

February 11, 2020

Mr. Daniel Lanners Project Manager New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway Albany, New York 12233-7014

Subject: Former M. Argueso and Company, Inc.

441 & 442 Waverly Avenue, Mamaroneck, NY

Site #C360108

2nd Semiannual 2019 Groundwater Monitoring Report

STERLING File #28012 (Task 995)

Dear Mr. Lanners.

Sterling Environmental Engineering P.C. (STERLING) performed semiannual groundwater monitoring at the subject site on December 4, 2019. Groundwater monitoring was conducted in accordance with the approved Site Management Plan (SMP) dated October 2013, and the modifications approved by the New York State Department of Environmental Conservation (NYSDEC) dated March 7, 2014 and April 29, 2015.

Scope & Background

In June 2013, Hydrogen Release Compound (HRC) was injected into the subsurface surrounding wells GZ-22D and GZ-23D. Quarterly groundwater monitoring was conducted for one (1) year after the injection was completed. Semiannual monitoring was approved by the NYSDEC starting in 2015. This report presents the second semiannual groundwater monitoring results for 2019, which included: Groundwater gauging of eight (8) groundwater monitoring wells, calculation of groundwater flow direction, sampling of six (6) groundwater monitoring wells for analysis of volatile organic compounds (VOC) by United States Environmental Protection Agency (USEPA) Method 8260.

Groundwater Flow Direction

The estimated groundwater flow in the deep overburden hydrogeologic unit is to the north and northeast (Figure 1), which is consistent with historical conditions. The deep overburden groundwater elevation decreased an average of 0.42 feet when compared to groundwater elevation measurements collected in March 2019.

Groundwater Monitoring

Four (4) onsite monitoring wells (GZ-21D, GZ-22D, GZ-23D, and B6-OWD) and two (2) offsite monitoring wells (OSMW-3 and OSMW-4) were sampled on December 4, 2019. The locations of the groundwater monitoring wells are presented in Figure 1. Groundwater samples were analyzed for TCL VOCs via USEPA Method 8260C. Groundwater samples were collected in accordance with the SMP and submitted to Alpha Analytical, Inc. of Westborough, Massachusetts under chain-of-custody protocol for

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analysis. Samples were shipped in a cooler with ice and analyzed within applicable holding times. The Daily Field Report and Sampling Data Sheets are attached.

Results of the laboratory analysis for chlorinated VOCs (cVOC) and comparison to Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Water Quality Standards and Guidance Values are summarized in Table 1. The laboratory analytical report is attached.

Since the injections, groundwater quality has significantly improved. Concentrations of PCE and TCE have significantly decreased and are remaining stable in monitoring wells GZ-21D, GZ-22D, GZ-23D, and OSMW-4. Degradation compounds initially increased following injection and subsequently decreased with the majority of cVOCs below groundwater standards. The treatment has been successful in reducing volatile compounds in groundwater and groundwater quality improvement over time is expected to continue.

The following sections detail data trends in each deep zone monitoring well based on data summarized in Table 1:

Onsite Wells

GZ-21D

Since 2014, concentrations of all VOCs steadily decreased through November 2017 to below standards with the exception of 1,2-Dichloroethane (1,2-DCA). Beginning in 2018, concentrations of the following cVOCs have increased to levels above standards: 1,2-DCA, cis-1,2-Dichloroethene (cis-1,2-DCE), and vinyl chloride (VC). Total cVOCs decreased from March 2019 and are lower than the highest levels in 2014. Concentrations of tetrachloroethylene (PCE) and trichloroethylene (TCE) remain below standards.

GZ-22D

PCE and TCE concentrations have decreased to below standards for the last ten (10) sampling events. All other cVOCs have decreased to levels below standards with the exception of 1,2-DCA, cis-1,2-DCE, trans-1,2-Dichloroethene (trans-1,2-DCE) and VC. Total cVOCs decreased from March 2019 and are lower than the highest levels in 2014.

GZ-23D

PCE and TCE concentrations in groundwater decreased significantly in early 2014. TCE concentrations have gradually increased through 2016 and since remained generally stable. PCE concentrations fluctuated through 2016 and have since remained stable. VC, a degradation product of PCE and TCE, increased following the 2013 injections and subsequently decreased through 2016 and have since remained stable. Cis-1,2-DCE concentrations increased following the injections, decreased through 2016, and have since remained stable. Total cVOCs have remained relatively stable and lower than the highest levels prior to treatment.

B6-OWD

Following an initial increase in cVOC concentrations immediately after treatment, all cVOCs decreased to below standards from November 2014 through June 2017. Since November 2017, PCE, TCE, 1,2-DCA, cis-1,2-DCE, and trans-1,2-DCE concentrations have increased above groundwater standards. Total cVOCs decreased from March 2019.

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Offsite Wells

Offsite wells OSMW-3 and OSMW-4 are located upgradient of the treatment zone to determine upgradient groundwater quality.

OSMW-3

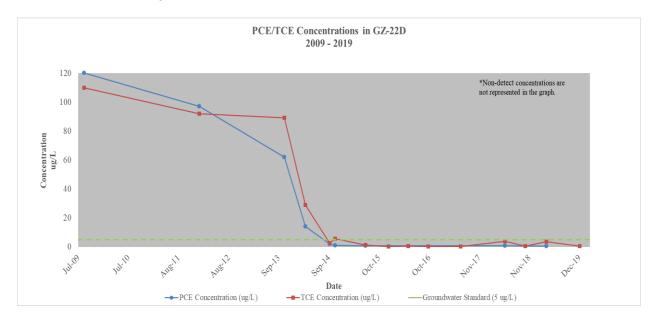
PCE and TCE concentrations initially increased following treatment and steadily decreased from 2014 through May 2018. In October 2018, both PCE and TCE concentrations increased and have remained relatively stable. The concentrations of PCE and total cVOCs for December 2019 are the highest recorded for this location.

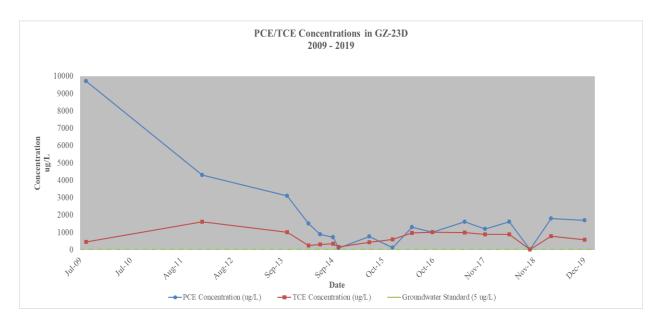
OSMW-4

All cVOCs have been below groundwater standards since 2014.

Injection Well Data Trends

The graphs below depict PCE and TCE concentrations in monitoring wells GZ-22D and GZ-23D over time (2009 - 2019). Initially, monitoring wells GZ-22D and GZ-23D contained the highest concentrations of PCE and TCE in onsite groundwater and were therefore selected for remediation.





Conclusions and Recommendations

- Overall groundwater quality has improved with the majority of cVOCs below groundwater standards.
 Based on the long history of groundwater monitoring and stabilizing conditions, STERLING
 recommends the frequency of sampling be reduced to annual. The treatment has been successful in
 reducing volatile compounds in groundwater and groundwater quality improvement over time is
 expected to continue.
- OSMW-4 has consistently been reported at levels below groundwater standards; therefore, STERLING recommends sampling of this well be discontinued.
- cVOC concentrations in monitoring well B6-OWD increased above standards for the past five (5) monitoring events after being below standards for six (6) consecutive events.
- Groundwater monitoring data collected subsequent to the 2013 HRC injections indicates an overall decrease in the concentration of cVOCs. Therefore, the remedy continues to be effective at this site.
- The next semiannual sampling event is scheduled for the spring of 2020.

Please contact me should you have any questions.

Very truly yours,

STERLING ENVIRONMENTAL ENGINEERING, P.C.

Andrew M. Millspaugh, P.E.

