5
G8G1478-IC1478	8G35816.D	02/11/21	00:30	03:10	Initial cal 10
G8G1478-ICC1478	8G35817.D	02/11/21	00:47	03:27	Initial cal 25
G8G1478-IC1478	8G35818.D	02/11/21	01:03	03:43	Initial cal 50
G8G1478-IC1478	8G35819.D	02/11/21	01:19	03:59	Initial cal 75
G8G1478-IC1478	8G35820.D	02/11/21	01:36	04:16	Initial cal 100
G8G1478-IC1478	8G35821.D	02/11/21	01:52	04:32	Initial cal 500
G8G1478-IC1478	8G35822.D	02/11/21	02:08	04:48	Initial cal 500
G8G1478-ICV1478	8G35823.D	02/11/21	02:26	05:06	Initial cal verification 25
G8G1478-ICV1478	8G35824.D	02/11/21	02:43	05:23	Initial cal verification 500
G8G1478-ICV1478	8G35825.D	02/11/21	02:59	05:39	Initial cal verification 500
G8G1478-ICV1478	8G35826.D	02/11/21	03:15	05:55	Initial cal verification 50
G8G1479-CC1478	8G35827.D	02/11/21	03:31	06:11	Continuing cal 25
G8G1479-CC1478	8G35828.D	02/11/21	03:48	06:28	Continuing cal 500
G8G1479-CC1478	8G35829.D	02/11/21	04:04	06:44	Continuing cal 500
OP31544-MB1	8G35831.D	02/11/21	04:37	07:17	Method Blank
OP31544-BS1	8G35832.D	02/11/21	04:55	07:35	Blank Spike
OP31544-BSD	8G35833.D	02/11/21	05:11	07:51	Blank Spike Duplicate
JD18877-26	8G35834.D	02/11/21	05:28	08:08	(used for QC only; not part of job JD25566)
OP31544-MS	8G35835.D	02/11/21	05:44	08:24	Matrix Spike
OP31544-MSD	8G35836.D	02/11/21	06:00	08:40	Matrix Spike Duplicate
ZZZZZZ	8G35837.D	02/11/21	06:17	08:57	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G8G1478-DDT	**Injection Date:**	02/10/21
Lab File ID:	8G35810.D	**Injection Time:**	21:20
Instrument ID:	GC8G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1479-CC1478	8G35840.D	02/11/21	07:05	09:45	Continuing cal 50

DDT/Endrin Breakdown Check

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G8G1593-DDT	**Injection Date:**	06/01/21
Lab File ID:	8G38015.D	**Injection Time:**	13:03
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2784194	11509047
4,4'-DDE	9491517	33128434
4,4'-DDT	404024543	1318667657
DDT Breakdown [a]	2.9 %	3.3 %
Endrin aldehyde	0	0
Endrin ketone	2954475	5028614
Endrin	225455504	794296389
Endrin Breakdown [b]	1.3 %	0.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1593-CC1478	8G38016.D	06/01/21	13:25	00:22	Continuing cal 50
OP33490-BS1	8G38018.D	06/01/21	13:59	00:56	Blank Spike
OP33490-MB1	8G38019.D	06/01/21	14:21	01:18	Method Blank
ZZZZZZ	8G38020.D	06/01/21	14:37	01:34	(unrelated sample)
ZZZZZZ	8G38021.D	06/01/21	14:53	01:50	(unrelated sample)
ZZZZZZ	8G38022.D	06/01/21	15:09	02:06	(unrelated sample)
DA34569-1	8G38023.D	06/01/21	15:28	02:25	(used for QC only; not part of job JD25566)
JD25566-1	8G38024.D	06/01/21	16:16	03:13	L1985-11-S1
JD25566-2	8G38025.D	06/01/21	16:33	03:30	L1985-7-S2
ZZZZZZ	8G38026.D	06/01/21	16:49	03:46	(unrelated sample)
ZZZZZZ	8G38027.D	06/01/21	17:05	04:02	(unrelated sample)
ZZZZZZ	8G38028.D	06/01/21	17:22	04:19	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G8G1594-DDT	**Injection Date:**	06/01/21
Lab File ID:	8G38031.D	**Injection Time:**	22:00
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	1930564	14399661
4,4'-DDE	7228498	9326550
4,4'-DDT	350551851	1269992700
DDT Breakdown [a]	2.5 %	1.8 %
Endrin aldehyde	0	0
Endrin ketone	1915548	43950101
Endrin	194938646	785727170
Endrin Breakdown [b]	1 %	5.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1594-CC1478	8G38032.D	06/01/21	22:16	00:16	Continuing cal 25
ZZZZZZ	8G38035.D	06/01/21	23:32	01:32	(unrelated sample)
ZZZZZZ	8G38037.D	06/02/21	00:08	02:08	(unrelated sample)
G8G1594-CC1478	8G38039.D	06/02/21	01:19	03:19	Continuing cal 50
OP33552-MB1	8G38041.D	06/02/21	01:52	03:52	Method Blank
OP33552-BS1	8G38042.D	06/02/21	02:08	04:08	Blank Spike
OP33552-BSD	8G38043.D	06/02/21	02:25	04:25	Blank Spike Duplicate
JD25566-6	8G38044.D	06/02/21	02:41	04:41	EQUIP BLANK
OP33569-MB1	8G38045.D	06/02/21	03:17	05:17	Method Blank
OP33569-BS1	8G38046.D	06/02/21	03:34	05:34	Blank Spike
OP33569-BSD	8G38047.D	06/02/21	03:50	05:50	Blank Spike Duplicate
ZZZZZZ	8G38048.D	06/02/21	04:06	06:06	(unrelated sample)
ZZZZZZ	8G38049.D	06/02/21	04:23	06:23	(unrelated sample)
ZZZZZZ	8G38050.D	06/02/21	04:39	06:39	(unrelated sample)
ZZZZZZ	8G38051.D	06/02/21	05:02	07:02	(unrelated sample)
ZZZZZZ	8G38052.D	06/02/21	05:19	07:19	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8081B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD25566-6	8G38044.D	98	96	86	80
OP33552-BS1	8G38042.D	102	101	81	76
OP33552-BSD	8G38043.D	110	112	94	92
OP33552-MB1	8G38041.D	107	106	93	88

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-165%
S2 = Decachlorobiphenyl	28-161%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

8.6.1
8

Surrogate Recovery Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD25566-1	8G38024.D	76	80	84	108
JD25566-2	8G38025.D	84	85	113	95
OP33490-BS1	8G38018.D	83	54	97	96
OP33490-MB1	1G166712.D	74	71	76	68
OP33490-MB1	8G38019.D	69	62	85	82

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	27-138%
S2 = Decachlorobiphenyl	10-179%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

8.6.2
8

Surrogate Recovery Summary

Job Number: JD25566
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: CT-ETPH **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
JD25566-1	8Z39449.D	69
JD25566-2	8Z39450.D	80
JD25566-3	8Z39451.D	87
JD25566-4	8Z39452.D	70
JD25566-5	8Z39453.D	76
OP33509-BS1	8Y39440.D	71
OP33509-BSD	8Y39441.D	66
OP33509-MB1	8Y39439.D	76
OP33509-MB1	8Z39448.D	88

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	30-130%

(a) Recovery from GC signal #1

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26699
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/27/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	1.6	8		
Antimony	2.0	.17	.41		
Arsenic	2.0	.21	.28	-0.059	<2.0
Barium	20	.079	1.9	-0.020	<20
Beryllium	0.20	.03	.079		
Bismuth	2.0	.23	.51		
Boron	9.9	.23	1.5		
Cadmium	0.50	.03	.069	-0.020	<0.50
Calcium	500	.65	44		
Chromium	0.99	.03	.37	0.079	<0.99
Cobalt	5.0	.04	.28		
Copper	2.5	.079	.83	0.17	<2.5
Iron	50	.52	19		
Lead	2.0	.11	.41	-0.040	<2.0
Lithium	5.0	.48	.91		
Magnesium	500	3.2	14		
Manganese	1.5	.0099	.41		
Molybdenum	2.0	.059	.32		
Nickel	4.0	.04	.35	0.030	<4.0
Phosphorus	20	.12	3.2		
Potassium	990	7.6	31		
Selenium	2.0	.32	.64	0.069	<2.0
Silicon	20	.17	11		
Silver	0.50	.099	.17	-0.079	<0.50
Sodium	990	3.4	77		
Strontium	5.0	.03	.18		
Sulfur	9.9	.3	9.3		
Thallium	0.99	.18	.57		
Tin	20	.079	3.8		
Titanium	0.99	.05	.34		
Tungsten	5.0	.26	1.7		
Vanadium	5.0	.059	.19		
Zinc	5.0	.0099	2.3	0.32	<5.0

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26699 Methods: SW846 6010D
Matrix Type: SOLID Units: mg/kg

Prep Date: 05/27/21

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.0	.03	.23		

Associated samples MP26699: JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26699
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/27/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	191	200	95.5	80-120
Barium	191	200	95.5	80-120
Beryllium	anr			
Bismuth				
Boron				
Cadmium	188	200	94.0	80-120
Calcium	anr			
Chromium	186	200	93.0	80-120
Cobalt	anr			
Copper	189	200	94.5	80-120
Iron	anr			
Lead	190	200	95.0	80-120
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	190	200	95.0	80-120
Phosphorus				
Potassium	anr			
Selenium	187	200	93.5	80-120
Silicon				
Silver	22.1	25	88.4	80-120
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	191	200	95.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26699
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/27/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP26699: JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.1.2
9

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26699
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/27/21

Metal	JD25544-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	20.7	16.1	22.2 (a)	0-10
Barium	40.8	37.2	8.8	0-10
Beryllium	anr			
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Chromium	48.3	45.6	5.6	0-10
Cobalt	anr			
Copper	28.4	29.4	3.5	0-10
Iron	anr			
Lead	111	113	1.3	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	9.20	9.50	3.3	0-10
Phosphorus				
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	1.20	0.00	100.0(a)	0-10
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	77.7	89.9	15.7*(b)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26699 Methods: SW846 6010D
Matrix Type: SOLID Units: ug/l

Prep Date: 05/27/21

	JD25544-1		QC
Metal	Original SDL 1:5	%DIF	Limits
Zirconium			

Associated samples MP26699: JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

9.13
9

POST DIGESTATE SPIKE SUMMARY

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26699
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/27/21

Metal	Sample ml	Final ml	JD25544-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Bismuth										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Lithium										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Phosphorus										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Strontium										
Sulfur										
Thallium										
Tin										
Titanium										
Tungsten										
Vanadium										
Zinc										

POST DIGESTATE SPIKE SUMMARY

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26699
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/27/21

Metal	Sample ml	Final ml	JD25544-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Zirconium										

Associated samples MP26699: JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

9.1.4

9

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26722 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 05/27/21

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0057	.015	-0.0049	<0.033

Associated samples MP26722: JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.2.1
9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26722
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/27/21

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.34	0.333	102.0	80-120

Associated samples MP26722: JD25566-1, JD25566-2, JD25566-3, JD25566-4, JD25566-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.2.2
9

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26732
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/28/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	9.2	46		
Antimony	6.0	2.8	4.7		
Arsenic	3.0	2.6	2.8	0.30	<3.0
Barium	200	.2	13	0.0	<200
Beryllium	1.0	.2	.5		
Bismuth	20	2.5	4		
Boron	100	1.8	63		
Cadmium	3.0	.4	1	0.10	<3.0
Calcium	5000	13	99		
Cerium	100				
Chromium	10	.7	2	0.50	<10
Cobalt	50	.6	2.6		
Copper	10	.7	5.9	-0.60	<10
Iron	100	3.3	32		
Lead	3.0	2	1.8	0.20	<3.0
Lithium	50	1.5	7.3		
Magnesium	5000	25	140		
Manganese	15	.1	1.4		
Molybdenum	20	.6	3.6		
Nickel	10	.8	1.7	-0.30	<10
Phosphorus	50	7	18		
Potassium	10000	35	200		
Selenium	10	3.6	4.9	0.80	<10
Silicon	200	2.2	100		
Silver	10	.6	1.9	-0.50	<10
Sodium	10000	14	570		
Strontium	10	.1	1		
Sulfur	50	3.7	45		
Thallium	10	5.2	1.8		
Tin	10	1.4	3.7		
Titanium	10	.8	2.5		
Tungsten	50	1.3	40		
Vanadium	50	.5	1.8		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26732
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/28/21

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.3	6.9	0.60	<20
Zirconium	10	.5	4.1		

Associated samples MP26732: JD25566-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26732
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/28/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	2040	2000	102.0	80-120
Barium	1900	2000	95.0	80-120
Beryllium				
Bismuth				
Boron				
Cadmium	1900	2000	95.0	80-120
Calcium				
Cerium				
Chromium	1940	2000	97.0	80-120
Cobalt				
Copper	1860	2000	93.0	80-120
Iron	anr			
Lead	1930	2000	96.5	80-120
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	2020	2000	101.0	80-120
Phosphorus				
Potassium				
Selenium	1880	2000	94.0	80-120
Silicon				
Silver	241	250	96.4	80-120
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26732
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/28/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc	1900	2000	95.0	80-120
Zirconium				

Associated samples MP26732: JD25566-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26732
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/28/21

Metal	JD25642-3 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	20.2	20.4	1.0	0-10
Beryllium				
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Cerium				
Chromium	13.9	14.4	3.6	0-10
Cobalt				
Copper	0.00	0.00	NC	0-10
Iron	anr			
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	1.20	0.00	100.0(a)	0-10
Phosphorus				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26732
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/28/21

Metal	JD25642-3 Original	SDL 1:5	%DIF	QC Limits
Zinc	3.90	5.00	28.2 (a)	0-10
Zirconium				

Associated samples MP26732: JD25566-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26746 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/28/21

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.034	.095	-0.0038	<0.20

Associated samples MP26746: JD25566-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.4.1
9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25566
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26746
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/28/21

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	2.3	2	115.0	80-120

Associated samples MP26746: JD25566-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.4.2
9

SGS

Dayton, NJ

06/28/21

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Stantec

Eversource, Blue Hills Avenue Ext, Windsor, CT

STANCTH88836 PO#

SGS Job Number: JD25566R

Sampling Date: 05/25/21



Report to:

Stantec

Melissa.Bezanson@stantec.com

ATTN: Melissa Bezanson

Total number of pages in report: 27

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.

Caitlin Brice, M.S.
General Manager

Client Service contact: Beth Wasserman 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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EHS.US.CustomerCare@sgs.com

Sections: 1 2 3 4 5 6

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SGS LabLink@1104213 09:28 28-Jun-2021

Sample Summary

Stantec

Job No: JD25566R

Eversource, Blue Hills Avenue Ext, Windsor, CT
Project No: STANCTH88836 PO#

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD25566-2R	05/25/21	09:15	MG	05/25/21	SO	Soil	L1985-7-S2

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

2

Client: Stantec **Job No** JD25566R

Site: Eversource, Blue Hills Avenue Ext, Windsor, CT **Report Date** 6/11/2021 1:27:27 PM

On 05/25/2021, 1 Sample(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD25566R 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.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: LEACHATE **Batch ID:** OP33705

- All samples were extracted within the recommended method holding time.
- Sample(s) JD25514-10RLS were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- OP33705-LB8 for Tetrachloro-m-xylene: Outside of in house control limits.
- JD25566-2R for gamma-BHC (Lindane): More than 40 % RPD for detected concentrations between the two GC columns.
- Not all RLs meet RCP requirement.

General Chemistry By Method SW846 1312

Matrix: ALL **Batch ID:** GN18839

- The data for SW846 1312 meets quality control requirements.

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

Summary of Hits

Job Number: JD25566R
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/25/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD25566-2R	**L1985-7-S2**					
pH, SPLP Leachate		9.89			su	SW846 1312
Volume, SPLP Leachate		2.002			l	SW846 1312
Weight, SPLP Leachate		0.1001			kg	SW846 1312
Dry Weight, SPLP Leachate		0.09438			kg	SW846 1312
gamma-BHC (Lindane) [a]		0.00015	0.000010		mg/l	SW846 8081B

(a) More than 40 % RPD for detected concentrations between the two GC columns.

Sample Results

Report of Analysis

SGS LabLink@1104213 09:28 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-7-S2
Lab Sample ID: JD25566-2R
Matrix: SO - Soil
Method: SW846 8081B SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/25/21
Date Received: 05/25/21
Percent Solids: 93.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G166956.D	1	06/11/21 04:46	CP	06/10/21 12:15	OP33705	G1G5688
Run #2							

	Initial Volume	Final Volume
Run #1	500 ml	5.0 ml
Run #2		

Pesticide RCP List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
309-00-2	Aldrin	ND		0.000010	mg/l	
15972-60-8	Alachlor	ND		0.00010	mg/l	
319-84-6	alpha-BHC	ND		0.000010	mg/l	
319-85-7	beta-BHC	ND		0.000010	mg/l	
319-86-8	delta-BHC	ND		0.000010	mg/l	
58-89-9	gamma-BHC (Lindane) [a]	0.00015		0.000010	mg/l	
12789-03-6	Chlordane	ND		0.00050	mg/l	
60-57-1	Dieldrin	ND		0.000010	mg/l	
72-54-8	4,4'-DDD	ND		0.000010	mg/l	
72-55-9	4,4'-DDE	ND		0.000010	mg/l	
50-29-3	4,4'-DDT	ND		0.000010	mg/l	
72-20-8	Endrin	ND		0.000010	mg/l	
1031-07-8	Endosulfan sulfate	ND		0.000010	mg/l	
7421-93-4	Endrin aldehyde	ND		0.000010	mg/l	
53494-70-5	Endrin ketone	ND		0.000010	mg/l	
959-98-8	Endosulfan-I	ND		0.000010	mg/l	
33213-65-9	Endosulfan-II	ND		0.000010	mg/l	
76-44-8	Heptachlor	ND		0.000010	mg/l	
1024-57-3	Heptachlor epoxide	ND		0.000010	mg/l	
72-43-5	Methoxychlor	ND		0.000020	mg/l	
8001-35-2	Toxaphene	ND		0.00025	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		30-137%
877-09-8	Tetrachloro-m-xylene	97%		30-137%
2051-24-3	Decachlorobiphenyl	44%		10-137%
2051-24-3	Decachlorobiphenyl	42%		10-137%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:28 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-7-S2		
Lab Sample ID:	JD25566-2R	**Date Sampled:**	05/25/21
Matrix:	SO - Soil	**Date Received:**	05/25/21
		Percent Solids:	93.4
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	9.89		su	1	06/08/21 11:55	BM	SW846 1312
Volume, SPLP Leachate	2.002		l	1	06/08/21 11:55	BM	SW846 1312
Weight, SPLP Leachate	0.1001		kg	1	06/08/21 11:55	BM	SW846 1312
Dry Weight, SPLP Leachate	0.09438		kg	1	06/08/21 11:55	BM	SW846 1312

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

Parameter Certification Exceptions

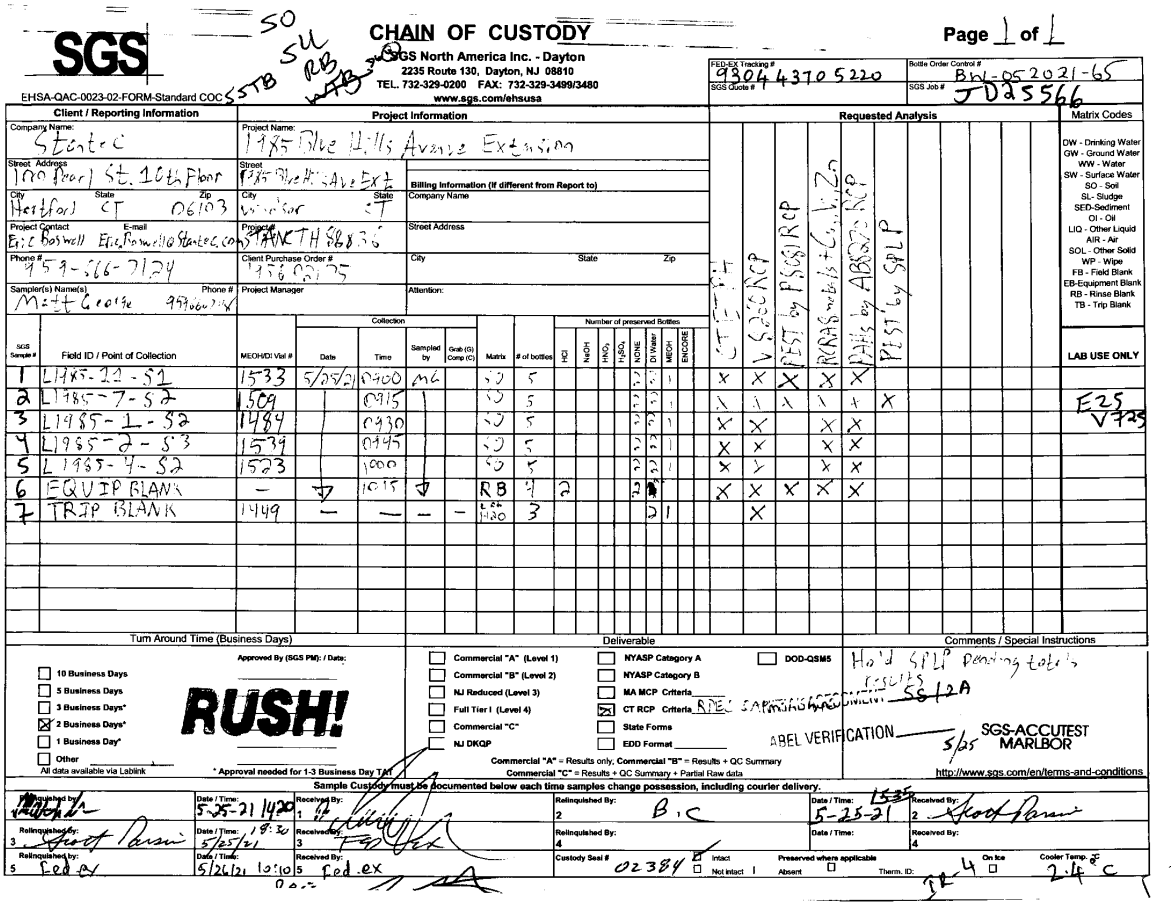
Job Number: JD25566R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Alachlor	15972-60-8	**SW846 8081B**	LEAC	SGS is not certified for this parameter.[a]

(a) Analyte is in applied status with NJDEP for this reference method.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.