Vice President

andrew.millspaugh@sterlingenvironmental.com

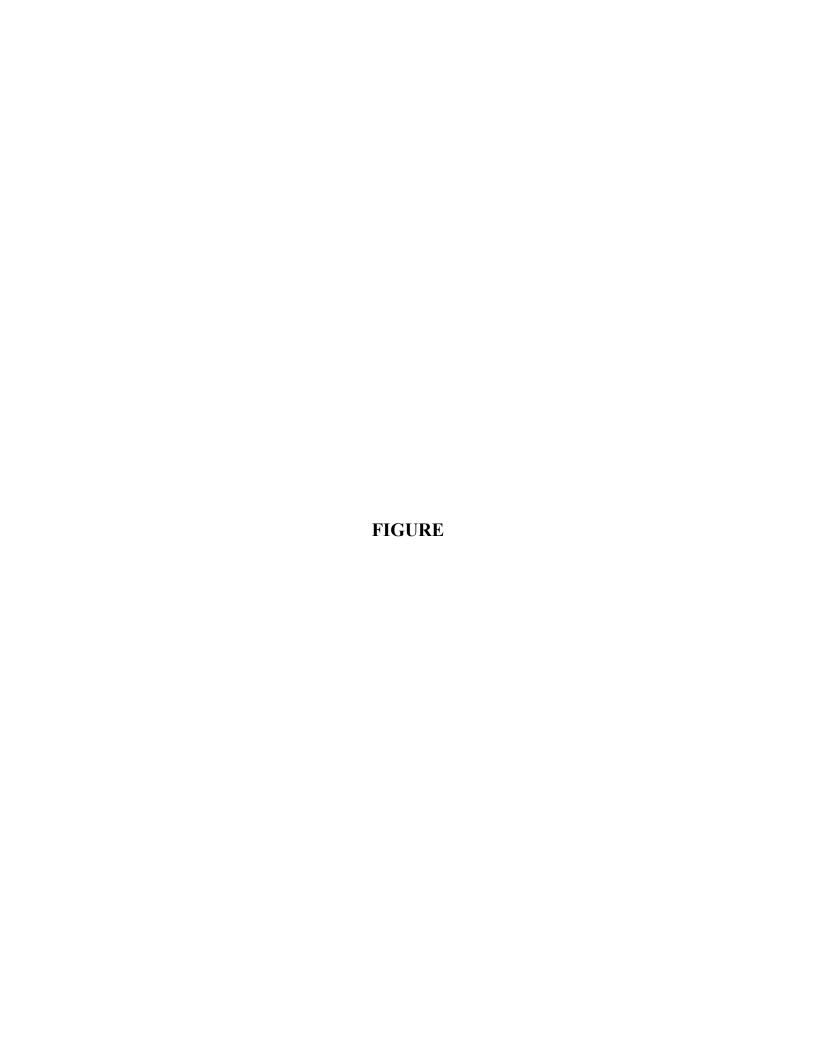
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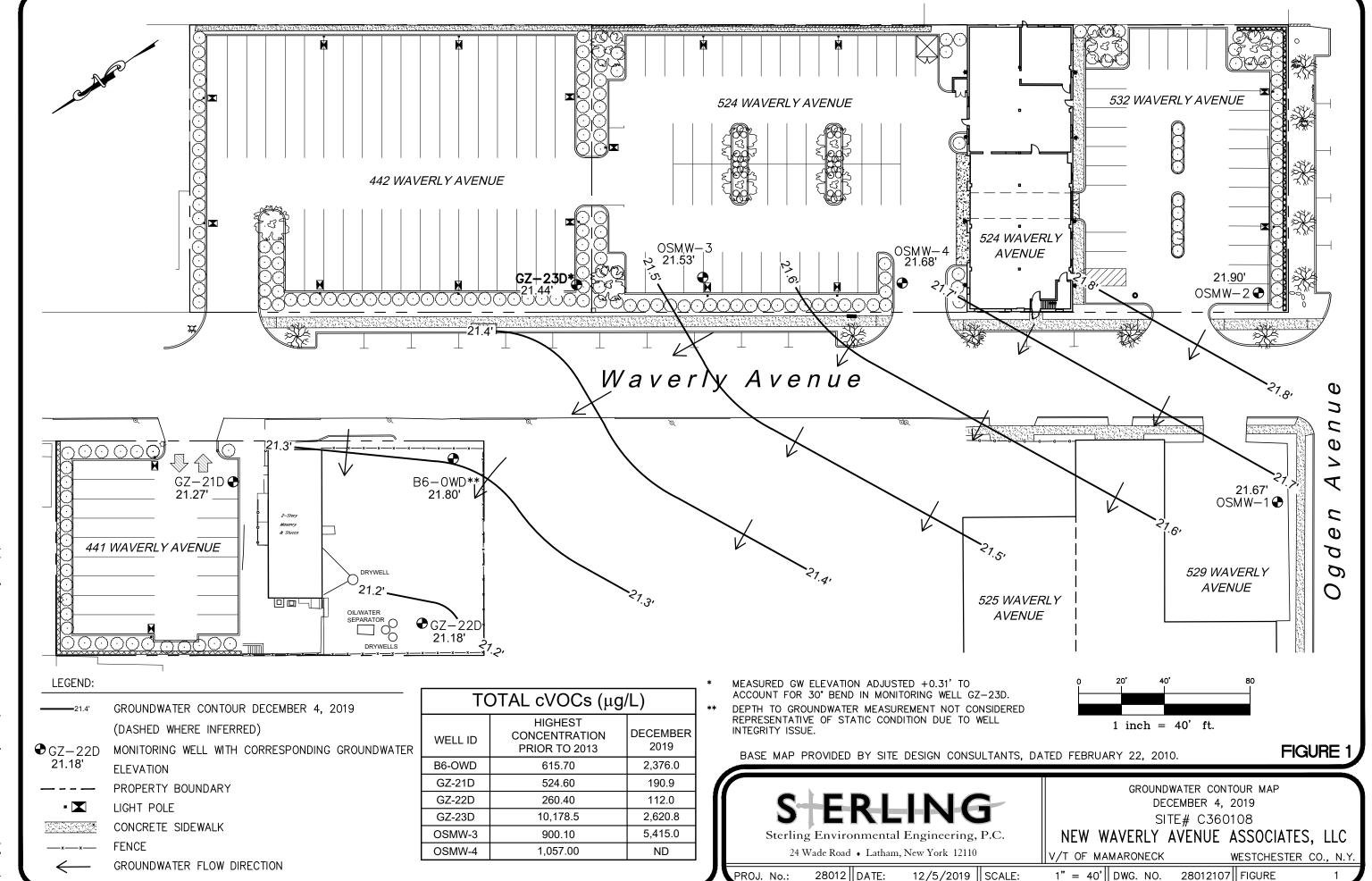
Email/First Class Mail Attachments

cc: T.J. Milo, New Waverly Avenue Associates, LLC

Kevin Young, Young Sommer, LLC Amen Omorogbe, P.E., NYSDEC

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S:\Drawings\28012 - 441 & 442 Waverly Avenue\28012107_F-1 - GW Elev 12-2019.dwg CAD 1/3,



Table 1

Summary of Groundwater Analytical Data Results to Title 6 Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Guidance Values

441 and 442 Waverly Avenue

Chlorinated Volatile Organic Compounds

Site #C360108

Sample ID	Water Quality Standard*								GZ-	-21D									DUP-1	DUP-1	DUP-1
Unit	μg/L								με	g/L									μg/L	μg/L	μg/L
Sample Date		08/20/09	01/11/12	10/15/13	03/24/14	06/18/14	09/24/14	11/05/14	06/23/15	12/16/15	05/12/16	10/12/16	06/13/17	11/14/17	05/16/18	10/18/18	03/27/19	12/04/19	06/18/14	10/12/16	12/04/19
Chlorinated Volatile Organic Compounds:																					
1,1,1-Tricholoroethane	5.0			<5.0	<5.0	<5.0	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<6.2	<2.5	<4.0	<2.5	<2.5
1,1,2,2-Tetrachloroethane	5.0								< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<2.0	<0.5	<1.2	<0.5		< 0.5	< 0.5
1,1,2-Trichloroethane	1.0								<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<6.0	<1.5	<3.8	<1.5		<1.5	<1.5
1,1-Dichloroethane	5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<6.2	<2.5	<4.0	<2.5	<2.5
1,1-Dichloroethene	5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<2.0	< 0.5	<1.2	<0.5	<4.0	< 0.50	< 0.5
. 1,2-Dichloroethane	0.6	170 D	5.3	<5.0	190 D	190	4.1	0.4 J	54	55	28	48	11	11	140	52	110	74	190	56	74
cis-1,2-Dichloroethene	5.0	270 D	10	7.6	310 D	290	5.6	<1.0	100	<2.5	0.83 J	3.5	<2.5	1.7 J	270	120	230	110	350	2.9	110
trans-1,2-Dichloroethene	5.0	6.6	<5.0	<5.0	3.8	<5.0	<1.0	<1.0	0.99 J	0.86 J	<2.5	0.81 J	<2.5	<2.5	3.4 J	2.4 J	2.6 J	1.9 J	<4.0	0.75 J	1.7 J
1,2-Dichloropropane	1.0								<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<2.5	<1.0		<1.0	<1.0
Bromochloromethane	5.0								<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	10	<6.2	<2.5		<2.5	<2.5
Bromodichloromethane	50.0								< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<2.0	< 0.5	<1.2	< 0.5		< 0.5	< 0.5
Carbon Tetrachloride	5.0			<5.0	<5.0	<5.0	<1.0	<1.0	< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<2.0	<0.5	<1.2	<0.5	<4.0	< 0.5	< 0.5
Chloroethane	5.0								<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<6.2	<2.5		<2.5	<2.5
Chloroform	7.0			<5.0	<5.0	<5.0	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<6.2	<2.5	<4.0	<2.5	<2.5
Chloromethane	5.0								<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<6.2	<2.5		<2.5	<2.5
cis-1,3-Dichloropropene	0.4								< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<2.0	<0.5	<1.2	<0.5		< 0.5	< 0.5
Dibromochloromethane	50.0								< 0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	<2.0	1.7 J	<1.2	<0.5		<0.5	< 0.5
Dichlorodifluoromethane	5.0								<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<12	<5		<5.0	<5
Freon-113	5.0		***						<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<6.2	<2.5		<2.5	<2.5
Methylene Chloride	5.0			<5.0	<5.0	5.4	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<6.2	<2.5	<4.0	<2.5	<2.5
Trichlorofluoromethane	5.0		***						<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<6.2	<2.5		<2.5	<2.5
Tetrachloroethene	5.0	41	1.7 J	<5.0	9.8	3.4 J	0.89 J	1.0	0.18 J	< 0.50	< 0.50	< 0.50	< 0.50	0.19 J	<2.0	<0.5	<1.2	<0.5	2.9 J	< 0.50	<0.5
Trichloroethene	5.0	33	0.58 J	<5.0	7.8	15	0.82 J	2.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<2.0	<0.5	<1.2	<0.5	13	< 0.50	<0.5
Vinyl chloride	2.0	4 J	<5.0	<5.0	4.3	<5.0	<1.0	<1.0	1.7	<1.0	0.43 J	<2.3	<1.0	0.59 J	19	12	16	5	<4.0	2.8	4.8
TOTA	L CVOCs	524.6	17.58	7.6	525.7	503.8	11.41	3.7	156.87	55.9	29.26	52.31	11	13.48	432.4	198.1	358.6	190.9	555.9	62.45	190.5

Notes:

BOLD Indicates exceedance of groundwater standard

- * Groundwater Standards are obtained from Title 6 Part 703.5 and Guidance Values (GV) are obtained from NYSDEC TOGS (1.1.1) "Ambient Water Quality Standards and Guidance Values".
- Indicates the parameter was not detected at or above laboratory's reporting limit, shown.
- NA Not Analyzed.
- --- No standard or not applicable.

Laboratory Qualifiers:

- D Indicates the undiluted analysis exceeded the equipment calibration range. The concentration shown is obtained from a diluted analysis.
- J Indicates the concentration shown is an estimated value because the compound was detected below the reporting limit.

- j Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
- U Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
- J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- UJ The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.