SGS

EHSA-QAC-0023-02-FORM-Standard COC

CHAIN OF CUSTODY

Page 1 of 1

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 # 920443705220
Bottle Order Control # BNL-052021-65
SGS Quote # SGS Job # JD25566

Client / Reporting Information

Company Name: Stantec
Street Address: 100 Pearl St. 10th Floor
City: Hartford State: CT Zip: 06103
Project Contact: Eric Boswell E-mail: Eric.Boswell@Stantec.com
Phone #: 959-566-7124
Sampler(s) Name(s): Matt George Phone #: 9916667148

Project Information

Project Name: 1985 Blue Hills Avenue Extension
Street: 1985 Blue Hills Ave Ext
City: Windsor State: CT
Project #: STANKTH 258836
Client Purchase Order #: 156 0275
Project Manager:
Attention:

Billing Information (If different from Report to)

Company Name:
Street Address:
City State Zip:

Requested Analysis

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	Grab (G) Comp (C)	Matrix	# of bottles	Preserved Bottles: HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	CT ETPH	VOCs 8260 RCP	PEST by 8081B RCP	PCBs as AROCLORS 8082A RCP	PEST by SPLP	LAB USE ONLY
1	L1985-11-S1	1533	5/25/21	0900	MG		SO	5						1			X	X	X	X		
2	L1985-7-S2	1509		0915			SO	5						1			X	X	X	X	X	E25 V725
3	L1985-1-S2	1484		0930			SO	5						1			X	X		X	X	
4	L1985-2-S3	1539		0945			SO	5						1			X	X		X	X	
5	L1985-7-S2	1523		1000			SO	5						1			X	X		X	X	
6	EQUIP BLANK	—		1015			RB	4	2					2			X	X	X	X	X	
7	TRIP BLANK	1449	—	—	—	—	L for H2O	3						1				X				

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [x] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

RUSH!

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [x] CT RCP Criteria RBC SAMPLING
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

ABEL VERIFICATION

Commercial "A" = Results only, Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Hold SPLP pending totals results
5612A
5/25 SGS-ACCUTEST MARLBOR

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		5-25-21 1420	1	2 B.C	5-25-21 1535	2
3		5/25/21 19:30	3 Fed Ex	4		4
5	Fed Ex	5/26/21 10:10	5 Fed ex	Custody Seal # 02384 Intact / Not Intact	Preserved where applicable / Absent	On Ice / Therm. ID:	Cooler Temp. 2.4 °C

SGS Sample Receipt Summary

Job Number: JD25566 **Client:** STANTEC **Project:** EVERSOURCE, BLUE HILLS AVENUE EXT, WI

Date / Time Received: 5/25/2021 6:30:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (1.7);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☐	☑	☐
2. Trip Blank listed on COC:	☐	☑	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☐	☐	☑

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

5.2
5

Job Change Order: JD25566

Requested Date:	5/26/2021	**Received Date:**	5/25/2021
Account Name:	Stantec	**Due Date:**	5/27/2021
Project Description:	Eversource, Blue Hills Avenue Ext, Windsor, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** BW	**TAT (Days):**	7

Sample #: JD25566-ALL
Dept:
TAT: 7

Change:
Please revise to 7 day TAT as per rush pre-approval.

Above Changes Per: Lab **Date/Time:** 5/26/2021 12:49:04 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD25566

Requested Date:	6/3/2021	**Received Date:**	5/25/2021
Account Name:	Stantec	**Due Date:**	6/2/2021
Project Description:	Eversource, Blue Hills Avenue Ext, Windsor, CT	**Deliverable:**	CTRCP
C/O Initiated By:	BETHW **PM:** BW	**TAT (Days):**	7

==========

Sample #: JD25566-2

Dept:

TAT: 7

L1985-7-S2

Change:
Relog for P8081SPLPRCP, SPLPE, SPLPRATIO

==========

Above Changes Per: Eric Boswell **Date/Time:** 6/3/2021 2:26:31 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **Stantec**

Project Location: **Eversource, Blue Hills Avenue Ext, Windsor, CT** **Project Number:**

Sampling Date(s): **5/25/2021**

Laboratory Sample ID(s): JD25566-2R

Methods: EPA 160.3 M, SW846 1312, SW846 8081B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☐ No ☑
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☑ No ☐
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

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

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Caitlin Brice Position: General Manager

Printed Name: Caitlin Brice Date: 6/11/2021

SGS North America Inc.

Internal Sample Tracking Chronicle

Stantec

Job No: JD25566R

Eversource, Blue Hills Avenue Ext, Windsor, CT
Project No: STANCTH88836 PO#

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD25566-2R	Collected: 25-MAY-21 09:15 By: MG	Received: 25-MAY-21 By: DG				
L1985-7-S2						
JD25566-2R	SW846 1312	08-JUN-21 11:55	BM			SPLPRATIO
JD25566-2R	SW846 8081B	11-JUN-21 04:46	CP	10-JUN-21	LJ	P8081SPLPRCP

QC Evaluation: CT RCP Limits

Job Number: JD25566R
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/25/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No CT RCP Limits Found.

* Sample used for QC is not from job JD25566R

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD25566R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33705-MB1	1G166947.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25566-2R

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.010	ug/l	
15972-60-8	Alachlor	ND	0.10	ug/l	
319-84-6	alpha-BHC	ND	0.010	ug/l	
319-85-7	beta-BHC	ND	0.010	ug/l	
319-86-8	delta-BHC	ND	0.010	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	ug/l	
12789-03-6	Chlordane	ND	0.50	ug/l	
60-57-1	Dieldrin	ND	0.010	ug/l	
72-54-8	4,4'-DDD	ND	0.010	ug/l	
72-55-9	4,4'-DDE	ND	0.010	ug/l	
50-29-3	4,4'-DDT	ND	0.010	ug/l	
72-20-8	Endrin	ND	0.010	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	ug/l	
53494-70-5	Endrin ketone	ND	0.010	ug/l	
959-98-8	Endosulfan-I	ND	0.010	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	ug/l	
76-44-8	Heptachlor	ND	0.010	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	ug/l	
72-43-5	Methoxychlor	ND	0.020	ug/l	
8001-35-2	Toxaphene	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	103%	30-137%
877-09-8	Tetrachloro-m-xylene	105%	30-137%
2051-24-3	Decachlorobiphenyl	63%	10-137%
2051-24-3	Decachlorobiphenyl	62%	10-137%

Leachate Blank Summary

Job Number: JD25566R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33705-LB6	1G166950.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25566-2R

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.010	ug/l	
15972-60-8	Alachlor	ND	0.10	ug/l	
319-84-6	alpha-BHC	ND	0.010	ug/l	
319-85-7	beta-BHC	ND	0.010	ug/l	
319-86-8	delta-BHC	ND	0.010	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	ug/l	
12789-03-6	Chlordane	ND	0.50	ug/l	
60-57-1	Dieldrin	ND	0.010	ug/l	
72-54-8	4,4'-DDD	ND	0.010	ug/l	
72-55-9	4,4'-DDE	ND	0.010	ug/l	
50-29-3	4,4'-DDT	ND	0.010	ug/l	
72-20-8	Endrin	ND	0.010	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	ug/l	
53494-70-5	Endrin ketone	ND	0.010	ug/l	
959-98-8	Endosulfan-I	ND	0.010	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	ug/l	
76-44-8	Heptachlor	ND	0.010	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	ug/l	
72-43-5	Methoxychlor	ND	0.020	ug/l	
8001-35-2	Toxaphene	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	102%	30-137%
877-09-8	Tetrachloro-m-xylene	105%	30-137%
2051-24-3	Decachlorobiphenyl	77%	10-137%
2051-24-3	Decachlorobiphenyl	81%	10-137%

Leachate Blank Summary

Job Number: JD25566R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33705-LB8	1G166951.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25566-2R

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.010	ug/l	
15972-60-8	Alachlor	ND	0.10	ug/l	
319-84-6	alpha-BHC	ND	0.010	ug/l	
319-85-7	beta-BHC	ND	0.010	ug/l	
319-86-8	delta-BHC	ND	0.010	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	ug/l	
12789-03-6	Chlordane	ND	0.50	ug/l	
60-57-1	Dieldrin	ND	0.010	ug/l	
72-54-8	4,4'-DDD	ND	0.010	ug/l	
72-55-9	4,4'-DDE	ND	0.010	ug/l	
50-29-3	4,4'-DDT	ND	0.010	ug/l	
72-20-8	Endrin	ND	0.010	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	ug/l	
53494-70-5	Endrin ketone	ND	0.010	ug/l	
959-98-8	Endosulfan-I	ND	0.010	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	ug/l	
76-44-8	Heptachlor	ND	0.010	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	ug/l	
72-43-5	Methoxychlor	ND	0.020	ug/l	
8001-35-2	Toxaphene	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	24%* [a]	30-137%
877-09-8	Tetrachloro-m-xylene	42%	30-137%
2051-24-3	Decachlorobiphenyl	19%	10-137%
2051-24-3	Decachlorobiphenyl	23%	10-137%

(a) Outside of in house control limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD25566R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33705-BS1	1G166948.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688
OP33705-BSD	1G166949.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25566-2R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	0.5	0.54	108	0.53	106	0	21-164/30
15972-60-8	Alachlor	0.5	0.46	92	0.48	96	4	50-150/30 [a]
319-84-6	alpha-BHC	0.5	0.55	110	0.56	112	2	37-180/30
319-85-7	beta-BHC	0.5	0.54	108	0.55	110	2	44-168/30
319-86-8	delta-BHC	0.5	0.54	108	0.53	106	2	27-189/30
58-89-9	gamma-BHC (Lindane)	0.5	0.54	108	0.55	110	2	37-178/30
60-57-1	Dieldrin	0.5	0.55	110	0.55	110	0	44-177/30
72-54-8	4,4'-DDD	0.5	0.53	106	0.53	106	0	42-183/30
72-55-9	4,4'-DDE	0.5	0.55	110	0.54	108	2	39-179/30
50-29-3	4,4'-DDT	0.5	0.54	108	0.55	110	2	39-190/30
72-20-8	Endrin	0.5	0.54	108	0.54	108	0	45-182/30
1031-07-8	Endosulfan sulfate	0.5	0.48	96	0.48	96	0	45-184/30
7421-93-4	Endrin aldehyde	0.5	0.57	114	0.54	108	5	42-167/30
53494-70-5	Endrin ketone	0.5	0.55	110	0.55	110	0	39-190/30
959-98-8	Endosulfan-I	0.5	0.53	106	0.53	106	0	40-172/30
33213-65-9	Endosulfan-II	0.5	0.53	106	0.53	106	0	41-174/30
76-44-8	Heptachlor	0.5	0.53	106	0.52	104	2	26-172/30
1024-57-3	Heptachlor epoxide	0.5	0.53	106	0.53	106	0	43-173/30
72-43-5	Methoxychlor	0.5	0.56	112	0.54	108	4	40-192/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	91%	97%	30-137%
877-09-8	Tetrachloro-m-xylene	92%	98%	30-137%
2051-24-3	Decachlorobiphenyl	59%	63%	10-137%
2051-24-3	Decachlorobiphenyl	58%	62%	10-137%

(a) Advisory control limits.

* = Outside of Control Limits.

Leachate Spike Summary

Job Number: JD25566R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33705-LS6	1G166954.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688
JD25514-10R	1G166953.D	1	06/11/21	CP	06/10/21	OP33705	G1G5688

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25566-2R

CAS No.	Compound	JD25514-10R ug/l	Q	Spike ug/l	LS ug/l	LS %	Limits
309-00-2	Aldrin	ND		0.5	0.56	112	34-144
15972-60-8	Alachlor	ND		0.5	0.47	94	50-150 [a]
319-84-6	alpha-BHC	ND		0.5	0.59	118	43-160
319-85-7	beta-BHC	ND		0.5	0.56	112	40-162
319-86-8	delta-BHC	ND		0.5	0.70	140	43-167
58-89-9	gamma-BHC (Lindane)	ND		0.5	0.58	116	39-160
12789-03-6	Chlordane	ND			ND		81-123
60-57-1	Dieldrin	ND		0.5	0.60	120	41-161
72-54-8	4,4'-DDD	ND		0.5	0.58	116	39-167
72-55-9	4,4'-DDE	ND		0.5	0.58	116	37-156
50-29-3	4,4'-DDT	ND		0.5	0.53	106	34-172
72-20-8	Endrin	ND		0.5	0.59	118	43-169
1031-07-8	Endosulfan sulfate	ND		0.5	0.53	106	40-179
7421-93-4	Endrin aldehyde	ND		0.5	0.63	126	40-154
53494-70-5	Endrin ketone	ND		0.5	0.63	126	48-173
959-98-8	Endosulfan-I	ND		0.5	0.55	110	42-154
33213-65-9	Endosulfan-II	ND		0.5	0.57	114	42-159
76-44-8	Heptachlor	ND		0.5	0.55	110	35-152
1024-57-3	Heptachlor epoxide	ND		0.5	0.57	114	42-159
72-43-5	Methoxychlor	ND		0.5	0.51	102	47-170
8001-35-2	Toxaphene	ND			ND		50-150

CAS No.	Surrogate Recoveries	LS	JD25514-10R	Limits
877-09-8	Tetrachloro-m-xylene	93%	86%	30-137%
877-09-8	Tetrachloro-m-xylene	93%	87%	30-137%
2051-24-3	Decachlorobiphenyl	46%	26%	10-137%
2051-24-3	Decachlorobiphenyl	43%	42%	10-137%

(a) Advisory control limits.

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD25566R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Check Std:	G1G5688-CC5651	**Injection Date:**	06/11/21
Lab File ID:	1G166945.D	**Injection Time:**	01:24
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	233000222	1.87	1015986812	1.58
Upper Limit [a]	466000444	2.37	2031973624	2.08
Lower Limit [b]	116500111	1.37	507993406	1.08

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP33705-MB1	216066024	1.87	886971656	1.58
OP33705-BS1	221321565	1.87	910751078	1.58
OP33705-BSD	219350565	1.87	918225775	1.59
OP33705-LB6	206797989	1.87	924909198	1.58
OP33705-LB8	280284341	1.87	1606182525	1.58
ZZZZZZ	225320438	1.87	914630970	1.58
JD25514-10R	213056778	1.87	852327263	1.59
OP33705-LS6	211190413	1.87	837322209	1.58
OP33705-MS	211190413	1.87	837322209	1.58
OP33705-MSD	205148506	1.87	800041903	1.58
JD25566-2R	212870446	1.87	879626992	1.58

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

DDT/Endrin Breakdown Check

Job Number: JD25566R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G1G5651-DDT	**Injection Date:**	05/13/21
Lab File ID:	1G166078.D	**Injection Time:**	22:34
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	10771314	2325568
4,4'-DDE	19628625	4369331
4,4'-DDT	1543508901	381988516
DDT Breakdown [a]	1.9 %	1.7 %
Endrin aldehyde	0	0
Endrin ketone	5280959	23049144
Endrin	893692316	244261824
Endrin Breakdown [b]	0.6 %	8.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G5651-IC5651	1G166080.D	05/13/21	23:11	00:37	Initial cal 1
G1G5651-IC5651	1G166081.D	05/13/21	23:29	00:55	Initial cal 2
G1G5651-IC5651	1G166082.D	05/13/21	23:48	01:14	Initial cal 5
G1G5651-IC5651	1G166083.D	05/14/21	00:06	01:32	Initial cal 10
G1G5651-ICC5651	1G166084.D	05/14/21	00:24	01:50	Initial cal 25
G1G5651-IC5651	1G166085.D	05/14/21	00:43	02:09	Initial cal 50
G1G5651-IC5651	1G166086.D	05/14/21	01:01	02:27	Initial cal 75
G1G5651-IC5651	1G166087.D	05/14/21	01:19	02:45	Initial cal 100
G1G5651-IC5651	1G166088.D	05/14/21	01:38	03:04	Initial cal 500
G1G5651-IC5651	1G166089.D	05/14/21	01:56	03:22	Initial cal 500
G1G5651-ICV5651	1G166091.D	05/14/21	02:33	03:59	Initial cal verification 500
G1G5651-ICV5651	1G166092.D	05/14/21	02:51	04:17	Initial cal verification 500
G1G5651-ICV5651	1G166093.D	05/14/21	03:09	04:35	Initial cal verification 25
G1G5651-ICV5651	1G166094.D	05/14/21	03:28	04:54	Initial cal verification 25

DDT/Endrin Breakdown Check

Job Number: JD25566R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G1G5688-DDT	**Injection Date:**	06/10/21
Lab File ID:	1G166940.D	**Injection Time:**	22:35
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	18255136	4579630
4,4'-DDE	25638016	6062369
4,4'-DDT	1403481164	360794906
DDT Breakdown [a]	3 %	2.9 %
Endrin aldehyde	6283010	1606850
Endrin ketone	4329832	27881676
Endrin	872530010	246244186
Endrin Breakdown [b]	1.2 %	10.7 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G5688-CC5651	1G166941.D	06/10/21	22:54	00:19	Continuing cal 50
ZZZZZZ	1G166943.D	06/10/21	23:38	01:03	(unrelated sample)
ZZZZZZ	1G166944.D	06/10/21	23:56	01:21	(unrelated sample)
G1G5688-CC5651	1G166945.D	06/11/21	01:24	02:49	Continuing cal 25
OP33705-MB1	1G166947.D	06/11/21	02:01	03:26	Method Blank
OP33705-BS1	1G166948.D	06/11/21	02:19	03:44	Blank Spike
OP33705-BSD	1G166949.D	06/11/21	02:37	04:02	Blank Spike Duplicate
OP33705-LB6	1G166950.D	06/11/21	02:56	04:21	Leachate Blank
OP33705-LB8	1G166951.D	06/11/21	03:14	04:39	Leachate Blank
ZZZZZZ	1G166952.D	06/11/21	03:32	04:57	(unrelated sample)
JD25514-10R	1G166953.D	06/11/21	03:51	05:16	(used for QC only; not part of job JD25566R)
OP33705-MS	1G166954.D	06/11/21	04:09	05:34	Matrix Spike
OP33705-LS6	1G166954.D	06/11/21	04:09	05:34	Leachate Spike
OP33705-MSD	1G166955.D	06/11/21	04:27	05:52	Matrix Spike Duplicate
JD25566-2R	1G166956.D	06/11/21	04:46	06:11	L1985-7-S2

Surrogate Recovery Summary

Job Number: JD25566R
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8081B **Matrix:** LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD25566-2R	1G166956.D	101	97	44	42
OP33705-BS1	1G166948.D	91	92	59	58
OP33705-BSD	1G166949.D	97	98	63	62
OP33705-LB6	1G166950.D	102	105	77	81
OP33705-LB8	1G166951.D	24* [c]	42	19	23
OP33705-LS6	1G166954.D	93	93	46	43
OP33705-MB1	1G166947.D	103	105	63	62

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	30-137%
S2 = Decachlorobiphenyl	10-137%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside of in house control limits.

SGS

Dayton, NJ

06/28/21

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Stantec

Eversource, Blue Hills Avenue Ext, Windsor, CT

SGS Job Number: JD25798

Sampling Date: 05/28/21



Report to:

Stantec

Melissa.Bezanson@stantec.com

ATTN: Melissa Bezanson

Total number of pages in report: 100

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.

Caitlin Brice, M.S.
General Manager

Client Service contact: Beth Wasserman 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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SGS LabLink@1104213 09:34 28-Jun-2021

Sample Summary

Stantec

Job No: JD25798

Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the RL							
JD25798-1	05/28/21	09:35	MG	05/28/21	AQ	Ground Water	L1985-6MW
JD25798-2	05/28/21	10:55	MG	05/28/21	AQ	Ground Water	L1985-5MW
JD25798-3	05/28/21	13:45	MG	05/28/21	AQ	Ground Water	L1985-10MW
JD25798-4	05/28/21	15:15	MG	05/28/21	AQ	Ground Water	L1985-3MW
JD25798-5	05/28/21	15:15	MG	05/28/21	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

2

Client: Stantec **Job No** JD25798

Site: Eversource, Blue Hills Avenue Ext, Windsor, CT **Report Date** 6/3/2021 3:55:09 PM

On 05/28/2021, 4 Sample(s), 1 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.5 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD25798 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.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** VL9876

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD25798-2 for Chloromethane: Associated CCV outside of control limits low.
- JD25798-4 for Chloromethane: Associated CCV outside of control limits low.
- JD25798-3 for Bromomethane: Associated CCV outside of control limits low. This compound is outside the RCP limits in the associated BS biased low.
- JD25798-3 for Chloromethane: Associated CCV outside of control limits low.
- JD25798-5 for Bromomethane: Associated CCV outside of control limits low. This compound is outside the RCP limits in the associated BS biased low.
- JD25798-1 for Bromomethane: Associated CCV outside of control limits low. This compound is outside the RCP limits in the associated BS biased low.
- JD25798-1 for Chloromethane: Associated CCV outside of control limits low.
- JD25798-4 for Bromomethane: Associated CCV outside of control limits low. This compound is outside the RCP limits in the associated BS biased low.
- JD25798-5 for Chloromethane: Associated CCV outside of control limits low.
- JD25798-2 for Bromomethane: Associated CCV outside of control limits low. This compound is outside the RCP limits in the associated BS biased low.
- Not all RLs meet RCP requirement.

MS Semi-volatiles By Method SW846 8270E

Matrix: AQ **Batch ID:** OP33567

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Only report PAHs.
- Not all RLs meet RCP requirement.

GC/LC Semi-volatiles By Method CT-ETPH

Matrix: AQ **Batch ID:** OP33543

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

2

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: AQ **Batch ID:** OP33569

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- RPD of OP33569-BSD for delta-BHC: Outside program requirements.
- OP33569-BSD for Endosulfan-I: Reported from 2nd signal due to interference. 1st signal used for confirmation.
- OP33569-BSD for Alachlor: Outside program requirements bias high and no associated positive found in the QC batch.
- Not all RLs meet RCP requirement.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: AQ **Batch ID:** OP33570

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- RPD of OP33570-BSD for Aroclor 1016: Outside program requirements.

GC/LC Semi-volatiles By Method SW846 8151A

Matrix: AQ **Batch ID:** OP33571

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- RPD of OP33571-BSD for Dicamba: Analytical precision exceeds in-house control limits.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP26761

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD25622-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Chromium, Copper, Zinc are outside control limits for sample MP26761-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only report requested metals.

Metals Analysis By Method SW846 7470A

Matrix: AQ **Batch ID:** MP26788

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD25798-1MS, JD25798-1MSD were used as the QC samples for metals.

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

Summary of Hits

Job Number: JD25798
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/28/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD25798-1	**L1985-6MW**					
CT-DRO (C9-C36)		1.05	0.10		mg/l	CT-ETPH
4,4'-DDE		0.022	0.0067		ug/l	SW846 8081B
4,4'-DDT		0.024	0.0067		ug/l	SW846 8081B
Heptachlor epoxide		0.012	0.0067		ug/l	SW846 8081B
Copper		10.2	10		ug/l	SW846 6010D
Lead		4.6	3.0		ug/l	SW846 6010D
Nickel		11.9	10		ug/l	SW846 6010D
JD25798-2	**L1985-5MW**					
CT-DRO (C9-C36)		0.187	0.10		mg/l	CT-ETPH
JD25798-3	**L1985-10MW**					
No hits reported in this sample.						
JD25798-4	**L1985-3MW**					
No hits reported in this sample.						
JD25798-5	**TRIP BLANK**					
No hits reported in this sample.						

Sample Results

Report of Analysis

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-6MW
Lab Sample ID: JD25798-1
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L330026.D	1	06/01/21 20:08	BK	n/a	n/a	VL9876
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-6MW		
Lab Sample ID:	JD25798-1	**Date Sampled:**	05/28/21
Matrix:	AQ - Ground Water	**Date Received:**	05/28/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		85-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-6MW		
Lab Sample ID:	JD25798-1	**Date Sampled:**	05/28/21
Matrix:	AQ - Ground Water	**Date Received:**	05/28/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		80-121%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

(a) Associated CCV outside of control limits low. This compound is outside the RCP limits in the associated BS biased low.
(b) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-6MW
Lab Sample ID: JD25798-1
Matrix: AQ - Ground Water
Method: SW846 8270E SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P76686.D	1	05/31/21 20:00	NAP	05/31/21 09:45	OP33567	E5P3615
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	ug/l	
218-01-9	Chrysene	ND	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		10-83%
4165-62-2	Phenol-d5	28%		10-82%
118-79-6	2,4,6-Tribromophenol	83%		37-139%
4165-60-0	Nitrobenzene-d5	69%		35-127%
321-60-8	2-Fluorobiphenyl	72%		35-121%
1718-51-0	Terphenyl-d14	76%		28-135%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-6MW
Lab Sample ID: JD25798-1
Matrix: AQ - Ground Water
Method: SW846 8151A SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G131894.D	1	06/01/21 17:44	TL	06/01/21 09:30	OP33571	G3G4785
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	Units	Q
94-75-7	2,4-D	ND	0.40	ug/l	
93-72-1	2,4,5-TP (Silvex)	ND	0.080	ug/l	
93-76-5	2,4,5-T	ND	0.080	ug/l	
75-99-0	Dalapon	ND	0.080	ug/l	
1918-00-9	Dicamba	ND	0.080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	76%		10-184%
19719-28-9	2,4-DCAA	45%		10-184%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-6MW
Lab Sample ID: JD25798-1
Matrix: AQ - Ground Water
Method: SW846 8081B SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G38048.D	1	06/02/21 04:06	CP	05/31/21 09:50	OP33569	G8G1594
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0067	ug/l	
15972-60-8	Alachlor	ND	0.067	ug/l	
319-84-6	alpha-BHC	ND	0.0067	ug/l	
319-85-7	beta-BHC	ND	0.0067	ug/l	
319-86-8	delta-BHC	ND	0.0067	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	ug/l	
12789-03-6	Chlordane	ND	0.33	ug/l	
60-57-1	Dieldrin	ND	0.0067	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	ug/l	
72-55-9	4,4'-DDE	0.022	0.0067	ug/l	
50-29-3	4,4'-DDT	0.024	0.0067	ug/l	
72-20-8	Endrin	ND	0.0067	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	ug/l	
76-44-8	Heptachlor	ND	0.0067	ug/l	
1024-57-3	Heptachlor epoxide	0.012	0.0067	ug/l	
72-43-5	Methoxychlor	ND	0.013	ug/l	
8001-35-2	Toxaphene	ND	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	120%		10-165%
877-09-8	Tetrachloro-m-xylene	100%		10-165%
2051-24-3	Decachlorobiphenyl	80%		28-161%
2051-24-3	Decachlorobiphenyl	77%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-6MW
Lab Sample ID: JD25798-1
Matrix: AQ - Ground Water
Method: CT-ETPH SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z39468.D	1	06/01/21 22:54	TL	05/31/21 09:50	OP33543	G8Z1692
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	1.05	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-6MW
Lab Sample ID: JD25798-1
Matrix: AQ - Ground Water
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 3.0	3.0	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Copper	10.2	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Lead	4.6	3.0	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/01/21	06/01/21	LL	SW846 7470A [1]	SW846 7470A [4]
Nickel	11.9	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA50604
(2) Instrument QC Batch: MA50612
(3) Prep QC Batch: MP26761
(4) Prep QC Batch: MP26788

RL = Reporting Limit

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-5MW
Lab Sample ID: JD25798-2
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L330027.D	1	06/01/21 20:35	BK	n/a	n/a	VL9876
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-5MW		
Lab Sample ID:	JD25798-2	**Date Sampled:**	05/28/21
Matrix:	AQ - Ground Water	**Date Received:**	05/28/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		85-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-5MW		
Lab Sample ID:	JD25798-2	**Date Sampled:**	05/28/21
Matrix:	AQ - Ground Water	**Date Received:**	05/28/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		80-121%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

(a) Associated CCV outside of control limits low. This compound is outside the RCP limits in the associated BS biased low.
(b) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-5MW
Lab Sample ID: JD25798-2
Matrix: AQ - Ground Water
Method: SW846 8270E SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P76687.D	1	05/31/21 20:27	NAP	05/31/21 09:45	OP33567	E5P3615
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	ug/l	
218-01-9	Chrysene	ND	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		10-83%
4165-62-2	Phenol-d5	29%		10-82%
118-79-6	2,4,6-Tribromophenol	88%		37-139%
4165-60-0	Nitrobenzene-d5	69%		35-127%
321-60-8	2-Fluorobiphenyl	73%		35-121%
1718-51-0	Terphenyl-d14	80%		28-135%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-5MW
Lab Sample ID: JD25798-2
Matrix: AQ - Ground Water
Method: SW846 8081B SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G38049.D	1	06/02/21 04:23	CP	05/31/21 09:50	OP33569	G8G1594
Run #2							

	Initial Volume	Final Volume
Run #1	310 ml	2.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0065	ug/l	
15972-60-8	Alachlor	ND	0.065	ug/l	
319-84-6	alpha-BHC	ND	0.0065	ug/l	
319-85-7	beta-BHC	ND	0.0065	ug/l	
319-86-8	delta-BHC	ND	0.0065	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0065	ug/l	
12789-03-6	Chlordane	ND	0.32	ug/l	
60-57-1	Dieldrin	ND	0.0065	ug/l	
72-54-8	4,4'-DDD	ND	0.0065	ug/l	
72-55-9	4,4'-DDE	ND	0.0065	ug/l	
50-29-3	4,4'-DDT	ND	0.0065	ug/l	
72-20-8	Endrin	ND	0.0065	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0065	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0065	ug/l	
53494-70-5	Endrin ketone	ND	0.0065	ug/l	
959-98-8	Endosulfan-I	ND	0.0065	ug/l	
33213-65-9	Endosulfan-II	ND	0.0065	ug/l	
76-44-8	Heptachlor	ND	0.0065	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0065	ug/l	
72-43-5	Methoxychlor	ND	0.013	ug/l	
8001-35-2	Toxaphene	ND	0.16	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		10-165%
877-09-8	Tetrachloro-m-xylene	91%		10-165%
2051-24-3	Decachlorobiphenyl	80%		28-161%
2051-24-3	Decachlorobiphenyl	76%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-5MW
Lab Sample ID: JD25798-2
Matrix: AQ - Ground Water
Method: CT-ETPH SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z39469.D	1	06/01/21 23:36	TL	05/31/21 09:50	OP33543	G8Z1692
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.187	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-5MW
Lab Sample ID: JD25798-2
Matrix: AQ - Ground Water
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 3.0	3.0	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/01/21	06/01/21	LL	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA50604
(2) Instrument QC Batch: MA50612
(3) Prep QC Batch: MP26761
(4) Prep QC Batch: MP26788

RL = Reporting Limit

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-10MW
Lab Sample ID: JD25798-3
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L330028.D	1	06/01/21 21:02	BK	n/a	n/a	VL9876
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-10MW		
Lab Sample ID:	JD25798-3	**Date Sampled:**	05/28/21
Matrix:	AQ - Ground Water	**Date Received:**	05/28/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-10MW		
Lab Sample ID:	JD25798-3	**Date Sampled:**	05/28/21
Matrix:	AQ - Ground Water	**Date Received:**	05/28/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		80-121%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

(a) Associated CCV outside of control limits low. This compound is outside the RCP limits in the associated BS biased low.
(b) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-10MW
Lab Sample ID: JD25798-3
Matrix: AQ - Ground Water
Method: SW846 8270E SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P76680.D	1	05/31/21 17:30	NAP	05/31/21 09:45	OP33567	E5P3615
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	ug/l	
218-01-9	Chrysene	ND	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		10-83%
4165-62-2	Phenol-d5	26%		10-82%
118-79-6	2,4,6-Tribromophenol	83%		37-139%
4165-60-0	Nitrobenzene-d5	64%		35-127%
321-60-8	2-Fluorobiphenyl	65%		35-121%
1718-51-0	Terphenyl-d14	72%		28-135%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-10MW
Lab Sample ID: JD25798-3
Matrix: AQ - Ground Water
Method: SW846 8151A SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G131895.D	1	06/01/21 18:11	TL	06/01/21 09:30	OP33571	G3G4785
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	Units	Q
94-75-7	2,4-D	ND	0.40	ug/l	
93-72-1	2,4,5-TP (Silvex)	ND	0.080	ug/l	
93-76-5	2,4,5-T	ND	0.080	ug/l	
75-99-0	Dalapon	ND	0.080	ug/l	
1918-00-9	Dicamba	ND	0.080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	72%		10-184%
19719-28-9	2,4-DCAA	45%		10-184%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-10MW
Lab Sample ID: JD25798-3
Matrix: AQ - Ground Water
Method: SW846 8081B SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G38050.D	1	06/02/21 04:39	CP	05/31/21 09:50	OP33569	G8G1594
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0067	ug/l	
15972-60-8	Alachlor	ND	0.067	ug/l	
319-84-6	alpha-BHC	ND	0.0067	ug/l	
319-85-7	beta-BHC	ND	0.0067	ug/l	
319-86-8	delta-BHC	ND	0.0067	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	ug/l	
12789-03-6	Chlordane	ND	0.33	ug/l	
60-57-1	Dieldrin	ND	0.0067	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	ug/l	
72-55-9	4,4'-DDE	ND	0.0067	ug/l	
50-29-3	4,4'-DDT	ND	0.0067	ug/l	
72-20-8	Endrin	ND	0.0067	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	ug/l	
76-44-8	Heptachlor	ND	0.0067	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0067	ug/l	
72-43-5	Methoxychlor	ND	0.013	ug/l	
8001-35-2	Toxaphene	ND	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		10-165%
877-09-8	Tetrachloro-m-xylene	89%		10-165%
2051-24-3	Decachlorobiphenyl	69%		28-161%
2051-24-3	Decachlorobiphenyl	65%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-10MW
Lab Sample ID: JD25798-3
Matrix: AQ - Ground Water
Method: SW846 8082A SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2466070.D	1	06/02/21 08:48	TL	05/31/21 09:50	OP33570	GXX7455
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.33	ug/l	
11104-28-2	Aroclor 1221	ND	0.33	ug/l	
11141-16-5	Aroclor 1232	ND	0.33	ug/l	
53469-21-9	Aroclor 1242	ND	0.33	ug/l	
12672-29-6	Aroclor 1248	ND	0.33	ug/l	
11097-69-1	Aroclor 1254	ND	0.33	ug/l	
11096-82-5	Aroclor 1260	ND	0.33	ug/l	
11100-14-4	Aroclor 1268	ND	0.33	ug/l	
37324-23-5	Aroclor 1262	ND	0.33	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		10-155%
877-09-8	Tetrachloro-m-xylene	95%		10-155%
2051-24-3	Decachlorobiphenyl	62%		10-151%
2051-24-3	Decachlorobiphenyl	67%		10-151%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-10MW
Lab Sample ID: JD25798-3
Matrix: AQ - Ground Water
Method: CT-ETPH SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z39470.D	1	06/02/21 00:18	TL	05/31/21 09:50	OP33543	G8Z1692
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-10MW
Lab Sample ID: JD25798-3
Matrix: AQ - Ground Water
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 3.0	3.0	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/01/21	06/01/21	LL	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA50604
(2) Instrument QC Batch: MA50612
(3) Prep QC Batch: MP26761
(4) Prep QC Batch: MP26788

RL = Reporting Limit

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-3MW
Lab Sample ID: JD25798-4
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L330029.D	1	06/01/21 21:29	BK	n/a	n/a	VL9876
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-3MW		
Lab Sample ID:	JD25798-4	**Date Sampled:**	05/28/21
Matrix:	AQ - Ground Water	**Date Received:**	05/28/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		85-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID:	L1985-3MW		
Lab Sample ID:	JD25798-4	**Date Sampled:**	05/28/21
Matrix:	AQ - Ground Water	**Date Received:**	05/28/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		80-121%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

(a) Associated CCV outside of control limits low. This compound is outside the RCP limits in the associated BS biased low.
(b) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-3MW
Lab Sample ID: JD25798-4
Matrix: AQ - Ground Water
Method: SW846 8270E SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P76688.D	1	05/31/21 20:50	NAP	05/31/21 09:45	OP33567	E5P3615
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	ug/l	
218-01-9	Chrysene	ND	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		10-83%
4165-62-2	Phenol-d5	30%		10-82%
118-79-6	2,4,6-Tribromophenol	85%		37-139%
4165-60-0	Nitrobenzene-d5	71%		35-127%
321-60-8	2-Fluorobiphenyl	70%		35-121%
1718-51-0	Terphenyl-d14	78%		28-135%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-3MW
Lab Sample ID: JD25798-4
Matrix: AQ - Ground Water
Method: SW846 8081B SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G38051.D	1	06/02/21 05:02	CP	05/31/21 09:50	OP33569	G8G1594
Run #2							

	Initial Volume	Final Volume
Run #1	310 ml	2.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0065	ug/l	
15972-60-8	Alachlor	ND	0.065	ug/l	
319-84-6	alpha-BHC	ND	0.0065	ug/l	
319-85-7	beta-BHC	ND	0.0065	ug/l	
319-86-8	delta-BHC	ND	0.0065	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0065	ug/l	
12789-03-6	Chlordane	ND	0.32	ug/l	
60-57-1	Dieldrin	ND	0.0065	ug/l	
72-54-8	4,4'-DDD	ND	0.0065	ug/l	
72-55-9	4,4'-DDE	ND	0.0065	ug/l	
50-29-3	4,4'-DDT	ND	0.0065	ug/l	
72-20-8	Endrin	ND	0.0065	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0065	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0065	ug/l	
53494-70-5	Endrin ketone	ND	0.0065	ug/l	
959-98-8	Endosulfan-I	ND	0.0065	ug/l	
33213-65-9	Endosulfan-II	ND	0.0065	ug/l	
76-44-8	Heptachlor	ND	0.0065	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0065	ug/l	
72-43-5	Methoxychlor	ND	0.013	ug/l	
8001-35-2	Toxaphene	ND	0.16	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		10-165%
877-09-8	Tetrachloro-m-xylene	106%		10-165%
2051-24-3	Decachlorobiphenyl	67%		28-161%
2051-24-3	Decachlorobiphenyl	63%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-3MW
Lab Sample ID: JD25798-4 **Date Sampled:** 05/28/21
Matrix: AQ - Ground Water **Date Received:** 05/28/21
Method: SW846 8082A SW846 3510C **Percent Solids:** n/a
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2466071.D	1	06/02/21 09:06	TL	05/31/21 09:50	OP33570	GXX7455
Run #2							