Summary of Groundwater Analytical Data Results to Title 6 Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Guidance Values

441 and 442 Waverly Avenue

Chlorinated Volatile Organic Compounds

Site #C360108

Sample ID	Water Quality Standard*								GZ	-22D									DUP-1
Unit	μg/L								με	g/L									ug/L
Sample Date		08/19/09	01/11/12	10/15/13	03/24/14	06/18/14	09/24/14	11/05/14	06/23/15	12/16/15	05/12/16	10/12/16	06/13/17	11/14/17	05/16/18	10/18/18	03/27/19	12/04/19	03/24/14
Chlorinated Volatile Organic Compounds:																			
1,1,1-Tricholoroethane	5.0			<5.0	<25	<25	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<25
1,1,2,2-Tetrachloroethane	5.0								< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	
1,1,2-Trichloroethane	1.0								<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	
1,1-Dichloroethane	5.0	<5.0	<5.0	<5.0	<25	<25	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<25
1,1-Dichloroethene	5.0	<5.0	<5.0	<5.0	<25	<25	<1.0	<1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.5	< 0.5	<25
. 1,2-Dichloroethane	0.6	22	17	16	24 J	<25	1.3	0.64 J	5.4	14	15	18	18	16	21	9.6	20	18	22 J
cis-1,2-Dichloroethene	5.0	8.4	6.5	12	110	<25	1.9	1.7	4.5	6.8	5.2	3.5	4.2	2.4 J	12	7	17	5.7	100
trans-1,2-Dichloroethene	5.0	<5.0	1.3 J	4.2 J	<25	<25	5.8	5.5	9.4	21	28	40	50	54	66	11	75	82	<25
1,2-Dichloropropane	1.0								<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	
Bromochloromethane	5.0								<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
Bromodichloromethane	50.0								< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	
Carbon Tetrachloride	5.0			<5.0	<25	<25	<1.0	<1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<25
Chloroethane	5.0								<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
Chloroform	7.0			<5.0	<25	<25	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<25
Chloromethane	5.0								<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
cis-1,3-Dichloropropene	0.4								< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	
Dibromochloromethane	50.0								< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	
Dichlorodifluoromethane	5.0								<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 0.5	<5.0	<5	<5	
Freon-113	5.0								<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
Methylene Chloride	5.0			<5.0	<25	19 J	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<25
Trichlorofluoromethane	5.0								<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
Tetrachloroethene	5.0	120	97	62	14 J	<25	2.1	0.88 J	0.69	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.62 J-	< 0.50	0.4 J	< 0.5	21 J
Trichloroethene	5.0	110	92	89	29	<25	2.5	5.5	1.2	0.33 J	0.46 J	0.29 J	0.2 J	< 0.50	3.7	0.52	3.6	0.5	34
Vinyl chloride	2.0	<5.0	<5.0	<5.0	<25	<25	<1.0	<1.0	1.8	6.5	5.7	3.1	3.8 j	2.9	5.9	<1.0	8.3	5.8	<25
TOTAL CVOC	i e	260.4	213.8	183.2	177	19	13.6	14.22	22.99	48.6	54.36	64.89	76.2	75.3	109.22	28.12	124.3	112.0	177

Notes:

BOLD Indicates exceedance of groundwater standard

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- J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
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Summary of Groundwater Analytical Data Results to Title 6 Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Guidance Values

441 and 442 Waverly Avenue

Chlorinated Volatile Organic Compounds

Site #C360108

	1	ı						Site #C5001											
Well ID	Water Quality Standard*								GZ-	23D									DUP-1
Unit	μg/L								με	/L				•		•			μg/L
Sample Date		08/20/09	01/11/12	10/15/13	03/25/14	06/19/14	09/25/14	11/05/14	06/24/15	12/17/15	05/12/16	10/12/16	06/13/17	11/14/17	05/16/18	10/18/18	03/28/19	12/04/19	06/13/17
Chlorinated Volatile Organic Compounds:																			
1,1,1-Tricholoroethane	5.0			<100	<40	<20	<20	<20	<25	<50	<25	<62	<50	<50	<25	<12	<50	<50	<50
1,1,2,2-Tetrachloroethane	5.0								<5.0	<10	<5.0	<12	<10	<10	<5.0	<2.5	<10	<10	<10
1,1,2-Trichloroethane	1.0								<15	<30	<15	<38	<30	<30	<15	<7.5	<30	<30	<30
1,1-Dichloroethane	5.0	<5.0	<5.0	<100	<1.0	<20	<20	<20	<25	<50	<25	<62	<50	<50	<25	<12	<50	<50	<50
1,1-Dichloroethene	5.0	5.5	1.6 J	<100	1.7	<20	<20	<20	1.9 J	<10	<5.0	<12	<10	<10	<5.0	<2.5	<10	<10	<10
1,2-Dichloroethane	0.6	13	9	<100	7.8	6.6 J	7.6 J	<20	3.6 J	<10	4.3 J	4.2 J	3.9 J	3.3 D,J	1.8 J	1.6 J	3.8 J	6.8 J	4.1 D,
cis-1,2-Dichloroethene	5.0	10	780 D	380	2,200 D	930	1,100	1,100	780	1,000 j	400	320	280	220 D	240	660	150	240	290 D
trans-1,2-Dichloroethene	5.0	<5.0	9.1	<100	41	<20	<20	18 J	22 J	37 J,j	32	36 J	22 J	18 D,J	19 J	10 J	15 J	47 J	21 D,
1,2-Dichloropropane	1.0								<10	<20	<10	<25	<20	<20	<10	<5.0	<20	<20	<20
Bromochloromethane	5.0								<25	<50	<25	<62	<50	<50	<25	<12	<50	<50	<50
Bromodichloromethane	50.0								<5.0	<10	<5.0	<12	<10	<10	<5.0	<2.5	<10	<10	<10
Carbon Tetrachloride	5.0			<100	<40	<20	<20	<20	<5.0	<10	<5.0	<12	<10	<10	<5.0	<2.5	<10	<10	<10
Chloroethane	5.0								<25	<50	<25	<62	<50	<50	<25	<12	<50	<50	<50
Chloroform	7.0			<100	<40	<20	<20	<20	<25	<50	<25	<62	<50	<50	<25	<12	<50	<50	<50
Chloromethane	5.0								<25	<50	<25	<62	<50	<50	<25	<12	<50	<50	<50
cis-1,3-Dichloropropene	0.4								<5.0	<10	<5.0	<12	<10	<10	<5.0	<2.5	<10	<10	<10
Dibromochloromethane	50.0								<5.0	<10	<5.0	<12	<10	<10	<5.0	<2.5	<10	<10	<10
Dichlorodifluoromethane	5.0								<50	<100	<50	<120	<100	<100	<50	<25	<100	<100	<100
Freon-113	5.0								<25	<50	<25	<62	<50	<50	<25	<12	<50	<50	<50
Methylene Chloride	5.0			<100	<40	<20	<20	<20	<25	<50	<25	<62	<50	<50	<25	<12	<50	<50	<50
Trichlorofluoromethane	5.0								<25	<50	<25	<62	<50	<50	<25	<12	<50	<50	<50
Tetrachloroethene	5.0	9,700 D	4,300 D	3,100	1,500 D	880	720	94	750	110 j	1,300	1,000	1,600	1,200 D	1,600	7.6	1,800	1,700	1,500 D
Trichloroethene	5.0	450 DJ	1,600 D	1,000	240 D	310	350	160	420	600 j	960	1,000	980	890 D	880	16	780	570	950 D
Vinyl chloride	2.0	<5.0	1.2 J	28 J	200 D	250	390	320	230 j	<20	200	82	72	58 D	40	96	32	57	71 D
TOTAL CVO	Cs	10,178.5	6,700.9	4,508	4,191	2,376.6	2,567.6	1,692	2,207.5	1,747	2,896.3	2,442.2	2,957.9	2,389.3	2,780.8	791.2	2,780.8	2,620.8	2,836.1

Notes:

BOLD Indicates exceedance of groundwater standard

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- NA Not Analyzed.
- --- No standard or not applicable.

Laboratory Qualifiers:

- D Indicates the undiluted analysis exceeded the equipment calibration range. The concentration shown is obtained from a diluted analysis.
- Indicates the concentration shown is an estimated value because the compound was detected below the reporting limit.

- j Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
- U Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
- J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
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Summary of Groundwater Analytical Data Results to Title 6 Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Guidance Values

441 and 442 Waverly Avenue

Chlorinated Volatile Organic Compounds

Site #C360108

<u></u>		ı																			
Well ID	Water Quality Standard*								В6-	OWD									DUP-1	DUP-1	DUP-1
Unit	μg/L								μ	g/L									μg/L	μg/L	μg/L
Sample Date		08/21/09	01/11/12	10/15/13	03/24/14	06/18/14	09/24/14	11/05/14	06/23/15	12/16/15	05/12/16	10/12/16	06/13/17	11/14/17	05/16/18	10/18/18	03/27/19	12/04/19	12/16/15	05/16/18	10/18/18
Chlorinated Volatile Organic Compounds:																					
1,1,1-Tricholoroethane	5.0			<5.0		<20	<4.0	<8.0	<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50	<25	<50	<25	<2.5	<50	<25
1,1,2,2-Tetrachloroethane	5.0								< 0.5	<0.5	<0.5	<0.5	<1.0	<2.5	<10	<5.0	<10	<5.0	< 0.5	<10	<5.0
1,1,2-Trichloroethane	1.0								<1.5	<1.5	<1.5	<1.5	<3.0	<7.5	<30	<15	<30	<15	<1.5	<30	<15
1,1-Dichloroethane	5.0	<5.0	<5.0	<5.0	<1.0	<4.0	<4.0	<8.0	<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50	<25	<50	<25	<2.5	<50	<25
1,1-Dichloroethene	5.0	<5.0	<5.0	<5.0	<1.0	<4.0	<4.0	<8.0	< 0.50	< 0.50	< 0.50	< 0.50	<1.0	<2.5	<10	<5.0	<10	<5.0	< 0.50	<10	<5.0
1,2-Dichloroethane	0.6	9.7	<5.0	1.9 J	2.8	8.0	9.1	<8.0	0.36 J	< 0.50	0.31 J	0.32 J	0.29 J	3.7 D	11	8.5	15	12 J+	< 0.50	9.1 J	9.4
cis-1,2-Dichloroethene	5.0	390 D	1.5 J	76	180 D	330	430 D	<8.0	1.3 J	1.1 J	2.4 J	2.1 J	1.8 J	150 D	390	360	700	620	1.2 J	330	380
trans-1,2-Dichloroethene	5.0	150	<5.0	6.8	7.2	8.4	14	<8.0	<2.5	<2.5	<2.5	<2.5	<5.0	6.0 J,D	22 J	16 J	41 J	24 J+	<2.5	20 J	17 J
1,2-Dichloropropane	1.0								<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<20	<10	<20	<10	<1.0	<20	<10
Bromochloromethane	5.0								<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50	<25	<50	<25	<2.5	<50	<25
Bromodichloromethane	50.0								< 0.5	< 0.5	< 0.5	<0.5	<1.0	<2.5	<10	<5.0	<10	<5.0	< 0.5	<10	<5.0
Carbon Tetrachloride	5.0			<5.0		<20	<4.0	<8.0	< 0.5	<0.5	< 0.5	<0.5	<1.0	<2.5	<10	<5.0	<10	<5.0	< 0.5	<10	<5.0
Chloroethane	5.0								<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50	<25	<50	<25	<2.5	<50	<25
Chloroform	7.0			<5.0		<20	4	<8.0	<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50	<25	<50	<25	<2.5	<50	<25
Chloromethane	5.0								<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50	<25	<50	<25	<2.5	<50	<25
cis-1,3-Dichloropropene	0.4								< 0.5	<0.5	< 0.5	<0.5	<1.0	<2.5	<10	<5.0	<10	<5.0	< 0.5	<10	<5.0
Dibromochloromethane	50.0								< 0.5	<0.5	< 0.5	<0.5	<1.0	<2.5	<10	<5.0	<10	<5.0	< 0.5	<10	<5.0
Dichlorodifluoromethane	5.0								<5.0	<5.0	<5.0	<5.0	<10	<25	<100	<50	<100	<50	<5.0	<100	<50
Freon-113	5.0								<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50	<25	<50	<25	<2.5	<50	<25
Methylene Chloride	5.0			<5.0		<20	<4.0	<8.0	<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50	<25	<50	<25	<2.5	<50	<25
Trichlorofluoromethane	5.0								<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50	<25	<50	<25	<2.5	<50	<25
Tetrachloroethene	5.0	23	6.2	18	59	47	110	<8.0	2.4	2.1	2.4	2.6	2.6	190 D	1,200 J-	860	1400	520	2.2	1,100 J-	950
Trichloroethene	5.0	43	2.1 J	41	170 D	180	330	<8.0	1.3	1.4	1.7	1.7	1.4	470 D	1,400	1,300	2000	1,200	1.4	1,400	1,400
Vinyl chloride	2.0	<5.0	<5.0	<5.0	<1.0	<4.0	<4.0	<8.0	<1.0	<1.0	0.27 J	0.28 J	0.2 ј	<5.0	1.8 J	<10	3.6 J	<10	<1.0	1.8 J	2.1 J
TOTAL CV	OCs	615.7	9.8	143.7	419	573.4	893.1	ND	5.36	4.6	7.08	7	6.29	819.7	3,024.8	2,544.5	4,159.6	2,376.0	4.8	2,860.9	2,758.5

Notes:

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- Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
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Summary of Groundwater Analytical Data Results to Title 6 Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Guidance Values

441 and 442 Waverly Avenue

Chlorinated Volatile Organic Compounds

Site #C360108

Well ID	Water Quality Standard*								OSMW-3									DUP-1	DUP-1
Unit	μg/L								μg/L									μg/L	μg/L
Sample Date		01/10/12	10/16/13	03/24/14	06/19/14	09/24/14	11/05/14	06/24/15	12/17/15	05/12/16	10/12/16	06/13/17	11/14/17	05/16/18	10/18/18	03/28/19	12/04/19	11/05/14	11/14/17
Chlorinated Volatile Organic Compounds:																			
1,1,1-Tricholoroethane	5.0		<80		<20		<50	<50	<100	<12	<25	<2.5	<25	<5.0	<62	<62	<120	<1.0	
1,1,2,2-Tetrachloroethane	5.0							<10	<20	<2.5	<5.0	< 0.5	<5.0	<1.0	<12	<12	<25		
1,1,2-Trichloroethane	1.0							<30	<60	<7.5	<15	<1.5	<15	<3.0	<38	<38	<75		
1,1-Dichloroethane	5.0	<5.0	<80	<1.0	<20	<20	<50	<50	<100	<12	<25	<2.5	<25	<5.0	<62	<62	<120	<1.0	<25
1,1-Dichloroethene	5.0	<5.0	<80	<1.0	<20	<20	<50	<10	<20	<2.5	<5.0	0.46 J	<5.0	<1.0	<12	<12	<25	1.4	<5.0
1,2-Dichloroethane	0.6	4.4 J	<80	4.7	<20	<20	<50	<10	<20	3.8	4.2 J	5.2	4.5 J,D	1.7	<12	3.9 J	<25	3.5	4.3 J
cis-1,2-Dichloroethene	5.0	14	31 J	46	100	220	210	180	120 j	92	63	40	39 D	17	200	85	75 J	210 D	39 1
trans-1,2-Dichloroethene	5.0	1.7 J	<80	3.7	<20	28	<50	25 J	<100	21	14 J	7.4	<25	<5.0	<62	<62	<120	26	7.1
1,2-Dichloropropane	1.0							<20	<40	<5.0	<10	<1.0	<10	<2.0	<25	<25	<50		
Bromochloromethane	5.0							<50	<100	<12	<25	<2.5	<25	<5.0	<62	<62	<120		
Bromodichloromethane	50.0							<10	<20	<2.5	<5.0	< 0.5	<5.0	<1.0	<12	<12	<25		
Carbon Tetrachloride	5.0		<80		<20		<50	<10	<20	<2.5	<5.0	< 0.5	<5.0	<1.0	<12	<12	<25	<1.0	
Chloroethane	5.0							<50	<100	<12	<25	<2.5	<25	<5.0	<62	<62	<120		
Chloroform	7.0		<80		<20		<50	<50	<100	<12	<25	<2.5	<25	<5.0	<62	<62	<120	<1.0	
Chloromethane	5.0							<50	<100	<12	<25	<2.5	<25	<5.0	<62	<62	<120		
cis-1,3-Dichloropropene	0.4							<10	<20	<2.5	<5.0	< 0.5	<5.0	<1.0	<12	<12	<25		
Dibromochloromethane	50.0							<10	<20	<2.5	<5.0	< 0.5	<5.0	<1.0	<12	<12	<25		
Dichlorodifluoromethane	5.0							<100	<200	<25	<50	<5.0	<50	<10	<120	<120	<250		
Freon-113	5.0							<50	<100	<12	<25	<2.5	<25	<5.0	<62	<62	<120		
Methylene Chloride	5.0		<80		<20		<50	<50	<100	<12	<25	<2.5	<25	<5.0	<62	<62	<120	<1.0	
Trichlorofluoromethane	5.0							<50	<100	<12	<25	<2.5	<25	<5.0	<62	<62	<120		
Tetrachloroethene	5.0	760 D	1,900	2,400 D	1,300	2,600 D	3,400	1,500	1,200 j	670	470	620 D	750 D	220 J-	3,600	2,900	4,900	2,900 D	760 I
Trichloroethene	5.0	120	280	330 D	440	1,000	1,000	610	480 j	290	230	170 D	220 D	110	500	450	440	900 D	220 I
Vinyl chloride	2.0	<5.0	<80	<1.0	<20	<20	<50	<1.4 j	<40	0.44 J	<10	0.14 J	<10	<2.0	8.1 J	<25	<50	<1.0	<10
TOTAL CVOC	s	900.1	2,211	2,784	1,840	3,848	4,610	2,315	1,800	1,077	781.2	843.2	1,014	348.7	4,308.1	3,438.9	5,415.0	4,041	1,030

Notes:

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Summary of Groundwater Analytical Data Results to Title 6 Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Guidance Values

441 and 442 Waverly Avenue

Chlorinated Volatile Organic Compounds

Site #C360108

Well ID	Water Quality Standard*								OSMW-4									DUP-1	DUP-1	DUP-1	DUP-1
Unit	μg/L								μg/L									μg/L	μg/L	μg/L	μg/L
Sample Date		01/10/12	10/16/13	03/25/14	06/18/14	09/24/14	11/05/14	06/24/15	12/17/15	05/12/16	10/12/16	06/13/17	11/14/17	05/16/18	10/18/18	03/27/19	12/04/19	01/10/12	09/24/14	06/24/15	05/12/16
Chlorinated Volatile Organic Compounds:																					
1,1,1-Tricholoroethane	5.0		<5.0	<25	<25	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5		<1.0	<2.5	<2.5
1,1,2,2-Tetrachloroethane	5.0							< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<1.0	< 0.5	<0.5	<0.5			< 0.5	<0.5
1,1,2-Trichloroethane	1.0							<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<3.0	<1.5	<1.5	<1.5			<1.5	<1.5
1,1-Dichloroethane	5.0	<5.0	<5.0	<25	<25	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5	<5.0	<1.0	<2.5	<2.5
1,1-Dichloroethene	5.0	<5.0	<5.0	<25	<25	<1.0	<1.0	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	<1.0	< 0.5	<0.5	<0.5	<5.0	<1.0	< 0.50	< 0.50
1,2-Dichloroethane	0.6	1.1 J	<5.0	<25	<25	<1.0	<1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<1.0	< 0.5	< 0.5	< 0.5	1.1 J	<1.0	< 0.50	< 0.50
cis-1,2-Dichloroethene	5.0	29	3.8 J	<25	<25	6.2	6.0	1.2 J	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	4.5	0.72 J	<2.5	29	5.2	1.2 J	<2.5
trans-1,2-Dichloroethene	5.0	6.9	1 J	<25	<25	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	1.3 J	<2.5	<2.5	7.2	<1.0	<2.5	<2.5
1,2-Dichloropropane	1.0							<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1	<1			<1.0	<1.0
Bromochloromethane	5.0							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5			<2.5	<2.5
Bromodichloromethane	50.0							<0.5	0.5	<0.5	< 0.5	< 0.5	<0.5	<1.0	< 0.5	< 0.5	< 0.5			<0.5	< 0.5
Carbon Tetrachloride	5.0		<5.0	<25	<25	<1.0	<1.0	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<1.0	< 0.5	<0.5	<0.5		<1.0	< 0.5	<0.5
Chloroethane	5.0							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5			<2.5	<2.5
Chloroform	7.0		<5.0	<25	<25	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5		<1.0	<2.5	<2.5
Chloromethane	5.0							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5			<2.5	<2.5
cis-1,3-Dichloropropene	0.4							< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<1.0	< 0.5	<0.5	<0.5			<0.5	<0.5
Dibromochloromethane	50.0							< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	<1.0	< 0.5	<0.5	<0.5			< 0.5	<0.5
Dichlorodifluoromethane	5.0							<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5	<5			<5.0	<5.0
Freon-113	5.0							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5			<2.5	<2.5
Methylene Chloride	5.0		<5.0	<25	33	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5		<1.0	<2.5	<2.5
Trichlorofluoromethane	5.0							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5			<2.5	<2.5
Tetrachloroethene	5.0	790 D	11	<25	<25	3.4	3.2	0.44 J	< 0.50	0.2 J,j	2.0	1.1	0.25 J	<1.0 J	0.25 J	<0.5	<0.5	730 D	3.4	0.48 J	0.19 J,j
Trichloroethene	5.0	230 D	15	<25	<25	6.0	4.5	1.0	0.56	0.53	1.1	0.57	< 0.50	<1.0	0.48 J	<0.5	<0.5	220 D	5.5	1.1	0.58
Vinyl chloride	2.0	<5.0	<5.0	<25	<25	<1.0	<1.0	<0.07 j	<1.0	<1.0	<1.0	<1.0 j	<1.0	<2.0	0.54 J	<1	<1	<5.0	<1.0	<1.0 j	<1.0
TOTAL CV	/OCs	1,057	30.8	ND	33	15.6	13.7	2.6	0.56	0.73	3.1	1.67	0.25	ND	7.07	0.72	ND	987	14.1	2.78	0.77

Notes:

BOLD Indicates exceedance of groundwater standard

- * Groundwater Standards are obtained from Title 6 Part 703.5 and Guidance Values (GV) are obtained from NYSDEC TOGS (1.1.1) "Ambient Water Quality Standards and Guidance Values".
- < Indicates the parameter was not detected at or above laboratory's reporting limit, shown.
- NA Not Analyzed.
- No standard or not applicable.