	Initial Volume	Final Volume
Run #1	310 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.32	ug/l	
11104-28-2	Aroclor 1221	ND	0.32	ug/l	
11141-16-5	Aroclor 1232	ND	0.32	ug/l	
53469-21-9	Aroclor 1242	ND	0.32	ug/l	
12672-29-6	Aroclor 1248	ND	0.32	ug/l	
11097-69-1	Aroclor 1254	ND	0.32	ug/l	
11096-82-5	Aroclor 1260	ND	0.32	ug/l	
11100-14-4	Aroclor 1268	ND	0.32	ug/l	
37324-23-5	Aroclor 1262	ND	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		10-155%
877-09-8	Tetrachloro-m-xylene	95%		10-155%
2051-24-3	Decachlorobiphenyl	51%		10-151%
2051-24-3	Decachlorobiphenyl	54%		10-151%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-3MW
Lab Sample ID: JD25798-4
Matrix: AQ - Ground Water
Method: CT-ETPH SW846 3510C
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z39471.D	1	06/02/21 01:00	TL	05/31/21 09:50	OP33543	G8Z1692
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: L1985-3MW
Lab Sample ID: JD25798-4
Matrix: AQ - Ground Water
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 3.0	3.0	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/01/21	06/01/21	LL	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/01/21	06/02/21	LL	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA50604
(2) Instrument QC Batch: MA50612
(3) Prep QC Batch: MP26761
(4) Prep QC Batch: MP26788

RL = Reporting Limit

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: JD25798-5
Matrix: AQ - Trip Blank Water
Method: SW846 8260D
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Date Sampled: 05/28/21
Date Received: 05/28/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L330020.D	1	06/01/21 17:27	BK	n/a	n/a	VL9876
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD25798-5	**Date Sampled:**	05/28/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/28/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1104213 09:34 28-Jun-2021

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD25798-5	**Date Sampled:**	05/28/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/28/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Eversource, Blue Hills Avenue Ext, Windsor, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		80-121%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

(a) Associated CCV outside of control limits low. This compound is outside the RCP limits in the associated BS biased low.
(b) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

Parameter Certification Exceptions

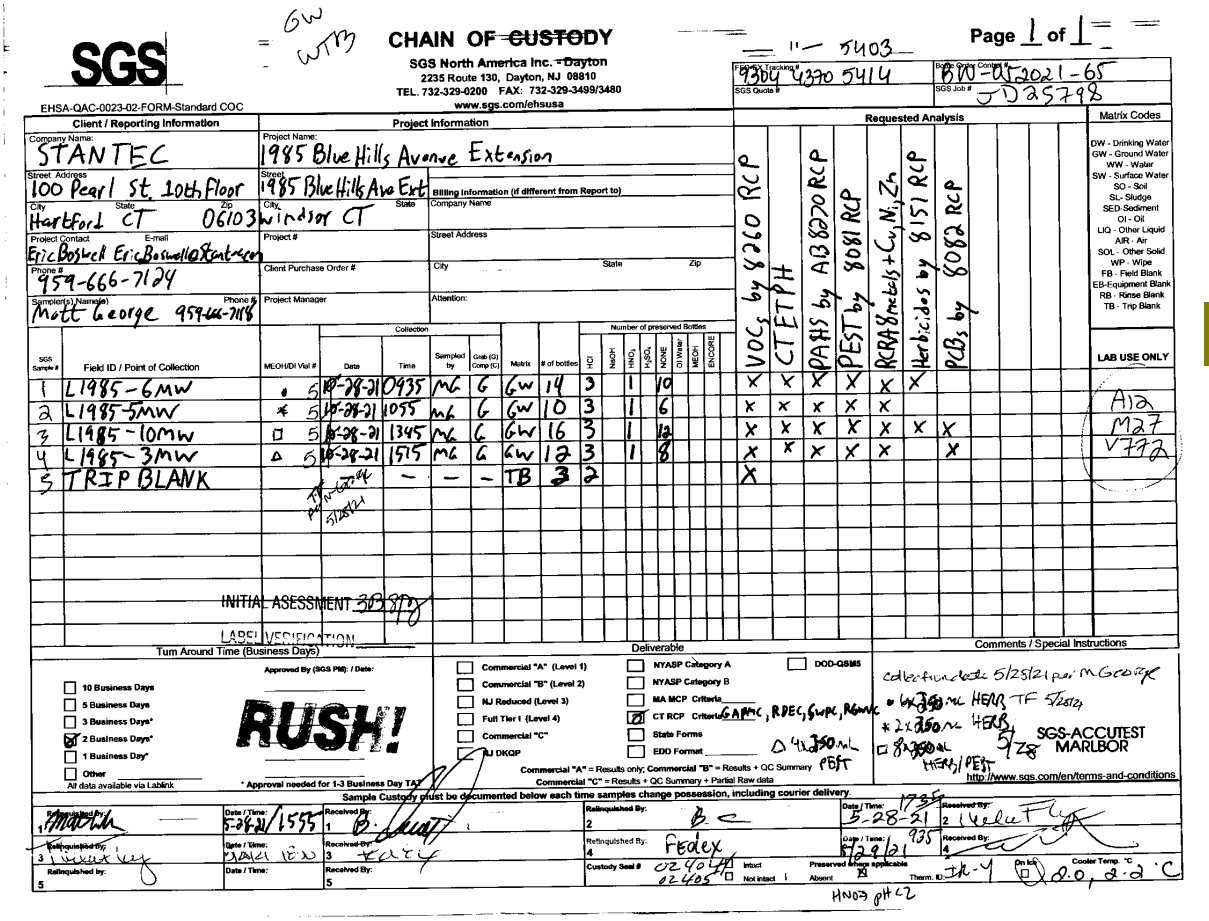
Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Alachlor	15972-60-8	**SW846 8081B**	AQ	SGS is not certified for this parameter.[a]

(a) Analyte is in applied status with NJDEP for this reference method.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.



SGS

EHSA-QAC-0023-02-FORM-Standard COC

GW WTM

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

11- 5403

Page 1 of 1

FedEx Tracking # 9304 4390 5414 | Bottle Order Control # BW-05-2021-65 | SGS Quote # | SGS Job # JD25798

Client / Reporting Information

Company Name: STANTEC
Street Address: 100 Pearl St. 10th Floor
City: Hartford State: CT Zip: 06103
Project Contact: Eric Boswell E-mail: EricBoswell@Stantec.com
Phone #: 959-666-7124
Sampler(s) Name(s): Matt George Phone #: 959-666-7118

Project Information

Project Name: 1985 Blue Hills Avenue Extension
Street: 1985 Blue Hills Ave Ext
City: Windsor State: CT
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	EnCORE	VOCs by 8260 RCP	CT ETPH	PAHs by 8270 RCP	PEST by 8081 RCP	RCRA 8 metals + Cu, Ni, Zn	Herbicides by 8151 RCP	PCBs by 8082 RCP	LAB USE ONLY
1	L1985-6MW	5	5-28-21	0935	MG	G	GW	14	3		1		10				X	X	X	X	X	X		
2	L1985-5MW	5	5-28-21	1055	MG	G	GW	10	3		1		6				X	X	X	X	X			A12
3	L1985-10MW	5	5-28-21	1345	MG	G	GW	16	3		1		12				X	X	X	X	X	X	X	M27
4	L1985-3MW	5	5-28-21	1515	MG	G	GW	12	3		1		8				X	X	X	X	X		X	V772
5	TRIP BLANK				—	—	TB	3	2								X							

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

INITIAL ASESSMENT 5-28-21
LABEL VERIFICATION

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [x] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

RUSH!

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [x] CT RCP Criteria GAPMC, RPEC, SWPC, RGWPC
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

collected under 5/25/21 per M George
• 6x 350 mL HERR TF 5/25/21
* 2x 250 mL HERR
□ 8x 350 mL HERR / PEST 5/28
Δ 4x 350 mL PEST

SGS-ACCUTEST MARLBOR

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:
1	5-28-21/1555	1 B. Lewis
3	5/28/21 1730	3 Kelly
5	Date / Time:	5

Relinquished By:	Date / Time:	Received By:
2		2
4 Fedex	5/29/21	4

Custody Seal # 02404 02405 Intact / Not Intact

Preserved where applicable: Absent

On Ice: Cooler Temp. °C: 0.0, 2.2

Therm. ID: IR-4

HNO3 pH <2

SGS Sample Receipt Summary

Job Number: JD25798 **Client:** STANTEC **Project:** EVERSOURCE, BLUE HILLS AVENUE EXT, WI

Date / Time Received: 5/28/2021 6:30:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0); Cooler 2: (2.2);

Cooler Temps (Corrected) °C: Cooler 1: (1.3); Cooler 2: (1.5);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

5.2
5

Job Change Order: JD25798

Requested Date:	6/1/2021	**Received Date:**	5/28/2021
Account Name:	Stantec	**Due Date:**	6/2/2021
Project Description:	Eversource, Blue Hills Avenue Ext, Windsor, CT	**Deliverable:**	CTRCP
C/O Initiated By:	BETHW	**PM:** BW	**TAT (Days):** 3

Sample #: JD25798-All

Dept:

TAT: 3

Change:
Revise to 3 day TAT due 6/3

Above Changes Per: CSR/Eric Boswell **Date/Time:** 6/1/2021 2:16:55 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.2 5

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: SGS North America Inc. **Client:** Stantec

Project Location: Eversource, Blue Hills Avenue Ext, Windsor, CT **Project Number:**

Sampling Date(s): 5/28/2021

Laboratory Sample ID(s): JD25798-1, JD25798-2, JD25798-3, JD25798-4, JD25798-5

Methods: CT-ETPH, SW846 6010D, SW846 7470A, SW846 8081B, SW846 8082A, SW846 8151A, SW846 8260D, SW846 8270E

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☐ No ☑
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

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

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Caitlin Brice Position: General Manager

Printed Name: Caitlin Brice Date: 6/3/2021

SGS North America Inc.

Internal Sample Tracking Chronicle

Stantec

Job No: JD25798

Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD25798-1 Collected: 28-MAY-21 09:35 By: MG Received: 28-MAY-21 By: DG L1985-6MW						
JD25798-1	SW846 8270E	31-MAY-21 20:00	NAP	31-MAY-21	TG	AB8270RCP
JD25798-1	SW846 7470A	01-JUN-21 14:42	LL	01-JUN-21	MS	HG
JD25798-1	SW846 8151A	01-JUN-21 17:44	TL	01-JUN-21	BS	H8151RCP
JD25798-1	SW846 8260D	01-JUN-21 20:08	BK			V8260RCP
JD25798-1	CT-ETPH	01-JUN-21 22:54	TL	31-MAY-21	TG	BCTTPH
JD25798-1	SW846 8081B	02-JUN-21 04:06	CP	31-MAY-21	TG	P8081RCP
JD25798-1	SW846 6010D	02-JUN-21 04:11	LL	01-JUN-21	SF	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
JD25798-2 Collected: 28-MAY-21 10:55 By: MG Received: 28-MAY-21 By: DG L1985-5MW						
JD25798-2	SW846 8270E	31-MAY-21 20:27	NAP	31-MAY-21	TG	AB8270RCP
JD25798-2	SW846 7470A	01-JUN-21 14:43	LL	01-JUN-21	MS	HG
JD25798-2	SW846 8260D	01-JUN-21 20:35	BK			V8260RCP
JD25798-2	CT-ETPH	01-JUN-21 23:36	TL	31-MAY-21	TG	BCTTPH
JD25798-2	SW846 6010D	02-JUN-21 04:16	LL	01-JUN-21	SF	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
JD25798-2	SW846 8081B	02-JUN-21 04:23	CP	31-MAY-21	TG	P8081RCP
JD25798-3 Collected: 28-MAY-21 13:45 By: MG Received: 28-MAY-21 By: DG L1985-10MW						
JD25798-3	SW846 8270E	31-MAY-21 17:30	NAP	31-MAY-21	TG	AB8270RCP
JD25798-3	SW846 7470A	01-JUN-21 14:45	LL	01-JUN-21	MS	HG
JD25798-3	SW846 8151A	01-JUN-21 18:11	TL	01-JUN-21	BS	H8151RCP
JD25798-3	SW846 8260D	01-JUN-21 21:02	BK			V8260RCP
JD25798-3	CT-ETPH	02-JUN-21 00:18	TL	31-MAY-21	TG	BCTTPH
JD25798-3	SW846 6010D	02-JUN-21 04:21	LL	01-JUN-21	SF	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
JD25798-3	SW846 8081B	02-JUN-21 04:39	CP	31-MAY-21	TG	P8081RCP
JD25798-3	SW846 8082A	02-JUN-21 08:48	TL	31-MAY-21	TG	P8082RCP
JD25798-4 Collected: 28-MAY-21 15:15 By: MG Received: 28-MAY-21 By: DG L1985-3MW						
JD25798-4	SW846 8270E	31-MAY-21 20:50	NAP	31-MAY-21	TG	AB8270RCP

SGS North America Inc.

Internal Sample Tracking Chronicle

Stantec

Job No: JD25798

Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD25798-4	SW846 7470A	01-JUN-21 14:46	LL	01-JUN-21	MS	HG
JD25798-4	SW846 8260D	01-JUN-21 21:29	BK			V8260RCP
JD25798-4	CT-ETPH	02-JUN-21 01:00	TL	31-MAY-21	TG	BCTTPH
JD25798-4	SW846 6010D	02-JUN-21 04:26	LL	01-JUN-21	SF	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
JD25798-4	SW846 8081B	02-JUN-21 05:02	CP	31-MAY-21	TG	P8081RCP
JD25798-4	SW846 8082A	02-JUN-21 09:06	TL	31-MAY-21	TG	P8082RCP
JD25798-5	Collected: 28-MAY-21 15:15 By: MG			Received: 28-MAY-21 By: DG		
TRIP BLANK						
JD25798-5	SW846 8260D	01-JUN-21 17:27	BK			V8260RCP

QC Evaluation: CT RCP Limits

Job Number: JD25798
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/28/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL9876	SW846 8260D						
VL9876-BS	67-64-1	Acetone	BSP	REC	121	%	70-130
VL9876-BS	107-13-1	Acrylonitrile	BSP	REC	84	%	70-130
VL9876-BS	71-43-2	Benzene	BSP	REC	107	%	70-130
VL9876-BS	108-86-1	Bromobenzene	BSP	REC	97	%	70-130
VL9876-BS	75-27-4	Bromodichloromethane	BSP	REC	119	%	70-130
VL9876-BS	75-25-2	Bromoform	BSP	REC	116	%	70-130
VL9876-BS	74-83-9	Bromomethane	BSP	REC	67	%	70-130
VL9876-BS	78-93-3	2-Butanone (MEK)	BSP	REC	112	%	70-130
VL9876-BS	104-51-8	n-Butylbenzene	BSP	REC	93	%	70-130
VL9876-BS	135-98-8	sec-Butylbenzene	BSP	REC	89	%	70-130
VL9876-BS	98-06-6	tert-Butylbenzene	BSP	REC	92	%	70-130
VL9876-BS	75-15-0	Carbon disulfide	BSP	REC	87	%	70-130
VL9876-BS	56-23-5	Carbon tetrachloride	BSP	REC	102	%	70-130
VL9876-BS	108-90-7	Chlorobenzene	BSP	REC	97	%	70-130
VL9876-BS	75-00-3	Chloroethane	BSP	REC	83	%	70-130
VL9876-BS	67-66-3	Chloroform	BSP	REC	90	%	70-130
VL9876-BS	74-87-3	Chloromethane	BSP	REC	72	%	70-130
VL9876-BS	95-49-8	o-Chlorotoluene	BSP	REC	92	%	70-130
VL9876-BS	106-43-4	p-Chlorotoluene	BSP	REC	95	%	70-130
VL9876-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	104	%	70-130
VL9876-BS	124-48-1	Dibromochloromethane	BSP	REC	109	%	70-130
VL9876-BS	106-93-4	1,2-Dibromoethane	BSP	REC	91	%	70-130
VL9876-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	100	%	70-130
VL9876-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	98	%	70-130
VL9876-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	98	%	70-130
VL9876-BS	110-57-6	trans-1,4-Dichloro-2-Butene	BSP	REC	102	%	70-130
VL9876-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	84	%	70-130
VL9876-BS	75-34-3	1,1-Dichloroethane	BSP	REC	95	%	70-130
VL9876-BS	107-06-2	1,2-Dichloroethane	BSP	REC	110	%	70-130
VL9876-BS	75-35-4	1,1-Dichloroethene	BSP	REC	97	%	70-130
VL9876-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	99	%	70-130
VL9876-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	96	%	70-130
VL9876-BS	78-87-5	1,2-Dichloropropane	BSP	REC	114	%	70-130
VL9876-BS	142-28-9	1,3-Dichloropropane	BSP	REC	99	%	70-130
VL9876-BS	594-20-7	2,2-Dichloropropane	BSP	REC	102	%	70-130
VL9876-BS	563-58-6	1,1-Dichloropropene	BSP	REC	92	%	70-130
VL9876-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	117	%	70-130
VL9876-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	110	%	70-130
VL9876-BS	100-41-4	Ethylbenzene	BSP	REC	92	%	70-130
VL9876-BS	76-13-1	Freon 113	BSP	REC	95	%	70-130
VL9876-BS	87-68-3	Hexachlorobutadiene	BSP	REC	92	%	70-130
VL9876-BS	591-78-6	2-Hexanone	BSP	REC	104	%	70-130

* Sample used for QC is not from job JD25798

QC Evaluation: CT RCP Limits

Job Number: JD25798
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/28/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL9876-BS	98-82-8	Isopropylbenzene	BSP	REC	93	%	70-130
VL9876-BS	99-87-6	p-Isopropyltoluene	BSP	REC	91	%	70-130
VL9876-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	102	%	70-130
VL9876-BS	108-10-1	4-Methyl-2-pentanone(MIBK)	BSP	REC	115	%	70-130
VL9876-BS	74-95-3	Methylene bromide	BSP	REC	111	%	70-130
VL9876-BS	75-09-2	Methylene chloride	BSP	REC	96	%	70-130
VL9876-BS	91-20-3	Naphthalene	BSP	REC	98	%	70-130
VL9876-BS	103-65-1	n-Propylbenzene	BSP	REC	89	%	70-130
VL9876-BS	100-42-5	Styrene	BSP	REC	99	%	70-130
VL9876-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	109	%	70-130
VL9876-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	109	%	70-130
VL9876-BS	127-18-4	Tetrachloroethene	BSP	REC	93	%	70-130
VL9876-BS	109-99-9	Tetrahydrofuran	BSP	REC	100	%	70-130
VL9876-BS	108-88-3	Toluene	BSP	REC	97	%	70-130
VL9876-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	96	%	70-130
VL9876-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	98	%	70-130
VL9876-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	97	%	70-130
VL9876-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	101	%	70-130
VL9876-BS	79-01-6	Trichloroethene	BSP	REC	105	%	70-130
VL9876-BS	75-69-4	Trichlorofluoromethane	BSP	REC	96	%	70-130
VL9876-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	99	%	70-130
VL9876-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	94	%	70-130
VL9876-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	93	%	70-130
VL9876-BS	75-01-4	Vinyl chloride	BSP	REC	83	%	70-130
VL9876-BS		m,p-Xylene	BSP	REC	93	%	70-130
VL9876-BS	95-47-6	o-Xylene	BSP	REC	96	%	70-130
VL9876-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	102	%	70-130
VL9876-BS	2037-26-5	Toluene-D8	BSP	SURR	96	%	70-130
VL9876-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	98	%	70-130
VL9876-MB	1868-53-7	Dibromofluoromethane	MB	SURR	100	%	70-130
VL9876-MB	2037-26-5	Toluene-D8	MB	SURR	104	%	70-130
VL9876-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	96	%	70-130
JD25798-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	105	%	70-130
JD25798-1	2037-26-5	Toluene-D8	SAMP	SURR	104	%	70-130
JD25798-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	96	%	70-130
JD25798-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	105	%	70-130
JD25798-2	2037-26-5	Toluene-D8	SAMP	SURR	103	%	70-130
JD25798-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	96	%	70-130
JD25798-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	70-130
JD25798-3	2037-26-5	Toluene-D8	SAMP	SURR	103	%	70-130
JD25798-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	96	%	70-130
JD25798-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	103	%	70-130
JD25798-4	2037-26-5	Toluene-D8	SAMP	SURR	103	%	70-130
JD25798-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	70-130
JD25798-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	102	%	70-130

* Sample used for QC is not from job JD25798

QC Evaluation: CT RCP Limits

Job Number: JD25798
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/28/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD25798-5	2037-26-5	Toluene-D8	SAMP	SURR	103	%	70-130
JD25798-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	97	%	70-130
OP33567	SW846 8270E						
OP33567-BS1	83-32-9	Acenaphthene	BSP	REC	91	%	40-140
OP33567-BS1	208-96-8	Acenaphthylene	BSP	REC	73	%	40-140
OP33567-BS1	120-12-7	Anthracene	BSP	REC	92	%	40-140
OP33567-BS1	56-55-3	Benzo(a)anthracene	BSP	REC	90	%	40-140
OP33567-BS1	50-32-8	Benzo(a)pyrene	BSP	REC	87	%	40-140
OP33567-BS1	205-99-2	Benzo(b)fluoranthene	BSP	REC	87	%	40-140
OP33567-BS1	191-24-2	Benzo(g,h,i)perylene	BSP	REC	84	%	40-140
OP33567-BS1	207-08-9	Benzo(k)fluoranthene	BSP	REC	85	%	40-140
OP33567-BS1	218-01-9	Chrysene	BSP	REC	88	%	40-140
OP33567-BS1	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	84	%	40-140
OP33567-BS1	206-44-0	Fluoranthene	BSP	REC	87	%	40-140
OP33567-BS1	86-73-7	Fluorene	BSP	REC	84	%	40-140
OP33567-BS1	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	83	%	40-140
OP33567-BS1	91-20-3	Naphthalene	BSP	REC	86	%	40-140
OP33567-BS1	85-01-8	Phenanthrene	BSP	REC	90	%	40-140
OP33567-BS1	129-00-0	Pyrene	BSP	REC	95	%	40-140
OP33567-BS1	367-12-4	2-Fluorophenol	BSP	SURR	71	%	15-110
OP33567-BS1	4165-62-2	Phenol-d5	BSP	SURR	43	%	15-110
OP33567-BS1	118-79-6	2,4,6-Tribromophenol	BSP	SURR	96	%	15-110
OP33567-BS1	4165-60-0	Nitrobenzene-d5	BSP	SURR	84	%	30-130
OP33567-BS1	321-60-8	2-Fluorobiphenyl	BSP	SURR	78	%	30-130
OP33567-BS1	1718-51-0	Terphenyl-d14	BSP	SURR	97	%	30-130
OP33567-BSD	83-32-9	Acenaphthene	BSD	REC	90	%	40-140
OP33567-BSD	83-32-9	Acenaphthene	BSD	RPD	0	%	20
OP33567-BSD	208-96-8	Acenaphthylene	BSD	REC	76	%	40-140
OP33567-BSD	208-96-8	Acenaphthylene	BSD	RPD	3	%	20
OP33567-BSD	120-12-7	Anthracene	BSD	REC	90	%	40-140
OP33567-BSD	120-12-7	Anthracene	BSD	RPD	2	%	20
OP33567-BSD	56-55-3	Benzo(a)anthracene	BSD	REC	89	%	40-140
OP33567-BSD	56-55-3	Benzo(a)anthracene	BSD	RPD	0	%	20
OP33567-BSD	50-32-8	Benzo(a)pyrene	BSD	REC	85	%	40-140
OP33567-BSD	50-32-8	Benzo(a)pyrene	BSD	RPD	2	%	20
OP33567-BSD	205-99-2	Benzo(b)fluoranthene	BSD	REC	86	%	40-140
OP33567-BSD	205-99-2	Benzo(b)fluoranthene	BSD	RPD	1	%	20
OP33567-BSD	191-24-2	Benzo(g,h,i)perylene	BSD	REC	80	%	40-140
OP33567-BSD	191-24-2	Benzo(g,h,i)perylene	BSD	RPD	5	%	20
OP33567-BSD	207-08-9	Benzo(k)fluoranthene	BSD	REC	83	%	40-140
OP33567-BSD	207-08-9	Benzo(k)fluoranthene	BSD	RPD	2	%	20
OP33567-BSD	218-01-9	Chrysene	BSD	REC	87	%	40-140
OP33567-BSD	218-01-9	Chrysene	BSD	RPD	2	%	20

* Sample used for QC is not from job JD25798

QC Evaluation: CT RCP Limits

Job Number: JD25798
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/28/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP33567-BSD	53-70-3	Dibenzo(a,h)anthracene	BSD	REC	83	%	40-140
OP33567-BSD	53-70-3	Dibenzo(a,h)anthracene	BSD	RPD	1	%	20
OP33567-BSD	206-44-0	Fluoranthene	BSD	REC	87	%	40-140
OP33567-BSD	206-44-0	Fluoranthene	BSD	RPD	0	%	20
OP33567-BSD	86-73-7	Fluorene	BSD	REC	86	%	40-140
OP33567-BSD	86-73-7	Fluorene	BSD	RPD	3	%	20
OP33567-BSD	193-39-5	Indeno(1,2,3-cd)pyrene	BSD	REC	82	%	40-140
OP33567-BSD	193-39-5	Indeno(1,2,3-cd)pyrene	BSD	RPD	1	%	20
OP33567-BSD	91-20-3	Naphthalene	BSD	REC	85	%	40-140
OP33567-BSD	91-20-3	Naphthalene	BSD	RPD	2	%	20
OP33567-BSD	85-01-8	Phenanthrene	BSD	REC	89	%	40-140
OP33567-BSD	85-01-8	Phenanthrene	BSD	RPD	1	%	20
OP33567-BSD	129-00-0	Pyrene	BSD	REC	95	%	40-140
OP33567-BSD	129-00-0	Pyrene	BSD	RPD	0	%	20
OP33567-BSD	367-12-4	2-Fluorophenol	BSD	SURR	68	%	15-110
OP33567-BSD	4165-62-2	Phenol-d5	BSD	SURR	40	%	15-110
OP33567-BSD	118-79-6	2,4,6-Tribromophenol	BSD	SURR	93	%	15-110
OP33567-BSD	4165-60-0	Nitrobenzene-d5	BSD	SURR	83	%	30-130
OP33567-BSD	321-60-8	2-Fluorobiphenyl	BSD	SURR	79	%	30-130
OP33567-BSD	1718-51-0	Terphenyl-d14	BSD	SURR	94	%	30-130
OP33567-MB1	367-12-4	2-Fluorophenol	MB	SURR	62	%	15-110
OP33567-MB1	4165-62-2	Phenol-d5	MB	SURR	38	%	15-110
OP33567-MB1	118-79-6	2,4,6-Tribromophenol	MB	SURR	91	%	15-110
OP33567-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	85	%	30-130
OP33567-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	85	%	30-130
OP33567-MB1	1718-51-0	Terphenyl-d14	MB	SURR	89	%	30-130
JD25798-1	367-12-4	2-Fluorophenol	SAMP	SURR	45	%	15-110
JD25798-1	4165-62-2	Phenol-d5	SAMP	SURR	28	%	15-110
JD25798-1	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	83	%	15-110
JD25798-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	69	%	30-130
JD25798-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	72	%	30-130
JD25798-1	1718-51-0	Terphenyl-d14	SAMP	SURR	76	%	30-130
JD25798-2	367-12-4	2-Fluorophenol	SAMP	SURR	45	%	15-110
JD25798-2	4165-62-2	Phenol-d5	SAMP	SURR	29	%	15-110
JD25798-2	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	88	%	15-110
JD25798-2	4165-60-0	Nitrobenzene-d5	SAMP	SURR	69	%	30-130
JD25798-2	321-60-8	2-Fluorobiphenyl	SAMP	SURR	73	%	30-130
JD25798-2	1718-51-0	Terphenyl-d14	SAMP	SURR	80	%	30-130
JD25798-3	367-12-4	2-Fluorophenol	SAMP	SURR	40	%	15-110
JD25798-3	4165-62-2	Phenol-d5	SAMP	SURR	26	%	15-110
JD25798-3	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	83	%	15-110
JD25798-3	4165-60-0	Nitrobenzene-d5	SAMP	SURR	64	%	30-130
JD25798-3	321-60-8	2-Fluorobiphenyl	SAMP	SURR	65	%	30-130
JD25798-3	1718-51-0	Terphenyl-d14	SAMP	SURR	72	%	30-130
JD25798-4	367-12-4	2-Fluorophenol	SAMP	SURR	46	%	15-110

* Sample used for QC is not from job JD25798

QC Evaluation: CT RCP Limits

Job Number: JD25798
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/28/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD25798-4	4165-62-2	Phenol-d5	SAMP	SURR	30	%	15-110
JD25798-4	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	85	%	15-110
JD25798-4	4165-60-0	Nitrobenzene-d5	SAMP	SURR	71	%	30-130
JD25798-4	321-60-8	2-Fluorobiphenyl	SAMP	SURR	70	%	30-130
JD25798-4	1718-51-0	Terphenyl-d14	SAMP	SURR	78	%	30-130
OP33569	SW846 8081B						
OP33569-BS1	309-00-2	Aldrin	BSP	REC	108	%	40-140
OP33569-BS1	15972-60-8	Alachlor	BSP	REC	102	%	40-140
OP33569-BS1	319-84-6	alpha-BHC	BSP	REC	108	%	40-140
OP33569-BS1	319-85-7	beta-BHC	BSP	REC	108	%	40-140
OP33569-BS1	319-86-8	delta-BHC	BSP	REC	96	%	40-140
OP33569-BS1	58-89-9	gamma-BHC (Lindane)	BSP	REC	108	%	40-140
OP33569-BS1	60-57-1	Dieldrin	BSP	REC	114	%	40-140
OP33569-BS1	72-54-8	4,4'-DDD	BSP	REC	108	%	40-140
OP33569-BS1	72-55-9	4,4'-DDE	BSP	REC	108	%	40-140
OP33569-BS1	50-29-3	4,4'-DDT	BSP	REC	102	%	40-140
OP33569-BS1	72-20-8	Endrin	BSP	REC	114	%	40-140
OP33569-BS1	1031-07-8	Endosulfan sulfate	BSP	REC	108	%	40-140
OP33569-BS1	7421-93-4	Endrin aldehyde	BSP	REC	114	%	40-140
OP33569-BS1	53494-70-5	Endrin ketone	BSP	REC	132	%	40-140
OP33569-BS1	959-98-8	Endosulfan-I	BSP	REC	114	%	40-140
OP33569-BS1	33213-65-9	Endosulfan-II	BSP	REC	120	%	40-140
OP33569-BS1	76-44-8	Heptachlor	BSP	REC	108	%	40-140
OP33569-BS1	1024-57-3	Heptachlor epoxide	BSP	REC	114	%	40-140
OP33569-BS1	72-43-5	Methoxychlor	BSP	REC	108	%	40-140
OP33569-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	98	%	30-150
OP33569-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	102	%	30-150
OP33569-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	103	%	30-150
OP33569-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	100	%	30-150
OP33569-BSD	309-00-2	Aldrin	BSD	REC	108	%	40-140
OP33569-BSD	309-00-2	Aldrin	BSD	RPD	0	%	20
OP33569-BSD	15972-60-8	Alachlor	BSD	REC	156 [a]	%	40-140
OP33569-BSD	319-84-6	alpha-BHC	BSD	REC	102	%	40-140
OP33569-BSD	319-84-6	alpha-BHC	BSD	RPD	6	%	20
OP33569-BSD	319-85-7	beta-BHC	BSD	REC	120	%	40-140
OP33569-BSD	319-85-7	beta-BHC	BSD	RPD	16	%	20
OP33569-BSD	319-86-8	delta-BHC	BSD	REC	96	%	40-140
OP33569-BSD	319-86-8	delta-BHC	BSD	RPD	21 [b]	%	20
OP33569-BSD	58-89-9	gamma-BHC (Lindane)	BSD	REC	102	%	40-140
OP33569-BSD	58-89-9	gamma-BHC (Lindane)	BSD	RPD	6	%	20
OP33569-BSD	60-57-1	Dieldrin	BSD	REC	102	%	40-140
OP33569-BSD	60-57-1	Dieldrin	BSD	RPD	11	%	20
OP33569-BSD	72-54-8	4,4'-DDD	BSD	REC	102	%	40-140

* Sample used for QC is not from job JD25798

QC Evaluation: CT RCP Limits

Job Number: JD25798
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/28/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP33569-BSD	72-54-8	4,4'-DDD	BSD	RPD	6	%	20
OP33569-BSD	72-55-9	4,4'-DDE	BSD	REC	102	%	40-140
OP33569-BSD	72-55-9	4,4'-DDE	BSD	RPD	6	%	20
OP33569-BSD	50-29-3	4,4'-DDT	BSD	REC	96	%	40-140
OP33569-BSD	50-29-3	4,4'-DDT	BSD	RPD	6	%	20
OP33569-BSD	72-20-8	Endrin	BSD	REC	126	%	40-140
OP33569-BSD	72-20-8	Endrin	BSD	RPD	10	%	20
OP33569-BSD	1031-07-8	Endosulfan sulfate	BSD	REC	102	%	40-140
OP33569-BSD	1031-07-8	Endosulfan sulfate	BSD	RPD	6	%	20
OP33569-BSD	7421-93-4	Endrin aldehyde	BSD	REC	108	%	40-140
OP33569-BSD	7421-93-4	Endrin aldehyde	BSD	RPD	5	%	20
OP33569-BSD	53494-70-5	Endrin ketone	BSD	REC	120	%	40-140
OP33569-BSD	53494-70-5	Endrin ketone	BSD	RPD	10	%	20
OP33569-BSD	959-98-8	Endosulfan-I	BSD	REC	102 [c]	%	40-140
OP33569-BSD	959-98-8	Endosulfan-I	BSD	RPD	11 [c]	%	20
OP33569-BSD	33213-65-9	Endosulfan-II	BSD	REC	108	%	40-140
OP33569-BSD	33213-65-9	Endosulfan-II	BSD	RPD	11	%	20
OP33569-BSD	76-44-8	Heptachlor	BSD	REC	126	%	40-140
OP33569-BSD	76-44-8	Heptachlor	BSD	RPD	15	%	20
OP33569-BSD	1024-57-3	Heptachlor epoxide	BSD	REC	132	%	40-140
OP33569-BSD	1024-57-3	Heptachlor epoxide	BSD	RPD	15	%	20
OP33569-BSD	72-43-5	Methoxychlor	BSD	REC	90	%	40-140
OP33569-BSD	72-43-5	Methoxychlor	BSD	RPD	18	%	20
OP33569-BSD	877-09-8	Tetrachloro-m-xylene (sig#1)	BSD	SURR	95	%	30-150
OP33569-BSD	877-09-8	Tetrachloro-m-xylene (sig#2)	BSD	SURR	101	%	30-150
OP33569-BSD	2051-24-3	Decachlorobiphenyl (sig#1)	BSD	SURR	92	%	30-150
OP33569-BSD	2051-24-3	Decachlorobiphenyl (sig#2)	BSD	SURR	84	%	30-150
OP33569-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	94	%	30-150
OP33569-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	102	%	30-150
OP33569-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	97	%	30-150
OP33569-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	99	%	30-150
JD25798-1	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	120	%	30-150
JD25798-1	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	100	%	30-150
JD25798-1	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	80	%	30-150
JD25798-1	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	77	%	30-150
JD25798-2	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	94	%	30-150
JD25798-2	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	91	%	30-150
JD25798-2	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	80	%	30-150
JD25798-2	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	76	%	30-150
JD25798-3	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	92	%	30-150
JD25798-3	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	89	%	30-150
JD25798-3	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	69	%	30-150
JD25798-3	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	65	%	30-150
JD25798-4	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	103	%	30-150
JD25798-4	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	106	%	30-150

* Sample used for QC is not from job JD25798

QC Evaluation: CT RCP Limits

Job Number: JD25798
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/28/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD25798-4	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	67	%	30-150
JD25798-4	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	63	%	30-150
OP33570	SW846 8082A						
OP33570-BS1	12674-11-2	Aroclor 1016	BSP	REC	120	%	40-140
OP33570-BS1	11096-82-5	Aroclor 1260	BSP	REC	120	%	40-140
OP33570-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	100	%	30-150
OP33570-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	108	%	30-150
OP33570-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	86	%	30-150
OP33570-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	94	%	30-150
OP33570-BSD	12674-11-2	Aroclor 1016	BSD	REC	97	%	40-140
OP33570-BSD	12674-11-2	Aroclor 1016	BSD	RPD	21 [b]	%	20
OP33570-BSD	11104-28-2	Aroclor 1221	BSD	RPD	0	%	20
OP33570-BSD	11141-16-5	Aroclor 1232	BSD	RPD	0	%	20
OP33570-BSD	53469-21-9	Aroclor 1242	BSD	RPD	0	%	20
OP33570-BSD	12672-29-6	Aroclor 1248	BSD	RPD	0	%	20
OP33570-BSD	11097-69-1	Aroclor 1254	BSD	RPD	0	%	20
OP33570-BSD	11096-82-5	Aroclor 1260	BSD	REC	105	%	40-140
OP33570-BSD	11096-82-5	Aroclor 1260	BSD	RPD	13	%	20
OP33570-BSD	11100-14-4	Aroclor 1268	BSD	RPD	0	%	20
OP33570-BSD	37324-23-5	Aroclor 1262	BSD	RPD	0	%	20
OP33570-BSD	877-09-8	Tetrachloro-m-xylene (sig#1)	BSD	SURR	87	%	30-150
OP33570-BSD	877-09-8	Tetrachloro-m-xylene (sig#2)	BSD	SURR	94	%	30-150
OP33570-BSD	2051-24-3	Decachlorobiphenyl (sig#1)	BSD	SURR	74	%	30-150
OP33570-BSD	2051-24-3	Decachlorobiphenyl (sig#2)	BSD	SURR	78	%	30-150
OP33570-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	103	%	30-150
OP33570-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	109	%	30-150
OP33570-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	85	%	30-150
OP33570-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	89	%	30-150
JD25798-3	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	91	%	30-150
JD25798-3	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	95	%	30-150
JD25798-3	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	62	%	30-150
JD25798-3	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	67	%	30-150
JD25798-4	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	88	%	30-150
JD25798-4	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	95	%	30-150
JD25798-4	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	51	%	30-150
JD25798-4	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	54	%	30-150
OP33571	SW846 8151A						
OP33571-BS1	94-75-7	2,4-D	BSP	REC	62	%	40-140
OP33571-BS1	93-72-1	2,4,5-TP (Silvex)	BSP	REC	47	%	40-140
OP33571-BS1	93-76-5	2,4,5-T	BSP	REC	59	%	40-140
OP33571-BS1	75-99-0	Dalapon	BSP	REC	103	%	40-140

* Sample used for QC is not from job JD25798

QC Evaluation: CT RCP Limits

Job Number: JD25798
Account: Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT
Collected: 05/28/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP33571-BS1	1918-00-9	Dicamba	BSP	REC	69	%	40-140
OP33571-BS1	19719-28-9	2,4-DCAA (sig#1)	BSP	SURR	49	%	30-150
OP33571-BS1	19719-28-9	2,4-DCAA (sig#2)	BSP	SURR	76	%	30-150
OP33571-BSD	94-75-7	2,4-D	BSD	REC	81	%	40-140
OP33571-BSD	94-75-7	2,4-D	BSD	RPD	27	%	25
OP33571-BSD	93-72-1	2,4,5-TP (Silvex)	BSD	REC	66	%	40-140
OP33571-BSD	93-72-1	2,4,5-TP (Silvex)	BSD	RPD	33	%	25
OP33571-BSD	93-76-5	2,4,5-T	BSD	REC	69	%	40-140
OP33571-BSD	93-76-5	2,4,5-T	BSD	RPD	15	%	25
OP33571-BSD	75-99-0	Dalapon	BSD	REC	94	%	40-140
OP33571-BSD	1918-00-9	Dicamba	BSD	REC	106	%	40-140
OP33571-BSD	19719-28-9	2,4-DCAA (sig#1)	BSD	SURR	59	%	30-150
OP33571-BSD	19719-28-9	2,4-DCAA (sig#2)	BSD	SURR	84	%	30-150
OP33571-MB1	19719-28-9	2,4-DCAA (sig#1)	MB	SURR	47	%	30-150
OP33571-MB1	19719-28-9	2,4-DCAA (sig#2)	MB	SURR	71	%	30-150
JD25798-1	19719-28-9	2,4-DCAA (sig#1)	SAMP	SURR	45	%	30-150
JD25798-1	19719-28-9	2,4-DCAA (sig#2)	SAMP	SURR	76	%	30-150
JD25798-3	19719-28-9	2,4-DCAA (sig#1)	SAMP	SURR	45	%	30-150
JD25798-3	19719-28-9	2,4-DCAA (sig#2)	SAMP	SURR	72	%	30-150

(a) Outside program requirements bias high and no associated positive found in the QC batch.
(b) Outside program requirements.
(c) Reported from 2nd signal due to interference. 1st signal used for confirmation.