Laboratory Qualifiers:

- D Indicates the undiluted analysis exceeded the equipment calibration range. The concentration shown is obtained from a diluted analysis.
- Indicates the concentration shown is an estimated value because the compound was detected below the reporting limit.

- j Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
- U Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
- J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- UJ The analyte was analzyed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.

Summary of Groundwater Analytical Data Results to Title 6 Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Guidance Values

441 and 442 Waverly Avenue

Chlorinated Volatile Organic Compounds

Site #C360108

Well ID	Water Quality Standard*	OSM	IW-1	OSM	1W-2	DUP-1
Unit	μg/L	μg	g/L	με	g/L	
Sample Date		01/10/12	03/28/19	01/10/12	03/28/19	03/28/19
Chlorinated Volatile Organic Compounds:						
1,1,1-Tricholoroethane	5.0	<5	<2.5	<5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	5.0	NA	<0.5	NA	< 0.5	< 0.5
1,1,2-Trichloroethane	1.0	NA	<1.5	NA	<1.5	<1.5
1,1-Dichloroethane	5.0	<5	<2.5	<5	<2.5	<2.5
1,1-Dichloroethene	5.0	<5	<0.5	<5	< 0.5	< 0.5
1,2-Dichloroethane	0.6	<5	<0.5	<5	< 0.5	< 0.5
cis-1,2-Dichloroethene	5.0	<5	<2.5	1.1 J	<2.5	<2.5
trans-1,2-Dichloroethene	5.0	<5	<2.5	<5	<2.5	<2.5
1,2-Dichloropropane	1.0	NA	0.27 J	NA	<1	<1
Bromochloromethane	5.0	NA	<2.5	NA	<2.5	<2.5
Bromodichloromethane	50.0	NA	<0.5	NA	<0.5	< 0.5
Carbon Tetrachloride	5.0	<5	<0.5	<5	<0.5	< 0.5
Chloroethane	5.0	NA	<2.5	NA	<2.5	<2.5
Chloroform	7.0	<5	<2.5	<5	<2.5	<2.5
Chloromethane	5.0	NA	<2.5	NA	<2.5	<2.5
cis-1,3-Dichloropropene	0.4	NA	<0.5	NA	<0.5	< 0.5
Dibromochloromethane	50.0	NA	<0.5	NA	<0.5	<0.5
Dichlorodifluoromethane	5.0	NA	<5	NA	<5	<5
Freon-113	5.0	NA	<2.5	NA	<2.5	<2.5
Methylene Chloride	5.0	<5	<2.5	<5	<2.5	<2.5
Trichlorofluoromethane	5.0	NA	<2.5	NA	<2.5	<2.5
Tetrachloroethene	5.0	<5	< 0.5	<5	< 0.5	< 0.5
Trichloroethene	5.0	<5	<0.5	<5	<0.5	<0.5
Vinyl chloride	2.0	<5	<1	<5	<1	<1
TOTAL CVOC	s	0	0.27	1.1 J	0	0

Notes:

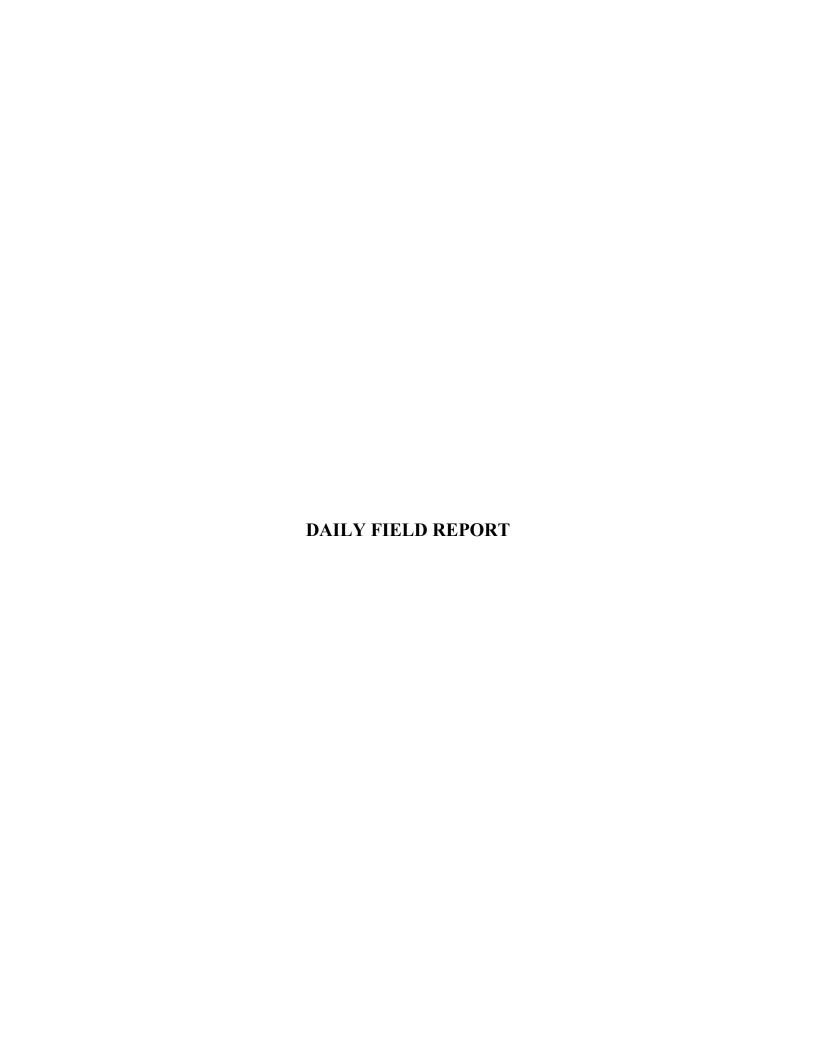
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- UJ The analyte was analzyed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.



SERLING Sterling Environmental Engineering, P.C.

S:\Sterling Misc. Office Files\Forms\Field Work\DFRs\Daily Field Report_2018.docx

DAILY FIELD REPORT

Project Name: 441 & 442 Waverly Ave Project No: 28012
Client Name: TJM; 10 Date: 12/4/19
Location: Manaroneck, NJ Personnel: PWS-Paul Scholar
Weather: 35° Cloudy
Work Description:
815 PWS onsite, locate monitoring wells, Truck
parked over B6-OWD, Driver to move truck
835 PWS calibrates 451 PRO DSS, set up at 67 05mw-4
925 Sample OSMW-4, Decon Water level one ter and
relocate to 62-22D
1035 Sample GZ-22D; relocate to GZ-21D; decon equi
1140 Sample 62-21D. Duplicate taken (Dupiao 42014)
1200 Setupat GZ-23D (5/8" Waterra) Well cusings med
cemented (D+S), PWS Inspects Lover System + Building
1330 Sample GZ-23D Decon; relocate to OSMW-4 1430 Sample OSMW-3; decon; set up at B6-OWD
1530 Sample B6-OWD with peristaltic pump.
Wall coin and PVC damaged oil from dissel
Well casing and PVC damaged. Oil from diesel truck leaking near well. Possible continuination
in well. (MS X MSD)
1600 Water level measurements taken at OSMW-1605MW-
1630 Communications with MAW at STERLING
1645 PWS offsite
1950 Samples Relinquished at Alpha Analytical
Alban NY
2000 Return to STERLING and unload equipinent
•—————————————————————————————————————
ignature: 11.15
Page l of /



Post Closure Monitoring Sampling Report & Instrument Calibration Form

Date: 2019. De	۷3		Project Name: Waverly 28012
Personnel: PWS			Project Number: 280/2
Weather: 35° Cl	oody		Location: 441/442 Waverly Ave
Notes: \$15 PWS 0	nsite,	Locat	Wells Truckon BLOWD
925 Simple	OSMW.	ч,	Decon
935 Set up	at GZ	220	Truck Moved from BlowD
1015 Begin	Priging 6	GEEZ&	see DFR
***************************************	- 0		
Wells no	eed v	new	3/8" x 1" Stainless Steel Bolt
6Z-23D +	62.23	383	need cemented
B6-0WD n	ray be	conta	mineted by deesel oil from trucks.
Crocks and	120 42	1.5	" at 441 Waverly Ave
a racky ove	7		
Luckey and Calibration De			
Instrument Calibration De			F122011
Instrument(s): $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$	<u>د درا د،</u>	ID/S	Serial #: 1 40509 (
Calibration Standard(s):			
Calibration Standard(s):	Reading(s)	Time	Calibration Standard(s): Reading(s) Time
PH 7,06	7.03		
DH 4.00			
PH 10.03	10.04		
Cond 7.00	6.95		
Cal Needed? Y . N .			
Instrument(s):		ID/S	Serial #:
Calibration Standard(s):			
Calibration Standard(s):	Reading(s)	Time	Calibration Standard(s): Reading(s) Time
, /			
Cal Needed? Y N N			



Safety Meeting Checklist

PROJECT: 441 & 442 W	iverly Avenue		PROJECT NO. 28012	
MEETING CONDUCTED BY:	PUS		DATE/DAY: 12/4/2019	
	the second second			
Description of Work to be Performe Ground water Somplin Site Inspection Description of Concerns or Modific	g (Gwell) ations:			
Missing Bolts and	danaged wel	.15		
Potential Health Hazards & Protecti	ons (Check Applicable Haza	rds)		
□ Excessive Noise: Shemical Splash: Heat/Cold Stress: Slip/Trip: Vehicle Traffic: Heavy Equipment: Biological Hazards: Dust/Particulates: Vapor/Fumes: Hand Tool Use: Water Bodies: Slippery Surfaces: First Aid Kit: Decontamination: Eye Protection:		Notes:		
NAME:	SIGNATURE:	СОМР	PANY:	
Paul Scholar	Pas	Ste	erling Environmental Engineering	r

441/442 Waverly Avenue – Semiannual Groundwater Sampling Event

Name:	Paul Scholar	
-------	--------------	--

Date: ____12/04/2019____

Event: 1^{st} / 2nd

Well I.D.	Total Well Depth (feet below measuring point)	Measuring Point Elevation (to inner riser mark from datum)	Depth to Water (feet below measuring point)	Ground Water Elevation	Color	Odor	Sheen
OSMW-4	35.62	30.84	8.9	21.67	Light Brown	Sweet	None
GZ-21D	44.21	29.38	9.04	21.9	Clear	None	None
GZ-22D	46.04	30.48	8.97	21.53	Clear	None	None
B6-OWD	35.30	30.36	9.16	21.68	Clear	None	None
OSMW-3	39.40	30.50	8.11	21.27	Cloudy	Sweet	None
GZ-23D*	44.86	31.02	9.3	21.18	Dark Gray	Earthy	None
OSMW-1	36.24	30.57	9.89	21.44*	NA	NA	NA
OSMW-2	40.84	30.94	8.56	21.8	NA	NA	NA

*Adjust +0.31 to Ground Water Elevatio n at Well GZ-23 to account for 30° bend in monitori ng well.