* Sample used for QC is not from job JD25798

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9876-MB	L330009.D	1	06/01/21	BK	n/a	n/a	VL9876

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25798-1, JD25798-2, JD25798-3, JD25798-4, JD25798-5

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9876-MB	L330009.D	1	06/01/21	BK	n/a	n/a	VL9876

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25798-1, JD25798-2, JD25798-3, JD25798-4, JD25798-5

CAS No.	Compound	Result	RL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9876-MB	L330009.D	1	06/01/21	BK	n/a	n/a	VL9876

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25798-1, JD25798-2, JD25798-3, JD25798-4, JD25798-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	85-118%
17060-07-0	1,2-Dichloroethane-D4	103%	80-121%
2037-26-5	Toluene-D8	104%	80-120%
460-00-4	4-Bromofluorobenzene	96%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9876-BS	L330007.D	1	06/01/21	BK	n/a	n/a	VL9876

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25798-1, JD25798-2, JD25798-3, JD25798-4, JD25798-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	242	121	63-137
107-13-1	Acrylonitrile	50	41.9	84	73-134
71-43-2	Benzene	50	53.5	107	78-117
108-86-1	Bromobenzene	50	48.3	97	82-121
75-27-4	Bromodichloromethane	50	59.4	119	83-123
75-25-2	Bromoform	50	58.1	116	80-140
74-83-9	Bromomethane	50	33.6	67	26-167
78-93-3	2-Butanone (MEK)	200	224	112	73-135
104-51-8	n-Butylbenzene	50	46.7	93	78-126
135-98-8	sec-Butylbenzene	50	44.4	89	78-122
98-06-6	tert-Butylbenzene	50	46.1	92	77-122
75-15-0	Carbon disulfide	50	43.3	87	60-131
56-23-5	Carbon tetrachloride	50	51.2	102	75-127
108-90-7	Chlorobenzene	50	48.4	97	83-115
75-00-3	Chloroethane	50	41.7	83	61-135
67-66-3	Chloroform	50	45.1	90	76-118
74-87-3	Chloromethane	50	36.1	72	46-144
95-49-8	o-Chlorotoluene	50	46.2	92	80-120
106-43-4	p-Chlorotoluene	50	47.4	95	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	52.1	104	75-135
124-48-1	Dibromochloromethane	50	54.3	109	84-128
106-93-4	1,2-Dibromoethane	50	45.5	91	82-129
95-50-1	1,2-Dichlorobenzene	50	50.0	100	85-117
541-73-1	1,3-Dichlorobenzene	50	49.0	98	83-116
106-46-7	1,4-Dichlorobenzene	50	48.9	98	82-115
110-57-6	trans-1,4-Dichloro-2-Butene	50	50.9	102	49-146
75-71-8	Dichlorodifluoromethane	50	41.9	84	49-153
75-34-3	1,1-Dichloroethane	50	47.7	95	75-122
107-06-2	1,2-Dichloroethane	50	55.0	110	74-116
75-35-4	1,1-Dichloroethene	50	48.5	97	68-129
156-59-2	cis-1,2-Dichloroethene	50	49.3	99	78-120
156-60-5	trans-1,2-Dichloroethene	50	48.0	96	74-125
78-87-5	1,2-Dichloropropane	50	57.0	114	80-120
142-28-9	1,3-Dichloropropane	50	49.6	99	82-116
594-20-7	2,2-Dichloropropane	50	51.2	102	70-128
563-58-6	1,1-Dichloropropene	50	45.8	92	75-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9876-BS	L330007.D	1	06/01/21	BK	n/a	n/a	VL9876

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25798-1, JD25798-2, JD25798-3, JD25798-4, JD25798-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	58.7	117	84-123
10061-02-6	trans-1,3-Dichloropropene	50	55.0	110	84-124
100-41-4	Ethylbenzene	50	46.2	92	80-115
76-13-1	Freon 113	50	47.4	95	66-136
87-68-3	Hexachlorobutadiene	50	46.1	92	68-137
591-78-6	2-Hexanone	200	207	104	74-132
98-82-8	Isopropylbenzene	50	46.7	93	79-120
99-87-6	p-Isopropyltoluene	50	45.4	91	80-122
1634-04-4	Methyl Tert Butyl Ether	50	50.9	102	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	230	115	77-129
74-95-3	Methylene bromide	50	55.6	111	83-121
75-09-2	Methylene chloride	50	47.9	96	74-125
91-20-3	Naphthalene	50	49.2	98	73-138
103-65-1	n-Propylbenzene	50	44.7	89	78-117
100-42-5	Styrene	50	49.3	99	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	54.4	109	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	54.3	109	78-122
127-18-4	Tetrachloroethene	50	46.3	93	75-125
109-99-9	Tetrahydrofuran	50	50.0	100	69-129
108-88-3	Toluene	50	48.3	97	80-115
87-61-6	1,2,3-Trichlorobenzene	50	47.8	96	73-140
120-82-1	1,2,4-Trichlorobenzene	50	49.0	98	77-137
71-55-6	1,1,1-Trichloroethane	50	48.6	97	77-124
79-00-5	1,1,2-Trichloroethane	50	50.7	101	83-118
79-01-6	Trichloroethene	50	52.7	105	80-123
75-69-4	Trichlorofluoromethane	50	47.8	96	71-134
96-18-4	1,2,3-Trichloropropane	50	49.6	99	80-121
95-63-6	1,2,4-Trimethylbenzene	50	46.9	94	81-119
108-67-8	1,3,5-Trimethylbenzene	50	46.4	93	79-120
75-01-4	Vinyl chloride	50	41.7	83	56-138
	m,p-Xylene	100	93.4	93	81-118
95-47-6	o-Xylene	50	48.0	96	81-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9876-BS	L330007.D	1	06/01/21	BK	n/a	n/a	VL9876

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD25798-1, JD25798-2, JD25798-3, JD25798-4, JD25798-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	85-118%
17060-07-0	1,2-Dichloroethane-D4	113%	80-121%
2037-26-5	Toluene-D8	96%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Check Std:	VL9876-CC9847	**Injection Date:**	06/01/21
Lab File ID:	L330005.D	**Injection Time:**	10:24
Instrument ID:	GCMSL	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	153852	3.16	221797	4.38	324278	4.96	275481	7.36	111110	9.56
Upper Limit [a]	307704	3.66	443594	4.88	648556	5.46	550962	7.86	222220	10.06
Lower Limit [b]	76926	2.66	110899	3.88	162139	4.46	137741	6.86	55555	9.06

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VL9876-BS	145530	3.16	205084	4.38	273304	4.96	269025	7.36	111705	9.56
VL9876-MB	188260	3.16	248845	4.38	358520	4.96	288083	7.36	125346	9.56
ZZZZZZ	185831	3.16	231075	4.38	339460	4.96	285589	7.36	120672	9.56
ZZZZZZ	186977	3.16	238429	4.38	349847	4.96	294406	7.36	122040	9.56
JD25519-2	174903	3.15	225785	4.38	337675	4.96	274011	7.36	119634	9.56
JD25519-3	188464	3.15	232966	4.38	340652	4.96	280949	7.36	119663	9.56
ZZZZZZ	173111	3.16	229998	4.38	328630	4.96	261997	7.36	114902	9.56
ZZZZZZ	170168	3.15	216528	4.38	318273	4.96	261959	7.36	114154	9.56
ZZZZZZ	160006	3.16	231162	4.39	335021	4.96	273868	7.36	117408	9.56
JD25519-2MS	154537	3.16	200721	4.39	310772	4.96	274451	7.37	113995	9.56
JD25519-3DUP	174096	3.16	225584	4.39	330969	4.96	278998	7.37	118865	9.56
JD25798-5	183543	3.16	241175	4.39	350667	4.96	290064	7.36	122155	9.56
ZZZZZZ	177591	3.16	233024	4.39	344110	4.96	286755	7.37	118711	9.56
ZZZZZZ	171835	3.16	233581	4.39	336352	4.97	276800	7.37	116865	9.56
ZZZZZZ	173737	3.16	229143	4.39	332886	4.96	274514	7.36	117073	9.56
ZZZZZZ	168153	3.16	232815	4.39	309604	4.96	255733	7.37	114875	9.56
JD25798-1	185921	3.16	240191	4.39	354006	4.96	285763	7.37	124038	9.56
JD25798-2	172509	3.16	229535	4.39	337156	4.97	277844	7.37	116626	9.56
JD25798-3	180110	3.16	240749	4.39	347093	4.96	282213	7.37	119058	9.56
JD25798-4	185535	3.16	239564	4.39	348751	4.96	283811	7.37	120965	9.56
ZZZZZZ	152331	3.16	223494	4.39	329617	4.97	268627	7.37	107356	9.56

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD25798-1	L330026.D	105	105	104	96
JD25798-2	L330027.D	105	104	103	96
JD25798-3	L330028.D	100	103	103	96
JD25798-4	L330029.D	103	107	103	98
JD25798-5	L330020.D	102	106	103	97
VL9876-BS	L330007.D	102	113	96	98
VL9876-MB	L330009.D	100	103	104	96

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	85-118%
S2 = 1,2-Dichloroethane-D4	80-121%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33567-MB1	5P76677.D	1	05/31/21	NAP	05/31/21	OP33567	E5P3615

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD25798-1, JD25798-2, JD25798-3, JD25798-4

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	ug/l	
218-01-9	Chrysene	ND	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	62%	10-83%
4165-62-2	Phenol-d5	38%	10-82%
118-79-6	2,4,6-Tribromophenol	91%	37-139%
4165-60-0	Nitrobenzene-d5	85%	35-127%
321-60-8	2-Fluorobiphenyl	85%	35-121%
1718-51-0	Terphenyl-d14	89%	28-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33567-BS1	5P76678.D	1	05/31/21	NAP	05/31/21	OP33567	E5P3615
OP33567-BSD	5P76679.D	1	05/31/21	NAP	05/31/21	OP33567	E5P3615

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD25798-1, JD25798-2, JD25798-3, JD25798-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	50	45.3	91	45.1	90	0	45-120/25
208-96-8	Acenaphthylene	50	36.7	73	37.8	76	3	44-118/25
120-12-7	Anthracene	50	46.2	92	45.2	90	2	58-114/24
56-55-3	Benzo(a)anthracene	50	44.8	90	44.6	89	0	60-120/24
50-32-8	Benzo(a)pyrene	50	43.3	87	42.4	85	2	55-125/25
205-99-2	Benzo(b)fluoranthene	50	43.3	87	42.9	86	1	59-124/26
191-24-2	Benzo(g,h,i)perylene	50	42.1	84	40.1	80	5	55-130/27
207-08-9	Benzo(k)fluoranthene	50	42.3	85	41.5	83	2	56-125/24
218-01-9	Chrysene	50	44.1	88	43.4	87	2	57-118/24
53-70-3	Dibenzo(a,h)anthracene	50	42.2	84	41.7	83	1	56-123/26
206-44-0	Fluoranthene	50	43.5	87	43.3	87	0	60-122/24
86-73-7	Fluorene	50	41.9	84	43.0	86	3	49-128/24
193-39-5	Indeno(1,2,3-cd)pyrene	50	41.4	83	40.9	82	1	53-133/27
91-20-3	Naphthalene	50	43.1	86	42.4	85	2	43-109/28
85-01-8	Phenanthrene	50	45.0	90	44.4	89	1	58-117/23
129-00-0	Pyrene	50	47.5	95	47.4	95	0	56-122/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	71%	68%	10-83%
4165-62-2	Phenol-d5	43%	40%	10-82%
118-79-6	2,4,6-Tribromophenol	96%	93%	37-139%
4165-60-0	Nitrobenzene-d5	84%	83%	35-127%
321-60-8	2-Fluorobiphenyl	78%	79%	35-121%
1718-51-0	Terphenyl-d14	97%	94%	28-135%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Check Std: E5P3615-CC3607 **Injection Date:** 05/31/21
Lab File ID: 5P76674.D **Injection Time:** 14:46
Instrument ID: GCMS5P **Method:** SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	126224	4.41	465814	5.61	323100	7.31	615081	8.78	486344	12.21	467571	14.23
Upper Limit [a]	252448	4.91	931628	6.11	646200	7.81	1230162	9.28	972688	12.71	935142	14.73
Lower Limit [b]	63112	3.91	232907	5.11	161550	6.81	307541	8.28	243172	11.71	233786	13.73

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP33567-MB1	116059	4.41	456290	5.61	300284	7.31	556262	8.78	447631	12.21	371485	14.23
OP33567-BS1	109190	4.41	416429	5.61	282115	7.31	515501	8.78	408240	12.21	378086	14.23
OP33567-BSD	110992	4.41	415254	5.61	276253	7.31	517953	8.78	412442	12.21	382535	14.22
JD25798-3	123485	4.41	476176	5.61	325262	7.30	593159	8.78	487090	12.21	406137	14.22
ZZZZZZ	123879	4.41	471154	5.61	317386	7.30	584207	8.78	476138	12.20	407025	14.22
ZZZZZZ	118662	4.41	452390	5.61	309291	7.30	565862	8.78	465777	12.20	389791	14.22
ZZZZZZ	123188	4.41	440923	5.61	286077	7.30	538424	8.78	473368	12.20	418786	14.22
ZZZZZZ	123177	4.41	469362	5.61	309970	7.30	570913	8.78	475422	12.21	417020	14.22
ZZZZZZ	95784	4.41	401173	5.61	275307	7.30	494960	8.78	448523	12.21	401924	14.23
JD25798-1	121885	4.41	482623	5.61	320614	7.30	592419	8.78	484670	12.20	419286	14.22
JD25798-2	115900	4.41	456074	5.61	311494	7.30	568266	8.78	474425	12.20	414059	14.22
JD25798-4	112635	4.41	441519	5.61	303969	7.30	564041	8.78	470279	12.20	398017	14.22
ZZZZZZ	112816	4.41	425904	5.61	301081	7.30	529270	8.78	449464	12.20	423882	14.22
ZZZZZZ	103581	4.41	374998	5.61	243872	7.31	449290	8.78	459563	12.21	425415	14.23
ZZZZZZ	117158	4.41	438239	5.61	285396	7.30	508606	8.78	413821	12.21	381951	14.23
ZZZZZZ	112949	4.41	450035	5.61	291258	7.31	520646	8.78	440499	12.21	378906	14.23
ZZZZZZ	116282	4.41	453705	5.61	300970	7.31	556999	8.78	446626	12.21	387685	14.23
ZZZZZZ	114241	4.41	411495	5.61	283637	7.31	557391	8.78	467495	12.21	391756	14.23
ZZZZZZ	111434	4.41	377669	5.61	234509	7.31	436241	8.79	419352	12.21	378546	14.23
ZZZZZZ	109364	4.42	378863	5.61	253145	7.31	516466	8.78	437060	12.21	394313	14.23
JD25616-1	128396	4.41	487659	5.61	325167	7.31	595544	8.78	415344	12.21	366747	14.23
OP33534-MS	105572	4.42	400318	5.61	269236	7.31	489127	8.78	381251	12.21	366834	14.24
OP33534-MSD	113959	4.42	408378	5.61	273721	7.31	484479	8.78	375423	12.22	364455	14.24

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8270E **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD25798-1	5P76686.D	45	28	83	69	72	76
JD25798-2	5P76687.D	45	29	88	69	73	80
JD25798-3	5P76680.D	40	26	83	64	65	72
JD25798-4	5P76688.D	46	30	85	71	70	78
OP33567-BS1	5P76678.D	71	43	96	84	78	97
OP33567-BSD	5P76679.D	68	40	93	83	79	94
OP33567-MB1	5P76677.D	62	38	91	85	85	89

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-83%
S2 = Phenol-d5	10-82%
S3 = 2,4,6-Tribromophenol	37-139%
S4 = Nitrobenzene-d5	35-127%
S5 = 2-Fluorobiphenyl	35-121%
S6 = Terphenyl-d14	28-135%

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33543-MB1	8Z39461.D	1	06/01/21	TL	05/31/21	OP33543	G8Z1692

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD25798-1, JD25798-2, JD25798-3, JD25798-4

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	86%	31-122%

Method Blank Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33571-MB1	3G131890.D	1	06/01/21	TL	06/01/21	OP33571	G3G4785

The QC reported here applies to the following samples: **Method:** SW846 8151A

JD25798-1, JD25798-3

CAS No.	Compound	Result	RL	Units	Q
94-75-7	2,4-D	ND	0.40	ug/l	
93-72-1	2,4,5-TP (Silvex)	ND	0.080	ug/l	
93-76-5	2,4,5-T	ND	0.080	ug/l	
75-99-0	Dalapon	ND	0.080	ug/l	
1918-00-9	Dicamba	ND	0.080	ug/l	

CAS No.	Surrogate Recoveries		Limits
19719-28-9	2,4-DCAA	71%	10-184%
19719-28-9	2,4-DCAA	47%	10-184%

Method Blank Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33569-MB1	8G38045.D	1	06/02/21	CP	05/31/21	OP33569	G8G1594

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25798-1, JD25798-2, JD25798-3, JD25798-4

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0067	ug/l	
15972-60-8	Alachlor	ND	0.067	ug/l	
319-84-6	alpha-BHC	ND	0.0067	ug/l	
319-85-7	beta-BHC	ND	0.0067	ug/l	
319-86-8	delta-BHC	ND	0.0067	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	ug/l	
12789-03-6	Chlordane	ND	0.33	ug/l	
60-57-1	Dieldrin	ND	0.0067	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	ug/l	
72-55-9	4,4'-DDE	ND	0.0067	ug/l	
50-29-3	4,4'-DDT	ND	0.0067	ug/l	
72-20-8	Endrin	ND	0.0067	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	ug/l	
76-44-8	Heptachlor	ND	0.0067	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0067	ug/l	
72-43-5	Methoxychlor	ND	0.013	ug/l	
8001-35-2	Toxaphene	ND	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	94%	10-165%
877-09-8	Tetrachloro-m-xylene	102%	10-165%
2051-24-3	Decachlorobiphenyl	97%	28-161%
2051-24-3	Decachlorobiphenyl	99%	28-161%

Method Blank Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33570-MB1	XX2466065.D	1	06/02/21	TL	05/31/21	OP33570	GXX7455

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD25798-3, JD25798-4

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.33	ug/l	
11104-28-2	Aroclor 1221	ND	0.33	ug/l	
11141-16-5	Aroclor 1232	ND	0.33	ug/l	
53469-21-9	Aroclor 1242	ND	0.33	ug/l	
12672-29-6	Aroclor 1248	ND	0.33	ug/l	
11097-69-1	Aroclor 1254	ND	0.33	ug/l	
11096-82-5	Aroclor 1260	ND	0.33	ug/l	
11100-14-4	Aroclor 1268	ND	0.33	ug/l	
37324-23-5	Aroclor 1262	ND	0.33	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	103%	10-155%
877-09-8	Tetrachloro-m-xylene	109%	10-155%
2051-24-3	Decachlorobiphenyl	85%	10-151%
2051-24-3	Decachlorobiphenyl	89%	10-151%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33543-BS1	8Z39462.D	1	06/01/21	TL	05/31/21	OP33543	G8Z1692
OP33543-BSD	8Z39463.D	1	06/01/21	TL	05/31/21	OP33543	G8Z1692

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD25798-1, JD25798-2, JD25798-3, JD25798-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	0.8	0.784	98	0.780	98	1	32-122/51

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	93%	90%	31-122%

8.2.1
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* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33571-BS1	3G131891.D	1	06/01/21	TL	06/01/21	OP33571	G3G4785
OP33571-BSD	3G131892.D	1	06/01/21	TL	06/01/21	OP33571	G3G4785

The QC reported here applies to the following samples: **Method:** SW846 8151A

JD25798-1, JD25798-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
94-75-7	2,4-D	1.6	0.99	62	1.3	81	27	10-200/34
93-72-1	2,4,5-TP (Silvex)	0.32	0.15	47	0.21	66	33	32-159/33
93-76-5	2,4,5-T	0.32	0.19	59	0.22	69	15	26-156/36
75-99-0	Dalapon	0.32	0.33	103	0.30	94	18	10-200/37
1918-00-9	Dicamba	0.32	0.22	69	0.34	106	43* [a]	18-165/37

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
19719-28-9	2,4-DCAA	76%	84%	10-184%
19719-28-9	2,4-DCAA	49%	59%	10-184%

(a) Analytical precision exceeds in-house control limits.

8.2.2
8

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33569-BS1	8G38046.D	1	06/02/21	CP	05/31/21	OP33569	G8G1594
OP33569-BSD	8G38047.D	1	06/02/21	CP	05/31/21	OP33569	G8G1594

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD25798-1, JD25798-2, JD25798-3, JD25798-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	0.167	0.18	108	0.18	108	0	10-180/75
15972-60-8	Alachlor	0.167	0.17	102	0.26	156 [a]	60	15-170/74
319-84-6	alpha-BHC	0.167	0.18	108	0.17	102	6	11-182/79
319-85-7	beta-BHC	0.167	0.18	108	0.20	120	16	14-178/70
319-86-8	delta-BHC	0.167	0.16	96	0.16	96	21 [b]	10-171/72
58-89-9	gamma-BHC (Lindane)	0.167	0.18	108	0.17	102	6	13-181/71
60-57-1	Dieldrin	0.167	0.19	114	0.17	102	11	14-179/69
72-54-8	4,4'-DDD	0.167	0.18	108	0.17	102	6	11-173/73
72-55-9	4,4'-DDE	0.167	0.18	108	0.17	102	6	10-170/81
50-29-3	4,4'-DDT	0.167	0.17	102	0.16	96	6	15-168/80
72-20-8	Endrin	0.167	0.19	114	0.21	126	10	10-193/86
1031-07-8	Endosulfan sulfate	0.167	0.18	108	0.17	102	6	12-165/78
7421-93-4	Endrin aldehyde	0.167	0.19	114	0.18	108	5	18-158/83
53494-70-5	Endrin ketone	0.167	0.22	132	0.20	120	10	13-175/88
959-98-8	Endosulfan-I	0.167	0.19	114	0.17	102 [c]	11 [c]	16-175/80
33213-65-9	Endosulfan-II	0.167	0.20	120	0.18	108	11	10-176/80
76-44-8	Heptachlor	0.167	0.18	108	0.21	126	15	14-172/71
1024-57-3	Heptachlor epoxide	0.167	0.19	114	0.22	132	15	13-178/69
72-43-5	Methoxychlor	0.167	0.18	108	0.15	90	18	10-171/89

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	98%	95%	10-165%
877-09-8	Tetrachloro-m-xylene	102%	101%	10-165%
2051-24-3	Decachlorobiphenyl	103%	92%	28-161%
2051-24-3	Decachlorobiphenyl	100%	84%	28-161%

(a) Outside program requirements bias high and no associated positive found in the QC batch.
(b) Outside program requirements.
(c) Reported from 2nd signal due to interference. 1st signal used for confirmation.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33570-BS1	XX2466066.D	1	06/02/21	TL	05/31/21	OP33570	GXX7455
OP33570-BSD	XX2466067.D	1	06/02/21	TL	05/31/21	OP33570	GXX7455

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD25798-3, JD25798-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	1.33	1.6	120	1.3	97	21 [a]	29-158/53
11104-28-2	Aroclor 1221		ND		ND		nc	50-150/30
11141-16-5	Aroclor 1232		ND		ND		nc	50-150/30
53469-21-9	Aroclor 1242		ND		ND		nc	50-150/30
12672-29-6	Aroclor 1248		ND		ND		nc	50-150/30
11097-69-1	Aroclor 1254		ND		ND		nc	50-150/30
11096-82-5	Aroclor 1260	1.33	1.6	120	1.4	105	13	27-162/56
11100-14-4	Aroclor 1268		ND		ND		nc	50-150/30
37324-23-5	Aroclor 1262		ND		ND		nc	50-150/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	100%	87%	10-155%
877-09-8	Tetrachloro-m-xylene	108%	94%	10-155%
2051-24-3	Decachlorobiphenyl	86%	74%	10-151%
2051-24-3	Decachlorobiphenyl	94%	78%	10-151%

(a) Outside program requirements.

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Check Std:	G8G1594-CC1478	**Injection Date:**	06/02/21
Lab File ID:	8G38039.D	**Injection Time:**	01:19
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	873025309	2.37	207711067	1.91
Upper Limit [a]	1746050618	2.87	415422134	2.41
Lower Limit [b]	436512655	1.87	103855534	1.41

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP33552-MB1	706530084	2.36	172345862	1.89
OP33552-BS1	725241874	2.36	176311739	1.89
OP33552-BSD	685647435	2.36	172137749	1.89
ZZZZZZ	725639301	2.37	172494709	1.90
OP33569-MB1	638434878	2.37	165834588	1.90
OP33569-BS1	662203488	2.37	167268371	1.90
OP33569-BSD	673642101	2.37	165835100	1.90
JD25798-1	707040184	2.37	170525833	1.90
JD25798-2	710431952	2.36	167711355	1.89
JD25798-3	735123516	2.37	177049197	1.89
JD25798-4	659320580	2.36	157018904	1.90
ZZZZZZ	602118956	2.37	144524257	1.90

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

8.3.1
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DDT/Endrin Breakdown Check

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G8G1478-DDT	**Injection Date:**	02/10/21
Lab File ID:	8G35810.D	**Injection Time:**	21:20
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	4646452	16613996
4,4'-DDE	3624468	16515408
4,4'-DDT	301383294	1335582732
DDT Breakdown [a]	2.7 %	2.4 %
Endrin aldehyde	0	0
Endrin ketone	1547092	5671697
Endrin	159411387	796924784
Endrin Breakdown [b]	1 %	0.7 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1478-IC1478	8G35813.D	02/10/21	23:40	02:20	Initial cal 1
G8G1478-IC1478	8G35814.D	02/10/21	23:58	02:38	Initial cal 2
G8G1478-IC1478	8G35815.D	02/11/21	00:14	02:54	Initial cal 5
G8G1478-IC1478	8G35816.D	02/11/21	00:30	03:10	Initial cal 10
G8G1478-ICC1478	8G35817.D	02/11/21	00:47	03:27	Initial cal 25
G8G1478-IC1478	8G35818.D	02/11/21	01:03	03:43	Initial cal 50
G8G1478-IC1478	8G35819.D	02/11/21	01:19	03:59	Initial cal 75
G8G1478-IC1478	8G35820.D	02/11/21	01:36	04:16	Initial cal 100
G8G1478-IC1478	8G35821.D	02/11/21	01:52	04:32	Initial cal 500
G8G1478-IC1478	8G35822.D	02/11/21	02:08	04:48	Initial cal 500
G8G1478-ICV1478	8G35823.D	02/11/21	02:26	05:06	Initial cal verification 25
G8G1478-ICV1478	8G35824.D	02/11/21	02:43	05:23	Initial cal verification 500
G8G1478-ICV1478	8G35825.D	02/11/21	02:59	05:39	Initial cal verification 500
G8G1478-ICV1478	8G35826.D	02/11/21	03:15	05:55	Initial cal verification 50
G8G1479-CC1478	8G35827.D	02/11/21	03:31	06:11	Continuing cal 25
G8G1479-CC1478	8G35828.D	02/11/21	03:48	06:28	Continuing cal 500
G8G1479-CC1478	8G35829.D	02/11/21	04:04	06:44	Continuing cal 500
OP31544-MB1	8G35831.D	02/11/21	04:37	07:17	Method Blank
OP31544-BS1	8G35832.D	02/11/21	04:55	07:35	Blank Spike
OP31544-BSD	8G35833.D	02/11/21	05:11	07:51	Blank Spike Duplicate
JD18877-26	8G35834.D	02/11/21	05:28	08:08	(used for QC only; not part of job JD25798)
OP31544-MS	8G35835.D	02/11/21	05:44	08:24	Matrix Spike
OP31544-MSD	8G35836.D	02/11/21	06:00	08:40	Matrix Spike Duplicate
ZZZZZZ	8G35837.D	02/11/21	06:17	08:57	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G8G1478-DDT	**Injection Date:**	02/10/21
Lab File ID:	8G35810.D	**Injection Time:**	21:20
Instrument ID:	GC8G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1479-CC1478	8G35840.D	02/11/21	07:05	09:45	Continuing cal 50

DDT/Endrin Breakdown Check

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Sample:	G8G1594-DDT	**Injection Date:**	06/01/21
Lab File ID:	8G38031.D	**Injection Time:**	22:00
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	1930564	14399661
4,4'-DDE	7228498	9326550
4,4'-DDT	350551851	1269992700
DDT Breakdown [a]	2.5 %	1.8 %
Endrin aldehyde	0	0
Endrin ketone	1915548	43950101
Endrin	194938646	785727170
Endrin Breakdown [b]	1 %	5.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1594-CC1478	8G38032.D	06/01/21	22:16	00:16	Continuing cal 25
ZZZZZZ	8G38035.D	06/01/21	23:32	01:32	(unrelated sample)
ZZZZZZ	8G38037.D	06/02/21	00:08	02:08	(unrelated sample)
G8G1594-CC1478	8G38039.D	06/02/21	01:19	03:19	Continuing cal 50
OP33552-MB1	8G38041.D	06/02/21	01:52	03:52	Method Blank
OP33552-BS1	8G38042.D	06/02/21	02:08	04:08	Blank Spike
OP33552-BSD	8G38043.D	06/02/21	02:25	04:25	Blank Spike Duplicate
ZZZZZZ	8G38044.D	06/02/21	02:41	04:41	(unrelated sample)
OP33569-MB1	8G38045.D	06/02/21	03:17	05:17	Method Blank
OP33569-BS1	8G38046.D	06/02/21	03:34	05:34	Blank Spike
OP33569-BSD	8G38047.D	06/02/21	03:50	05:50	Blank Spike Duplicate
JD25798-1	8G38048.D	06/02/21	04:06	06:06	L1985-6MW
JD25798-2	8G38049.D	06/02/21	04:23	06:23	L1985-5MW
JD25798-3	8G38050.D	06/02/21	04:39	06:39	L1985-10MW
JD25798-4	8G38051.D	06/02/21	05:02	07:02	L1985-3MW
ZZZZZZ	8G38052.D	06/02/21	05:19	07:19	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8151A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
JD25798-1	3G131894.D	76	45
JD25798-3	3G131895.D	72	45
OP33571-BS1	3G131891.D	76	49
OP33571-BSD	3G131892.D	84	59
OP33571-MB1	3G131890.D	71	47

Surrogate Compounds	Recovery Limits
S1 = 2,4-DCAA	10-184%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

8.5.1
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Surrogate Recovery Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8081B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD25798-1	8G38048.D	120	100	80	77
JD25798-2	8G38049.D	94	91	80	76
JD25798-3	8G38050.D	92	89	69	65
JD25798-4	8G38051.D	103	106	67	63
OP33569-BS1	8G38046.D	98	102	103	100
OP33569-BSD	8G38047.D	95	101	92	84
OP33569-MB1	8G38045.D	94	102	97	99

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-165%
S2 = Decachlorobiphenyl	28-161%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

8.5.2
8

Surrogate Recovery Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: SW846 8082A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD25798-3	XX2466070.D	91	95	62	67
JD25798-4	XX2466071.D	88	95	51	54
OP33570-BS1	XX2466066.D	100	108	86	94
OP33570-BSD	XX2466067.D	87	94	74	78
OP33570-MB1	XX2466065.D	103	109	85	89

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-155%
S2 = Decachlorobiphenyl	10-151%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

8.5.3
8

Surrogate Recovery Summary

Job Number: JD25798
Account: STANCTH Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

Method: CT-ETPH **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
JD25798-1	8Z39468.D	69
JD25798-2	8Z39469.D	84
JD25798-3	8Z39470.D	87
JD25798-4	8Z39471.D	77
OP33543-BS1	8Z39462.D	93
OP33543-BSD	8Z39463.D	90
OP33543-MB1	8Z39461.D	86

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	31-122%

(a) Recovery from GC signal #1

8.5.4
8

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25798
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26761
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/01/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	17	46		
Antimony	6.0	1.7	4.7		
Arsenic	3.0	2.1	2.8	0.90	<3.0
Barium	200	.8	13	-1.2	<200
Beryllium	1.0	.3	.5		
Bismuth	20	2.3	4		
Boron	100	2.3	63		
Cadmium	3.0	.3	1	-0.50	<3.0
Calcium	5000	6.6	99		
Cerium	100				
Chromium	10	.3	2	0.20	<10
Cobalt	50	.4	2.6		
Copper	10	.8	5.9	0.30	<10
Iron	100	5.3	32		
Lead	3.0	1.1	1.8	-1.1	<3.0
Lithium	50	4.8	7.3		
Magnesium	5000	32	140		
Manganese	15	.1	1.4		
Molybdenum	20	.6	3.6		
Nickel	10	.4	1.7	-0.10	<10
Phosphorus	50	1.2	18		
Potassium	10000	77	200		
Selenium	10	3.2	4.9	-1.6	<10
Silicon	200	1.7	100		
Silver	10	1	1.9	0.30	<10
Sodium	10000	34	570		
Strontium	10	.3	1		
Sulfur	50	3	45		
Thallium	10	1.8	1.8		
Tin	10	.8	3.7		
Titanium	10	.5	2.5		
Tungsten	50	2.6	40		
Vanadium	50	.6	1.8		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25798
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26761
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/01/21

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.1	6.9	1.0	<20
Zirconium	10	.3	4.1		

Associated samples MP26761: JD25798-1, JD25798-2, JD25798-3, JD25798-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.1.1
9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25798
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26761
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/01/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	1990	2000	99.5	80-120
Barium	1910	2000	95.5	80-120
Beryllium	anr			
Bismuth				
Boron				
Cadmium	1900	2000	95.0	80-120
Calcium	anr			
Cerium				
Chromium	1880	2000	94.0	80-120
Cobalt	anr			
Copper	1900	2000	95.0	80-120
Iron	anr			
Lead	1930	2000	96.5	80-120
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	1950	2000	97.5	80-120
Phosphorus				
Potassium	anr			
Selenium	1920	2000	96.0	80-120
Silicon				
Silver	223	250	89.2	80-120
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25798
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26761
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/01/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc	1910	2000	95.5	80-120
Zirconium				

Associated samples MP26761: JD25798-1, JD25798-2, JD25798-3, JD25798-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.1.2

9

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD25798
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26761
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/01/21

Metal	JD25622-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	0.00	0.00	NC	0-10
Beryllium	anr			
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Cerium				
Chromium	0.400	78.5	19525.0a	0-10
Cobalt	anr			
Copper	1.20	5.70	375.0(a)	0-10
Iron	anr			
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	0.00	36.4	NC	0-10
Phosphorus				
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			

9.1.3
9

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD25798
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26761
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/01/21

Metal	JD25622-1 Original	SDL 1:5	%DIF	QC Limits
Zinc	1.30	432	33153.8a	0-10
Zirconium				

Associated samples MP26761: JD25798-1, JD25798-2, JD25798-3, JD25798-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

9.1.3
9

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD25798
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26788
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/01/21

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.034	.095	-0.033	<0.20

Associated samples MP26788: JD25798-1, JD25798-2, JD25798-3, JD25798-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.2.1
9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD25798
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26788
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/01/21

Metal	JD25798-1 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	1.9	2	95.0	75-125

Associated samples MP26788: JD25798-1, JD25798-2, JD25798-3, JD25798-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

9.2.2
9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD25798
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26788
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/01/21

Metal	JD25798-1 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.1	2	105.0	10.0	20

Associated samples MP26788: JD25798-1, JD25798-2, JD25798-3, JD25798-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

9.2.2

9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD25798
Account: STANCTH - Stantec
Project: Eversource, Blue Hills Avenue Ext, Windsor, CT

QC Batch ID: MP26788
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/01/21

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	2.0	2	100.0	80-120

Associated samples MP26788: JD25798-1, JD25798-2, JD25798-3, JD25798-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.2.3

9

Stantec

Stantec Consulting Services Inc.
100 Pearl Street, 10th FL
Hartford CT 06103

June 6, 2022

Project/File: 195602175

Ms. Claire Quinn
CT Department of Energy and Environmental Protection
Remediation Division
79 Elm Street
Hartford, CT 06106-5127

Dear Ms. Claire Quinn,

Reference: 2022 Well Receptor Survey, 1985 Blue Hills Avenue Extension, Windsor, CT (REM ID#14862)

Stantec Consulting Services Inc. (Stantec) was retained to conduct a well receptor survey in the vicinity of the aforementioned Site. A Site Location Map (Figure 1), Site Plan (Figure 2), Groundwater Elevation Map (Figure 3), and a Well Receptor Survey Map (Figure 4) are attached to this report. The objective of the survey was to determine if any potential receptors, including drinking water supply wells, public or private, are located within a 500-foot (ft.) radius of the Site, as prescribed in the Connecticut Department of Energy and Environmental Protection (CTDEEP) *Water Supply Well Receptor Survey Guidance Document* (September 2009, revised in January 2015).

The well receptor survey consisted of the following tasks:

- Contacting the Windsor Health Department for information regarding the presence or absence of public and private wells within the survey area
- Reviewing water well completion reports for the Town of Windsor and Town of Bloomfield
- Research at the Town of Windsor municipal offices. In the case of this study, research was also conducted online utilizing the Town of Windsor and Town of Bloomfield's Assessor's Office website which includes assessor maps and property cards accessed via the Geographic Information System (GIS) mapping utility
- Review of available published maps and reports

SITE DESCRIPTION AND USE

The Property located at 1985 Blue Hills Ave Extension, Windsor, CT (the "Site") consists of approximately 19.42 acres of land developed with a single story 165,000 square foot masonry / slab on grade constructed building used by Eversource as office space and a call/data center (Figure 2). The building is surrounded by asphalt parking lots and landscaped areas.

Historically, the Site was used for agricultural land (tobacco fields) and residential dwellings. The Property was then developed with the current Site building in 2001 and was occupied by JDS Uniphase (JDS), a fiber optic component manufacturer until 2004. JDS was a small quantity generator (SQG) of hazardous waste (greater than 100 kilograms [kg] and less than 1,000 kg per month). Manifested hazardous wastes included ignitable waste, corrosive acids, corrosive bases, and spent solvents.

The Site and surrounding area are zoned as "I" for industrial use. Zoning also consists of I (industrial) and B-2 (business) in the Town of Windsor and R-40 Residential in the Town of Bloomfield. The surrounding land uses are summarized below.

Reference: **2022 Well Receptor Survey, 1985 Blue Hills Avenue Extension, Windsor, CT (REM ID#14862)**

- North: Blue Hills Avenue Extension (State Route 187) is a 4-lane divided road bordering the Site to the north. Community Health Resources and CIGNA office buildings are present across the road.
- South: Day Hill Road borders the Site to the south, which is also the municipal boundary between the Towns of Windsor and Bloomfield. A parcel of land across the road is used as an agricultural field and developed with an industrial building occupied by CTEC Solar, LLC (solar supplier) and Lesro Industries (furniture manufacturer).
- East: An undeveloped parcel of land adjoins the Site to the east (1975 Blue Hills Avenue Extension), which includes a grassed area contiguous with landscaping from the subject Property, a wooded area, and a cleared area. This parcel was historically used for agriculture.
- West: An undeveloped parcel of land adjoins the Site to the west (1995 Blue Hills Avenue Extension), that was formerly used for agricultural. (i.e., tobacco cultivation).

The Site is located within a GA groundwater classification area, indicating that groundwater is presumed suitable for use as a potable water supply without treatment. The observed depth to groundwater in soil borings and monitoring wells ranged from approximately 10 to 15 feet below ground surface (bgs). The interpreted groundwater flow direction is toward the southeast (Figure 3).

As presented in Stantec's Phase II Environmental Site Assessment, dated July 28, 2021, extractable total petroleum hydrocarbons (ETPH) were detected in groundwater above the Surface Water Protection Criteria (SWPC); however, concentrations were not above criteria in the downgradient most well (L1985-3MW).