Project:	Waverly	Well No.: USMW-Y	
Site:	401 & 402 Waverly Ave	Sample Time: 925	
Date:	12/4/2019	Well Depth: 35.62	
Sampling Personnel:	Paul Scholar	Well Diameter:	
Sampling Device:	1" Bailer	Screen Length:	
Static Water Level:	9,161	Casing Type: Steel	
Measuring Point:	Top of PVC	Tubing Type: NA	
Total Volume Purged:	3.25	Other Info:	

Time	Pump Rate (L/min.)	Depth to Water (ft.)	Drawdown (< 1m)	рН (± 0.1)	Temp. (°C) (± 3%)	mS/cSC (#S/cm) (± 3%)	ORP (mV) (± 10)	DO (mg/L) (± 10%)	Turbidity (nTu)(± 10%)
	NA	9.16	_	5,96	13.9	0.154	166.4	10.43	72.5
	NA	~	_	6.82	13.9	1.320	-28.4	3.93	242.8
925	NA			6.85	14.6	1.300	-45.7	3.66	157,9
			is .						
						**			

Notes: Color = LT Brown ; sweet Smell	

Types of Samples Collected: VOCs EPA 8260

 $Information: \ 2 \ in. = 617 \ ml/ft., \quad 4 \ in. = 2,470 \ ml/ft., \quad Vol_{cyl} = \pi \ r^2h, \quad 1 \ ft^3 = 7.48 \ gal./28.31L$

Project:	Waverly	Site: #28012
Well No.:	Gzza D	Date: 12/4/19
Well Depth: Well Diameter:	<u> </u>	Screen Length: 5 Casing Type: Steel
Sampling Device: Static Water Level: Other Info.:	Bladder Pump 13.90	Tubing Type:

Sampling Personnel: Paul Schola (PWS)

Time	Pump Rate (L/min.)	Depth to Water (ft.)	Drawdown (< 1m)	pH (± 0.1)	Temp. (°C) (± 3%)	SC (μS) (± 3%)	ORP (mV) (± 10)	DO (mg/L) (± 10%)	Turbidity (nTu)(± 10%)	Notes
1015	0,2	13.9093	0	7.37	14.2	0.789	88.0	1,63	10.01	
1020	0.2	9.27	+0,03	7.29	14.3	0.795	56.7	1.00	17,5	
1025	0,2	9.30	0.00	7.24	14.3	0,859	-109.3	0,40	356	
(630	0.2	9.30	0,00	7,25	14.4	0.862	-126.6	6.33	17.6	
1035	0.2	9.3 L	-0,01	7.25	14,3	0.861	-131.5	0.29	9.8	19
						· ·				
			:40							

Types of Samples Collected: TCL VOCs (EPA 8260)

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft.: $Vol_{cyi} = \pi r^2 h$

Simpled @ 1035

Project: #28012 Site: Waverly 62 210 12/4/19 Well No.: Date: 44,21 Screen Length: ___ Well Depth: Well Diameter: Casing Type: Tubing Type: 1/4/ LDPt Sampling Device: Measuring Point: Top of PVC Static Water Level:

Paul Scholer (PWS) Sampling Personnel:

Time	Pump Rate (L/min.)	Depth to Water (ft.)	Drawdown (< 1m)	pH (± 0.1)	Temp. (°C) (± 3%)	SC (μS) (± 3%)	ORP (mV) (± 10)	DO (mg/L) (± 10%)	Turbidity (nTu)(± 10%)	Notes
1120	0.20	8,11	_	7.40	13,5	1,368	160.5	3.55	6.4	
1125	0.20	8.35	0.24	7.12	15,0	1,403	150.6	0.75	26.8	
1130	1.20	8.35	0	7.11	14.8	1417	149.3	0.44	15.7	
1/35	0,20	8:36	0,01	7.10	14,6	1,416	147.5	034	5,7	
1140	0,20	8.36	0	7.10	14.4	1.427	145.8	0.28	8,1	
7.6.	-33	8	1.00%		100			110000	570	
Ų										

Types of Samples Collected: TCL VOCs (EPA 8260)

Other Info.:

Scripted @ 1140 DUP12042019

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft.: $Vol_{cyl} = \pi r^2 h$

Robing in Well



Project:	Waverly	Well No.: 62-23D
Site:	401 & 402 Waverly Ave	Sample Time: 1330
Date:	12/4/2019	Well Depth: 44.86
Sampling Personnel:	Paul Scholar	Well Diameter: 211
Sampling Device:	5/8" Waterra	Screen Length:
Static Water Level:	9.89	Casing Type: Steel
Measuring Point:	Top of PUC	Tubing Type: 5/8"LDPE
Total Volume Purged:	16.8 gcl.	Other Info: Bendsin well

Time	Pump Rate (L/min.)	Depth to Water (ft.)	Drawdown (< 1m)	pH (± 0.1)	Temp. (°C) (± 3%)	m5/2SC (µS /cm) (±3%)	ORP (mV) (± 10)	DO (mg/L) (± 10%)	Turbidity (nTu)(± 10%)
1904		9.89	_	7.30	13, 3	2,579	-122.1	3,10	675.8
		-	_	7.12	13.4	2.518	-55,9	2.72	445,7
1330		_		7.11	13,4	2.559	-64.4	3.23	219.1
						1			

Notes: Dark Gray High Turbidity	

Types of Samples Collected: VOCs EPA 8260

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft., $Vol_{cyl} = \pi r^2 h$, 1 ft³ = 7.48 gal./28.31L



Project:	Waverly	Well No.:
Site:	401 & 402 Waverly Ave	Sample Time: 1430
Date:	12/4/2019	Well Depth:
Sampling Personnel:	Paul Scholar	Well Diameter:
Sampling Device:	1" Bailer	Screen Length:
Static Water Level:	8.97	Casing Type: Steel
Measuring Point:	Top of PVC	Tubing Type: NA
Total Volume Purged:	375 gal	Other Info:

Time	Pump Rate (L/min.)	Depth to Water (ft.)	Drawdown (< 1m)	pH (± 0.1)	Temp. (°C) (± 3%)	105/cmSC (µS/cm)-(±3%)	ORP (mV) (± 10)	DO (mg/L) (± 10%)	Turbidity (nTu)(± 10%)
	_	8.97	_	7.23	13.8	0.922	35.5	5.03	34,4
	_		_	7.26	14.0	0.997	17.0	5.13	136.7
1430		_	-	7.21	14.1	0.980	-15.2	4.51	125,4
	S :								

Notes: Cloudy, Sweet	Since 11
-	

Types of Samples Collected: VOCs EPA 8260

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft., $Vol_{cyl} = \pi r^2 h$, 1 ft³ = 7.48 gal./28.31L

4418442 Waverly Ave. 12-4-2019 Ave. Site: Project: B6-000 Date: Well No.: 36.051 Screen Length: Well Depth: Casing Type: Stee Well Diameter:

Perist Itic Pump 856 1/4" LOPE Tubing Type: Sampling Device: Measuring Point: Top of PVC Static Water Level:

Other Info.: Paul Scholer (PWS)

Time	Pump Rate (L/min.)	Depth to Water (ft.)	Drawdown (< 1m)	pH (± 0.1)	Temp. (°C) (± 3%)	SC (μS) (± 3%)	ORP (mV) (± 10)	DO (mg/L) (± 10%)	Turbidity (nTu)(± 10%)	Notes
1510	0.200	8.56	-	7.17	14.1	1.547	80,4	1.56	0.4	
1515	0.200	9.46	0.9	7.17	14,4	1,551	109.9	0.64	1.7	
1520	0.206	4.53	0.07	3.18	14.3	1.551	124,8	0.44	18,2	
1525	0.200	9.56	0.03	7.18	14.4	1.550	129:6	0.38	33.0	
1530	0.200	9.56	0.0	7.19	14.2	1,548	130.5	0.33	45.6	
				[*						

Types of S	Samples	Collected
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Sampling Personnel:

VOCS

Sempled @ 1530

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft.: $Vol_{cyl} = \pi r^2 h$

MS sampled @ 1535

MSD Sompled @ 1540

LABORATORY ANALYSIS REPORT AND DATA USABILITY SUMMARY REPORT (DUSR)



ANALYTICAL REPORT

Lab Number: L1958026

Client: Sterling Environmental Eng

24 Wade Road Latham, NY 12110

ATTN: Mark Williams
Phone: (518) 456-4900

Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012 Report Date: 12/11/19

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

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

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



Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

Lab Number: L1958026 **Report Date:** 12/11/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1958026-01	OSMW-4	WATER	MAMARONECK, NY	12/04/19 09:25	12/04/19
L1958026-02	GZ-22D	WATER	MAMARONECK, NY	12/04/19 10:35	12/04/19
L1958026-03	GZ-21D	WATER	MAMARONECK, NY	12/04/19 11:40	12/04/19
L1958026-04	GZ-23D	WATER	MAMARONECK, NY	12/04/19 13:30	12/04/19
L1958026-05	OSMW-3	WATER	MAMARONECK, NY	12/04/19 14:30	12/04/19
L1958026-06	B6-OWD	WATER	MAMARONECK, NY	12/04/19 15:30	12/04/19
L1958026-07	DUP-12042019	WATER	MAMARONECK, NY	12/04/19 00:00	12/04/19
L1958026-08	TB-12042019	WATER	MAMARONECK, NY	12/04/19 00:00	12/04/19



Serial No:12111912:21

Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: 28012 Report Date: 12/11/19

Case Narrative

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

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

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

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

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

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



Serial_No:12111912:21

Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: 28012 Report Date: 12/11/19

Case Narrative (continued)

Report Submission

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

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

Authorized Signature:

Title: Technical Director/Representative Date: 12/11/19

Custin Walker Cristin Walker

ORGANICS



VOLATILES



Serial_No:12111912:21

L1958026

12/11/19

Project Name: 441 & 442 WAVERLY AVENUE

L1958026-01

MAMARONECK, NY

OSMW-4

Project Number: 28012

SAMPLE RESULTS

Date Collected: 12/04/19 09:25

Lab Number:

Report Date:

Date Received: 12/04/19
Field Prep: Not Specified

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/09/19 16:24

Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westboroug	h Lab					
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1



Serial_No:12111912:21

Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: 28012 Report Date: 12/11/19

SAMPLE RESULTS

Lab ID: L1958026-01 Date Collected: 12/04/19 09:25

Client ID: OSMW-4 Date Received: 12/04/19
Sample Location: MAMARONECK, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborou	gh Lab					
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	4.7	J	ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	1.4	J	ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	109		70-130	
Toluene-d8	114		70-130	
4-Bromofluorobenzene	103		70-130	
Dibromofluoromethane	110		70-130	