Pursuant to Connecticut General Statutes Section 22a-134 and based on the findings of the Phase I Environmental Site Assessment, dated July 13, 2021 and the Phase II Environmental Site Assessment, dated July 28, 2021, a Property Transfer Form III and Environmental Condition Assessment Form (ECAF) were filed with the CTDEEP, at the time of purchase by The Rocky River Realty Company on December 9, 2021. CTDEEP acknowledged receipt of the Form III and ECAF on March 21, 2022 and delegated investigation and remediation oversight to a Licensed Environmental Professional (LEP).

SUPPLY WELL RECEPTOR SURVEY

Stantec conducted a Well Receptor Survey for the Site located at 1985 Blue Hills Ave Extension, Windsor, CT. The survey evaluated for the presence of potential potable wells with a 500-foot radius of the Site.

STUDY AREA MAP

Stantec created the attached Well Receptor Survey Map (Figure 4) using available Town of Windsor and Town of Bloomfield GIS data to identify physical addresses, parcel identification numbers, and zoning classifications for each property within the Study Area. The Study Area consists of 14 properties. Zoning consists of I (industrial) and B-2 (business) in the Town of Windsor and R-40 Residential in the Town of Bloomfield. Stantec reviewed available online Assessor information provided on the State of Connecticut's GIS mapping application. Utility information is not listed on the Town's online property record cards. CTDEEP GIS data was used to map community water resources. The following data sources for Connecticut water resources were reviewed:

Data Layer	Source	Date of publication
Connecticut Aquifer Protection Areas	CTDEEP GIS	December 23, 2021
Connecticut Drinking Water Watersheds	CTDEEP GIS	December 9, 2019

Reference: **2022 Well Receptor Survey, 1985 Blue Hills Avenue Extension, Windsor, CT (REM ID#14862)**

Data Layer	Source	Date of publication
Connecticut Public Water Supply Service Areas	CTDEEP GIS	March 5, 2019
Connecticut Water Quality Classifications	CTDEEP	October 2018
Connecticut SEH Sites	CTDEEP	January 3, 2022
Connecticut Community and Non-Community Well Locations	State of Connecticut, Department of Health, Public Water Systems List	March, 2022
Connecticut Parcels	CTDEEP GIS	October 29, 2019

According to the above listed data sources, the Study Area is not identified as having any public water supply wells and is not located within a water supply watershed or an aquifer protection area. The Study Area is mapped within a known water distribution services area in which municipal water service is available. Both the Study Area for Windsor and Bloomfield are served by the Metropolitan District Commission (MDC) public water supply service mains.

Refer to the attached Study Area Map for the location of the properties within the Study Area. A summary of the findings is presented on Table 1.

METROPOLITAN DISTRICT COMMISSION REVIEW

MDC reported that all properties with the Study Area are connect to the MDC service mains. However, it should be noted that 1975 Blue Hills Avenue Extension and 1995 Blue Hills Avenue Extension are vacant lots.

Address	MBL	Distance (ft)	Direction	Use	Municipal Service Connection
1985 BLUE HILLS AVE EXT	6-145-5	SITE	NA	Commercial	Yes
1975 BLUE HILLS AVE EXT	6-145-1975	0	East	Vacant	Available
1995 BLUE HILLS AVE EXT	6-145-1995	0	West	Vacant	Available
1 WATERSIDE CROSSING	6-142-6	200	North	Commercial	Yes
2630 DAY HILL RD	6-145-2	300	West	Commercial	Yes
2617 DAY HILL RD	6-144-1	50	South	Commercial	Yes
2610 DRY HILL ROAD	6-145-2610	50	West	Commercial	Yes
2 WATERSIDE CROSSING	6-142-6	100	North	Commercial	Yes
1936 BLUE HILLS AVE EXT.	6-142-6	100	Northeast	Commercial	Yes
2619 DAY HILL RD	6-144-1	200	Southwest	Vacant	Available
6 GRIFFIN RD NORTH	6-142-6	450	Northeast	Commercial	Yes
8 GRIFFIN RD NORTH	6-142-6	450	Northeast	Commercial	Yes
1 GRIFFIN RD SOUTH*	10-94	100	South	Industrial	Yes
ADAMS RD*	7-11	100	West	Vacant Residential	Yes

*Properties are in the Town of Bloomfield.

Reference: **2022 Well Receptor Survey, 1985 Blue Hills Avenue Extension, Windsor, CT (REM ID#14862)**

DEPARTMENT OF CONSUMER PROTECTION

Well completion reports for the Towns of Windsor (1970-2021) and Bloomfield (1970-2022) were researched from the records provided by the Department of Consumer Protection. Records were not available for 1979, 1985, 1988 and 2000 for the Town of Windsor and 1993 and 1995 for the Town of Bloomfield. No well completion reports were identified for the Study Area.

STUDY AREA RECONNAISSANCE

A reconnaissance was not conducted, as all properties within the 500-foot Study Area radius were reported to be serviced by the MDC municipal water supply.

HEALTH DEPARTMENT RECORDS

The Windsor Health Department confirmed the properties within the Study Area are connected to the municipal water supply and did not possess records of the presence of water supply wells in the 500-ft. radius.

The Bloomfield Health Department confirmed that abutting properties in Bloomfield were all connected to the municipal water supply. On-line records indicate the only nearby property on private water and septic is located cross gradient and beyond the 500-foot radius.

OTHER POTENTIAL RECEPTORS

According to the Phase I ESA, dated July 13, 2021, no wetlands are mapped at the Site or within the Study Area. Furthermore, no schools, hospitals, or daycare centers were identified within the search radius.

FINDINGS AND CONCLUSIONS

In summary, Stantec did not identify any water supply wells or sensitive receptors within the Study Area. One vacant property on Adams Road is zoned residential but appears to be vacant. The developed properties within the Study Area are currently serviced via the MDC public water distribution system.

The lack of detected contaminants in the downgradient on-site monitoring well indicates that the potential for migration of Site related contamination to off-site receptors is extremely low. Furthermore, due to the lack of supply wells found within the Study Area, inferred direction of groundwater flow, and land uses, the risk of a release from the Site to impact a public or private drinking water supply well was not identified.

No further investigations with respect to water supply wells are warranted.

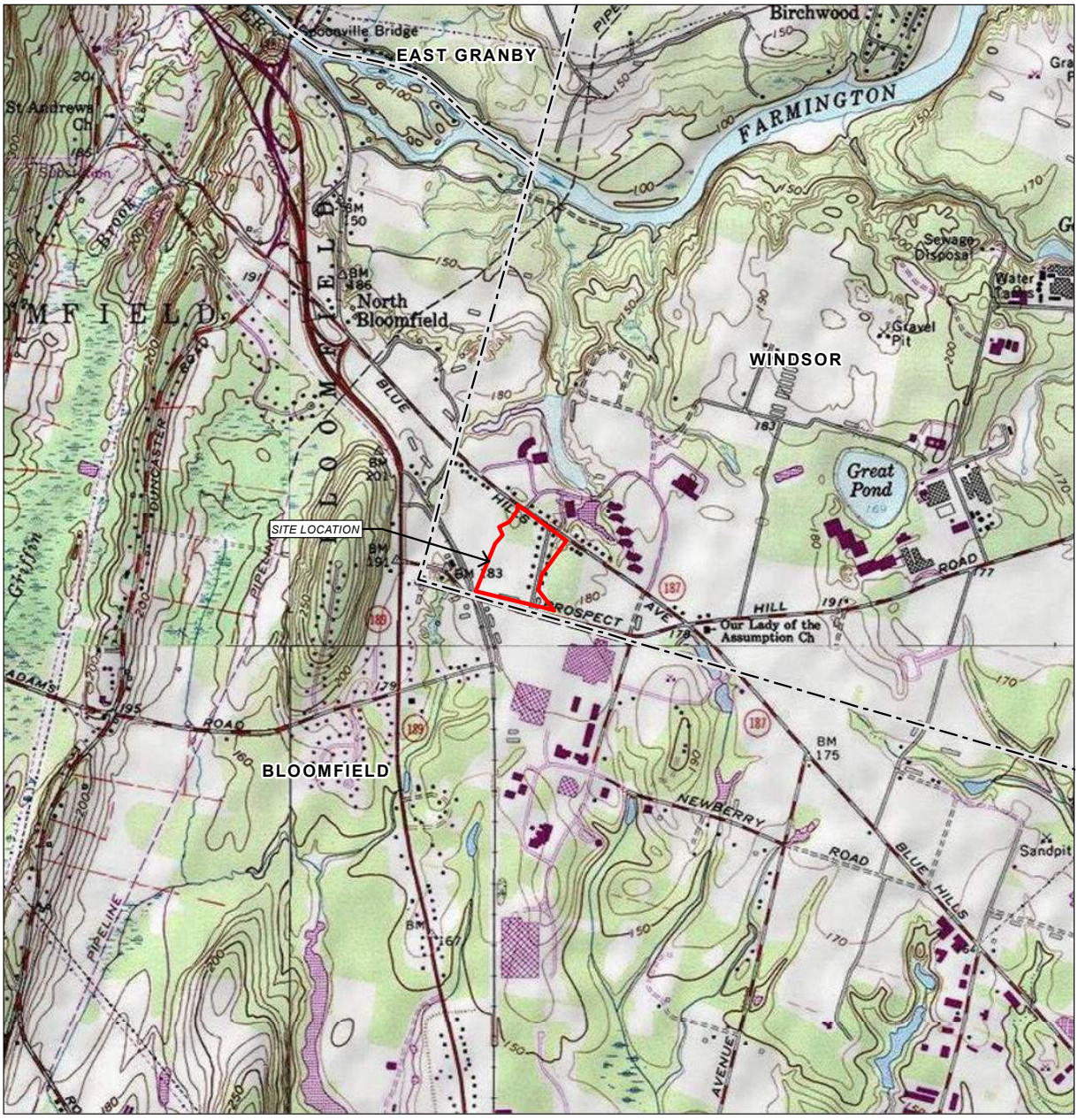
Respectfully,

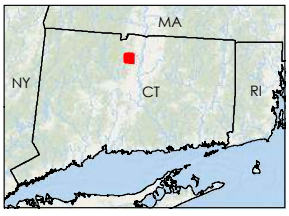
STANTEC CONSULTING SERVICES INC.

Charles Young LSP
Associate, Senior Environmental Project Manager
Phone: (508) 591-4326 Mobile: 508-326-9918
charles.young@stantec.com

Zoe A Belcher LG, LEP
BGTEnvironmental, Managing Member
Phone: (860) 883-9480
Belcher@bgtenvironmental.com

FIGURES





Legend
Approximate Site Location

0 2,000 Feet
(At original document size of 8.5x11)
1:24,000

N

Stantec

Notes
1. Coordinate System: NAD 1983 StatePlane Connecticut FIPS 0600 Feet
2. Background: USGS Topographic Map provided by ESRI Web Mapping Service: Hartford North, Avon, Tariffville, Windsor Locks Quadrangles

Project Location
Windsor, Connecticut

Prepared by PWB on 2021-06-07
TR Review by KWH on 2021-06-07
IR Review by EB on 2021-06-07

Client/Project 195602175
Eversource Energy Service Company
1985 Blue Hills Ave. Ext., Windsor, CT

Figure No.
1

Title
Site Location Map

V:\1956\active\195602175\03_data\gis_cad\gis\MXDs\2175_01_1985_SiteLocation.mxd Revised: 2021-06-07 By: pbarbera

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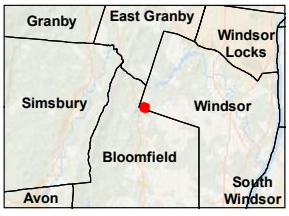

Legend
- Soil Boring
- Surface Hand Sample
- "No Dumping" Sign
- Historical Roadway
- Historical Barn
- Tax Parcel

0 150 Feet
(At original document size of 8.5x11)
1:1,800

N

Notes
1. Coordinate System: NAD 1983 StatePlane Connecticut FIPS 0600 Feet
2. Data Sources: CT DEEP
3. Background: Aerial Orthoimagery provided by CTECO, 2019

Stantec

Project Location
Windsor, Connecticut

Prepared by PWB on 2021-07-16
TR Review by KWH on 2021-07-16
IR Review by EB on 2021-07-16

Client/Project 195602175
Eversource Energy Service Company
1985 Blue Hills Ave. Ext., Windsor, CT

Figure No.
2

Title
Site Plan

V:\1956\active\195602175\03_data\gis_cad\gis\MXDs\2175_02_1985_Phase2_SitePlan.mxd Revised: 2021-07-16 By: pbarbera

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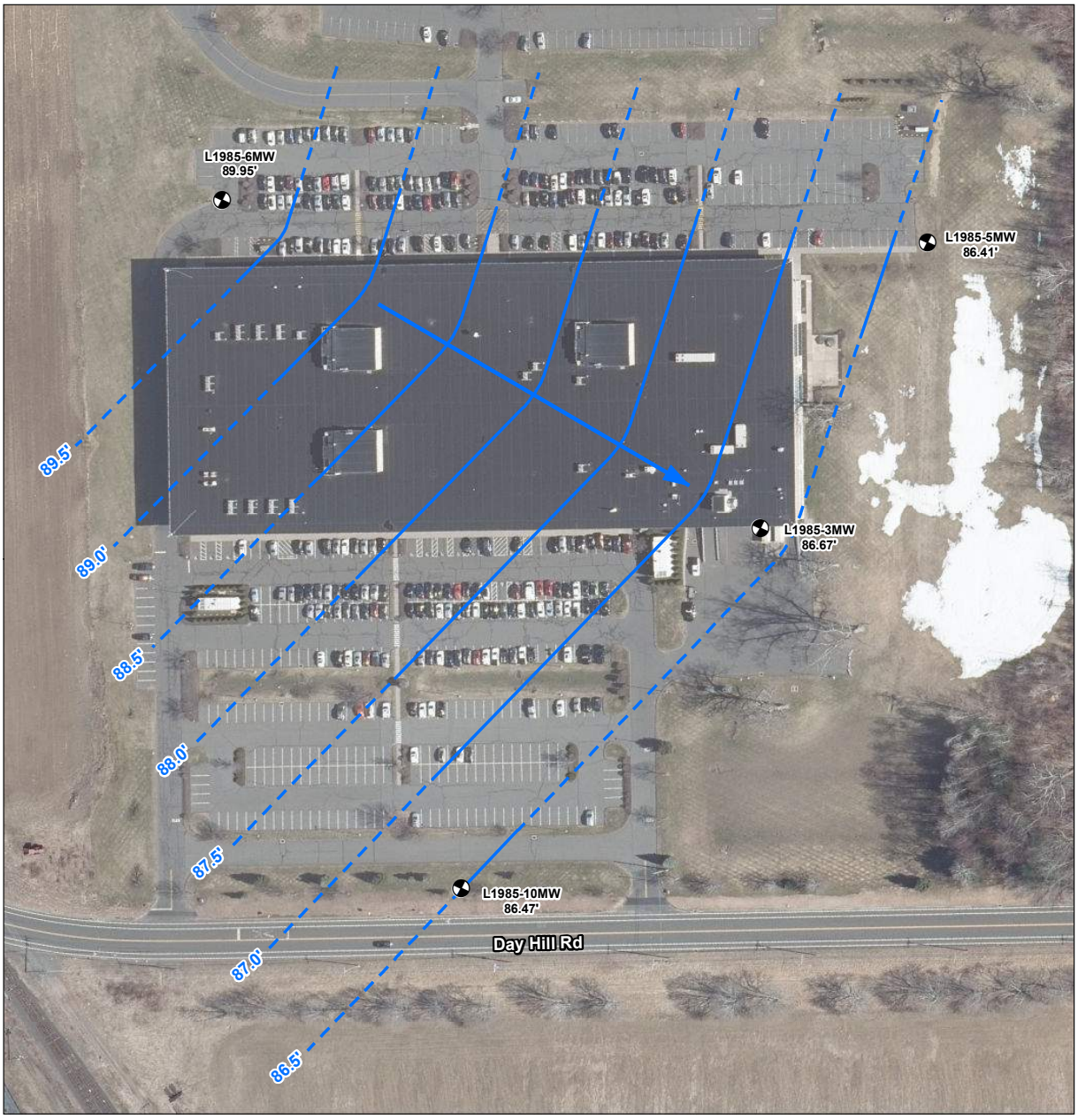

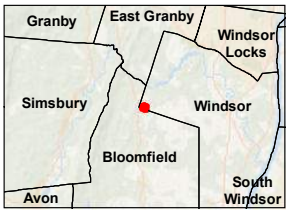

Legend

- Monitoring Well with Groundwater Elevation
- Groundwater Flow Direction
- Groundwater Contour (dashed where inferred)

0 150 Feet

(At original document size of 8.5x11)
1:1,800

N

Stantec

Project Location
Windsor, Connecticut

Prepared by PWB on 2021-06-09
TR Review by KWH on 2021-06-09
IR Review by EB on 2021-06-09

Client/Project 195602175
Eversource Energy Service Company
1985 Blue Hills Ave. Ext., Windsor, CT

Figure No.
3

Title
Groundwater Elevation Map

Notes
1. Coordinate System: NAD 1983 StatePlane Connecticut FIPS 0600 Feet.
2. Data Sources: CT DEEP, Stantec.
3. Groundwater elevations referenced to site-specific datum.
4. Background: Aerial Orthoimagery provided by CTECO, 2019.

V:\1956\active\195602175\03_data\gis_cad\gis\MXDs\2175_05_1985_GW_Contours.mxd Revised: 2021-06-11 By: pbarbera

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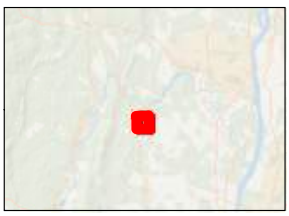

Legend
- Subject Parcel
- 500-ft Subject Parcel Buffer
- Parcel Boundary

0 300 Feet
(At original document size of 8.5x11)
1:6,000

N

Stantec

Project Location
Windsor, Connecticut

Prepared by LKH on 2022-05-17

Client/Project
Eversource
1985 Blue Hills Ave. Ext., Windsor, CT

Figure No.
4

Title
Well Receptor Survey Map

Notes
1. Coordinate System: NAD 1983 StatePlane Connecticut FIPS 0600 Feet.

Z:\GIS\ct\Windsor\01906_02_SitePlan.mxd Revised: 2022-05-25 By: lkharrison

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STATE OF CONNECTICUT
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
BUREAU OF WATER PROTECTION AND LAND REUSE
REMEDIATION DIVISION
79 ELM STREET, HARTFORD, CT 06106-5127
(860) 424-3705 **www.ct.gov/deep/remediation**

ENVIRONMENTAL CONDITION ASSESSMENT FORM (ECAF)

This form must be certified by the responsible party, owner, or certifying party, as applicable. This certification attests that the information contained in the ECAF is correct and accurate to the best of such party's knowledge. For detailed directions on completing each part of the ECAF, refer to the instructions. The ECAF is to be a stand-alone document; do not reference attachments, with the exceptions of maps and receptor surveys.

Check the box to indicate the program for which this form is being submitted:

- ☒ Connecticut General Statutes (CGS) section 22a-134a(a)-(e), Property Transfer filing
- ☐ CGS section 22a-133x, Voluntary Remediation
- ☐ Other (specify)

ECAF submitted for ☐ Entire Property or ☐ Release Area

DEEP USE ONLY
Date and File Room Stamp

RemID#:

Part I: Site Identification

1. Name of Site: Eversource Windsor Operations Center
   Street Address: 1985 Blue Hills Avenue Extension
   City/Town: Windsor State: CT Zip Code: 06095-1504
2. Description in Property Deed:
   Recorded on page 1145 in volume 1904 of the Town of Windsor land records, as lot 5,
   block 145, on map 6 in the Tax Assessor's Office.
3. Site Details: Total Acreage: 19.42 Latitude & Longitude (Decimal Degrees):
   41.787052 -72.738741
   Acres Undeveloped: 1.9 Building Footprint Square Footage: 165,000
4. Provide a location map that is based on a USGS quadrangle and shows the location of the site.
5. Include a site plan(s) with current and historical structures and boundaries, hazardous waste and solid waste management areas, areas of operation, areas of concern, release areas, UST and AST locations, septic systems, water supply wells, monitoring wells, groundwater flow direction, limits of groundwater plume,
   sampling locations, and extent of remediation, if known.