L1958026

12/11/19

Project Name: 441 & 442 WAVERLY AVENUE

GZ-22D

L1958026-02

MAMARONECK, NY

Project Number: 28012

SAMPLE RESULTS

Date Collected: 12/04/19 10:35

Lab Number:

Report Date:

Date Received: 12/04/19
Field Prep: Not Specified

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/09/19 16:48

Analyst: NLK

Volatile Organics by GC/MS - Westboroug	l. I al.									
Volatile Organics by GC/MS - Westborough Lab										
Methylene chloride	ND		ug/l	2.5	0.70	1				
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1				
Chloroform	ND		ug/l	2.5	0.70	1				
Carbon tetrachloride	ND		ug/l	0.50	0.13	1				
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1				
Dibromochloromethane	ND		ug/l	0.50	0.15	1				
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1				
Tetrachloroethene	ND		ug/l	0.50	0.18	1				
Chlorobenzene	ND		ug/l	2.5	0.70	1				
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1				
1,2-Dichloroethane	18		ug/l	0.50	0.13	1				
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1				
Bromodichloromethane	ND		ug/l	0.50	0.19	1				
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1				
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1				
Bromoform	ND		ug/l	2.0	0.65	1				
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1				
Benzene	2.2		ug/l	0.50	0.16	1				
Toluene	ND		ug/l	2.5	0.70	1				
Ethylbenzene	ND		ug/l	2.5	0.70	1				
Chloromethane	ND		ug/l	2.5	0.70	1				
Bromomethane	ND		ug/l	2.5	0.70	1				
Vinyl chloride	5.8		ug/l	1.0	0.07	1				
Chloroethane	ND		ug/l	2.5	0.70	1				
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1				
trans-1,2-Dichloroethene	82		ug/l	2.5	0.70	1				
Trichloroethene	0.50		ug/l	0.50	0.18	1				
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1				



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: Report Date: 28012 12/11/19

SAMPLE RESULTS

Lab ID: Date Collected: 12/04/19 10:35 L1958026-02

Client ID: Date Received: GZ-22D 12/04/19 Sample Location: MAMARONECK, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor					
Volatile Organics by GC/MS - Westborough Lab											
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1					
Methyl tert butyl ether	2.0	J	ug/l	2.5	0.70	1					
p/m-Xylene	ND		ug/l	2.5	0.70	1					
o-Xylene	ND		ug/l	2.5	0.70	1					
cis-1,2-Dichloroethene	5.7		ug/l	2.5	0.70	1					
Styrene	ND		ug/l	2.5	0.70	1					
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1					
Acetone	ND		ug/l	5.0	1.5	1					
Carbon disulfide	ND		ug/l	5.0	1.0	1					
2-Butanone	ND		ug/l	5.0	1.9	1					
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1					
2-Hexanone	ND		ug/l	5.0	1.0	1					
Bromochloromethane	ND		ug/l	2.5	0.70	1					
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1					
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1					
Isopropylbenzene	ND		ug/l	2.5	0.70	1					
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1					
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1					
Methyl Acetate	ND		ug/l	2.0	0.23	1					
Cyclohexane	1.5	J	ug/l	10	0.27	1					
1,4-Dioxane	ND		ug/l	250	61.	1					
Freon-113	ND		ug/l	2.5	0.70	1					
Methyl cyclohexane	0.71	J	ug/l	10	0.40	1					

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	111	70-130	
4-Bromofluorobenzene	102	70-130	
Dibromofluoromethane	100	70-130	



L1958026

12/11/19

Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

SAMPLE RESULTS

Lab Number:

Report Date:

Lab ID: L1958026-03 Date Collected: 12/04/19 11:40

Client ID: GZ-21D

Date Received: 12/04/19 Sample Location: Field Prep: MAMARONECK, NY Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260C Analytical Date: 12/09/19 17:12

Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westboroe	ugh Lab					
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	74		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.49	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	5.0		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	1.9	J	ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: 28012 Report Date: 12/11/19

SAMPLE RESULTS

Lab ID: L1958026-03 Date Collected: 12/04/19 11:40

Client ID: GZ-21D Date Received: 12/04/19
Sample Location: MAMARONECK, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	stborough Lab					
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	110		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	112	70-130	
4-Bromofluorobenzene	101	70-130	
Dibromofluoromethane	109	70-130	



L1958026

12/11/19

Project Name: 441 & 442 WAVERLY AVENUE

L1958026-04

MAMARONECK, NY

GZ-23D

Project Number: 28012

SAMPLE RESULTS

D

Date Collected: 12/04/19 13:30

Lab Number:

Report Date:

Date Received: 12/04/19
Field Prep: Not Specified

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/09/19 18:00

Analyst: NLK

	Result	Qualifier	Units	RL	MDL	Dilution Factor				
Volatile Organics by GC/MS - Westborough Lab										
Methylene chloride	ND		ug/l	50	14.	20				
1,1-Dichloroethane	ND		ug/l	50	14.	20				
Chloroform	ND		ug/l	50	14.	20				
Carbon tetrachloride	ND		ug/l	10	2.7	20				
1,2-Dichloropropane	ND		ug/l	20	2.7	20				
Dibromochloromethane	ND		ug/l	10	3.0	20				
1,1,2-Trichloroethane	ND		ug/l	30	10.	20				
Tetrachloroethene	1700		ug/l	10	3.6	20				
Chlorobenzene	ND		ug/l	50	14.	20				
Trichlorofluoromethane	ND		ug/l	50	14.	20				
1,2-Dichloroethane	6.8	J	ug/l	10	2.6	20				
1,1,1-Trichloroethane	ND		ug/l	50	14.	20				
Bromodichloromethane	ND		ug/l	10	3.8	20				
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20				
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20				
Bromoform	ND		ug/l	40	13.	20				
1,1,2,2-Tetrachloroethane	ND		ug/l	10	3.3	20				
Benzene	ND		ug/l	10	3.2	20				
Toluene	ND		ug/l	50	14.	20				
Ethylbenzene	ND		ug/l	50	14.	20				
Chloromethane	ND		ug/l	50	14.	20				
Bromomethane	ND		ug/l	50	14.	20				
Vinyl chloride	57		ug/l	20	1.4	20				
Chloroethane	ND		ug/l	50	14.	20				
1,1-Dichloroethene	ND		ug/l	10	3.4	20				
trans-1,2-Dichloroethene	47	J	ug/l	50	14.	20				
Trichloroethene	570		ug/l	10	3.5	20				
1,2-Dichlorobenzene	ND		ug/l	50	14.	20				



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: 28012 Report Date: 12/11/19

SAMPLE RESULTS

Lab ID: L1958026-04 D Date Collected: 12/04/19 13:30

Client ID: GZ-23D Date Received: 12/04/19
Sample Location: MAMARONECK, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor				
Volatile Organics by GC/MS - Westborough Lab										
1,3-Dichlorobenzene	ND		ug/l	50	14.	20				
1,4-Dichlorobenzene	ND		ug/l	50	14.	20				
Methyl tert butyl ether	ND		ug/l	50	14.	20				
p/m-Xylene	ND		ug/l	50	14.	20				
o-Xylene	ND		ug/l	50	14.	20				
cis-1,2-Dichloroethene	240		ug/l	50	14.	20				
Styrene	ND		ug/l	50	14.	20				
Dichlorodifluoromethane	ND		ug/l	100	20.	20				
Acetone	ND		ug/l	100	29.	20				
Carbon disulfide	ND		ug/l	100	20.	20				
2-Butanone	ND		ug/l	100	39.	20				
4-Methyl-2-pentanone	ND		ug/l	100	20.	20				
2-Hexanone	ND		ug/l	100	20.	20				
Bromochloromethane	ND		ug/l	50	14.	20				
1,2-Dibromoethane	ND		ug/l	40	13.	20				
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20				
Isopropylbenzene	ND		ug/l	50	14.	20				
1,2,3-Trichlorobenzene	ND		ug/l	50	14.	20				
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20				
Methyl Acetate	ND		ug/l	40	4.7	20				
Cyclohexane	ND		ug/l	200	5.4	20				
1,4-Dioxane	ND		ug/l	5000	1200	20				
Freon-113	ND		ug/l	50	14.	20				
Methyl cyclohexane	ND		ug/l	200	7.9	20				

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	113	70-130	
4-Bromofluorobenzene	101	70-130	
Dibromofluoromethane	101	70-130	



L1958026

12/11/19

Project Name: 441 & 442 WAVERLY AVENUE

MAMARONECK, NY

D

L1958026-05

OSMW-3

Project Number: 28012

SAMPLE RESULTS

Date Collected: 12/04/19 14:30

Lab Number:

Report Date:

Date Received: 12/04/19 Field Prep: Not Specified

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Water Analytical Method: 1,8260C Analytical Date: 12/09/19 18:47

Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborou	igh Lab					
Methylene chloride	ND		ug/l	120	35.	50
1,1-Dichloroethane	ND		ug/l	120	35.	50
Chloroform	ND		ug/l	120	35.	50
Carbon tetrachloride	ND		ug/l	25	6.7	50
1,2-Dichloropropane	ND		ug/l	50	6.8	50
Dibromochloromethane	ND		ug/l	25	7.4	50
1,1,2-Trichloroethane	ND		ug/l	75	25.	50
Tetrachloroethene	4900		ug/l	25	9.0	50
Chlorobenzene	ND		ug/l	120	35.	50
Trichlorofluoromethane	ND		ug/l	120	35.	50
1,2-Dichloroethane	ND		ug/l	25	6.6	50
1,1,1-Trichloroethane	ND		ug/l	120	35.	50
Bromodichloromethane	ND		ug/l	25	9.6	50
trans-1,3-Dichloropropene	ND		ug/l	25	8.2	50
cis-1,3-Dichloropropene	ND		ug/l	25	7.2	50
Bromoform	ND		ug/l	100	32.	50
1,1,2,2-Tetrachloroethane	ND		ug/l	25	8.4	50
Benzene	ND		ug/l	25	8.0	50
Toluene	ND		ug/l	120	35.	50
Ethylbenzene	ND		ug/l	120	35.	50
Chloromethane	ND		ug/l	120	35.	50
Bromomethane	ND		ug/l	120	35.	50
Vinyl chloride	ND		ug/l	50	3.6	50
Chloroethane	ND		ug/l	120	35.	50
1,1-Dichloroethene	ND		ug/l	25	8.4	50
trans-1,2-Dichloroethene	ND		ug/l	120	35.	50
Trichloroethene	440		ug/l	25	8.8	50
1,2-Dichlorobenzene	ND		ug/l	120	35.	50



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: 28012 Report Date: 12/11/19

SAMPLE RESULTS

Lab ID: L1958026-05 D Date Collected: 12/04/19 14:30

Client ID: OSMW-3 Date Received: 12/04/19
Sample Location: MAMARONECK, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor				
Volatile Organics by GC/MS - Westborough Lab										
1,3-Dichlorobenzene	ND		ug/l	120	35.	50				
1,4-Dichlorobenzene	ND		ug/l	120	35.	50				
Methyl tert butyl ether	ND		ug/l	120	35.	50				
p/m-Xylene	ND		ug/l	120	35.	50				
o-Xylene	ND		ug/l	120	35.	50				
cis-1,2-Dichloroethene	75	J	ug/l	120	35.	50				
Styrene	ND		ug/l	120	35.	50				
Dichlorodifluoromethane	ND		ug/l	250	50.	50				
Acetone	ND		ug/l	250	73.	50				
Carbon disulfide	ND		ug/l	250	50.	50				
2-Butanone	ND		ug/l	250	97.	50				
4-Methyl-2-pentanone	ND		ug/l	250	50.	50				
2-Hexanone	ND		ug/l	250	50.	50				
Bromochloromethane	ND		ug/l	120	35.	50				
1,2-Dibromoethane	ND		ug/l	100	32.	50				
1,2-Dibromo-3-chloropropane	ND		ug/l	120	35.	50				
Isopropylbenzene	ND		ug/l	120	35.	50				
1,2,3-Trichlorobenzene	ND		ug/l	120	35.	50				
1,2,4-Trichlorobenzene	ND		ug/l	120	35.	50				
Methyl Acetate	ND		ug/l	100	12.	50				
Cyclohexane	ND		ug/l	500	14.	50				
1,4-Dioxane	ND		ug/l	12000	3000	50				
Freon-113	ND		ug/l	120	35.	50				
Methyl cyclohexane	ND		ug/l	500	20.	50				

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	112	70-130	
4-Bromofluorobenzene	100	70-130	
Dibromofluoromethane	100	70-130	



L1958026

12/11/19

Project Name: 441 & 442 WAVERLY AVENUE

L1958026-06

MAMARONECK, NY

B6-OWD

D

Project Number: 28012

SAMPLE RESULTS

Date Collected: 12/04/19 15:30

Lab Number:

Report Date:

Date Received: 12/04/19
Field Prep: Not Specified

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/10/19 21:06

Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westboro	ugh Lab					
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	520		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	12		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	24	J	ug/l	25	7.0	10
Trichloroethene	1200		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: Report Date: 28012 12/11/19

SAMPLE RESULTS

Lab ID: D Date Collected: 12/04/19 15:30 L1958026-06

Client ID: Date Received: B6-OWD 12/04/19 Sample Location: MAMARONECK, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	stborough Lab					
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	620		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	126	70-130	
Toluene-d8	106	70-130	
4-Bromofluorobenzene	111	70-130	
Dibromofluoromethane	117	70-130	



L1958026

12/04/19 00:00

Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

SAMPLE RESULTS

Report Date: 12/11/19

Lab Number:

Lab ID: L1958026-07 Date Collected:

Client ID: Date Received: 12/04/19 DUP-12042019 Sample Location: Field Prep: Not Specified MAMARONECK, NY

Sample Depth:

Matrix: Water Analytical Method: 1,8260C Analytical Date: 12/09/19 17:36

Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - West	oorough Lab					
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	74		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.48	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	4.8		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	1.7	J	ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: 28012 Report Date: 12/11/19

SAMPLE RESULTS

Lab ID: L1958026-07 Date Collected: 12/04/19 00:00

Client ID: DUP-12042019 Date Received: 12/04/19
Sample Location: MAMARONECK, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough Lab					
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	110		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	111	70-130	
4-Bromofluorobenzene	100	70-130	
Dibromofluoromethane	103	70-130	



L1958026

Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

SAMPLE RESULTS

Lab Number:

Report Date: 12/11/19

Lab ID: L1958026-08 Date Collected: 12/04/19 00:00

Client ID: Date Received: 12/04/19 TB-12042019 Sample Location: Field Prep: MAMARONECK, NY Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260C Analytical Date: 12/09/19 16:00

Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westb	orough Lab					
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: 28012 Report Date: 12/11/19

SAMPLE RESULTS

Lab ID: L1958026-08 Date Collected: 12/04/19 00:00

Client ID: TB-12042019 Date Received: 12/04/19
Sample Location: MAMARONECK, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westboroug	gh Lab					
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	111	70-130	
4-Bromofluorobenzene	102	70-130	
Dibromofluoromethane	109	70-130	



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: 28012 Report Date: 12/11/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 12/09/19 13:37

Analyst: PD

Parameter	Result	Qualifier Units	RL RL	MDL	
olatile Organics by GC/MS -	Westborough La	ab for sample(s):	01-05,07-08	Batch: WG1318918-	-5
Methylene chloride	ND	ug/l	2.5	0.70	
1,1-Dichloroethane	ND	ug/l	2.5	0.70	
Chloroform	ND	ug/l	2.5	0.70	
Carbon tetrachloride	ND	ug/l	0.50	0.13	
1,2-Dichloropropane	ND	ug/l	1.0	0.14	
Dibromochloromethane	ND	ug/l	0.50	0.15	
1,1,2-Trichloroethane	ND	ug/l	1.5	0.50	
Tetrachloroethene	ND	ug/l	0.50	0.18	
Chlorobenzene	ND	ug/l	2.5	0.70	
Trichlorofluoromethane	ND	ug/l	2.5	0.70	
1,2-Dichloroethane	ND	ug/l	0.50	0.13	
1,1,1-Trichloroethane	ND	ug/l	2.5	0.70	
Bromodichloromethane	ND	ug/l	0.50	0.19	
trans-1,3-Dichloropropene	ND	ug/l	0.50	0.16	
cis-1,3-Dichloropropene	ND	ug/l	0.50	0.14	
Bromoform	ND	ug/l	2.0	0.65	
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	0.17	
Benzene	ND	ug/l	0.50	0.16	
Toluene	ND	ug/l	2.5	0.70	
Ethylbenzene	ND	ug/l	2.5	0.70	
Chloromethane	ND	ug/l	2.5	0.70	
Bromomethane	ND	ug/l	2.5	0.70	
Vinyl chloride	ND	ug/l	1.0	0.07	
Chloroethane	ND	ug/l	2.5	0.70	
1,1-Dichloroethene	ND	ug/l	0.50	0.17	
trans-1,2-Dichloroethene	ND	ug/l	2.5	0.70	
Trichloroethene	ND	ug/l	0.50	0.18	
1,2-Dichlorobenzene	ND	ug/l	2.5	0.70	
1,3-Dichlorobenzene	ND	ug/l	2.5	0.70	



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: 28012 Report Date: 12/11/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 12/09/19 13:37

Analyst: PD

Parameter	Result	Qualifier Units	s RL	MDL	
Volatile Organics by GC/MS - Wes	tborough Lab	for sample(s):	01-05,07-08	Batch: WG1318918-5	5
1,4-Dichlorobenzene	ND	ug/	2.5	0.70	
Methyl tert butyl ether	ND	ug/	2.5	0.70	
p/m-Xylene	ND	ug/	2.5	0.70	
o-Xylene	ND	ug/	2.5	0.70	
cis-1,2-Dichloroethene	ND	ug/	2.5	0.70	
Styrene	ND	ug/	2.5	0.70	
Dichlorodifluoromethane	ND	ug/	5.0	1.0	
Acetone	ND	ug/	5.0	1.5	
Carbon disulfide	ND	ug/	5.0	1.0	
2-Butanone	ND	ug/	5.0	1.9	
4-Methyl-2-pentanone	ND	ug/	5.0	1.0	
2-Hexanone	ND	ug/	5.0	1.0	
Bromochloromethane	ND	ug/	2.5	0.70	
1,2-Dibromoethane	ND	ug/	2.0	0.65	
1,2-Dibromo-3-chloropropane	ND	ug/	2.5	0.70	
Isopropylbenzene	ND	ug/	2.5	0.70	
1,2,3-Trichlorobenzene	ND	ug/	2.5	0.70	
1,2,4-Trichlorobenzene	ND	ug/	2.5	0.70	
Methyl Acetate	ND	ug/	2.0	0.23	
Cyclohexane	ND	ug/	10	0.27	
1,4-Dioxane	ND	ug/	250	61.	
Freon-113	ND	ug/	2.5	0.70	
Methyl cyclohexane	ND	ug/	10	0.40	



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: 28012 Report Date: 12/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 12/09/19 13:37

Analyst: PD

Parameter Result Qualifier Units RL MDL

Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07-08 Batch: WG1318918-5

	Acceptance				
Surrogate	%Recovery Qualifie	er Criteria			
1,2-Dichloroethane-d4	111	70-130			
Toluene-d8	116	70-130			
4-Bromofluorobenzene	101	70-130			
Dibromofluoromethane	101	70-130			



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: 28012 Report Date: 12/11/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 12/10/19 20:19

Analyst: KJD

arameter	Result	Qualifier Units	RL	MDL
olatile Organics by GC/MS	- Westborough La	b for sample(s): 06	Batch:	WG1319454-5
Methylene chloride	ND	ug/l	2.5	0.70
1,1-Dichloroethane	ND	ug/l	2.5	0.70
Chloroform	ND	ug/l	2.5	0.70
Carbon tetrachloride	ND	ug/l	0.50	0.13
1,2-Dichloropropane	ND	ug/l	1.0	0.14
Dibromochloromethane	ND	ug/l	0.50	0.15
1,1,2-Trichloroethane	ND	ug/l	1.5	0.50
Tetrachloroethene	ND	ug/l	0.50	0.18
Chlorobenzene	ND	ug/l	2.5	0.70
Trichlorofluoromethane	ND	ug/l	2.5	0.70
1,2-Dichloroethane	ND	ug/l	0.50	0.13
1,1,1-Trichloroethane	ND	ug/l	2.5	0.70
Bromodichloromethane	ND	ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND	ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND	ug/l	0.50	0.14
Bromoform	ND	ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	0.17
Benzene	ND	ug/l	0.50	0.16
Toluene	ND	ug/l	2.5	0.70
Ethylbenzene	ND	ug/l	2.5	0.70
Chloromethane	ND	ug/l	2.5	0.70
Bromomethane	ND	ug/l	2.5	0.70
Vinyl chloride	ND	ug/l	1.0	0.07
Chloroethane	ND	ug/l	2.5	0.70
1,1-Dichloroethene	ND	ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND	ug/l	2.5	0.70
Trichloroethene	ND	ug/l	0.50	0.18
1,2-Dichlorobenzene	ND	ug/l	2.5	0.70
1,3-Dichlorobenzene	ND	ug/l	2.5	0.70



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: 28012 Report Date: 12/11/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 12/10/19 20:19

Analyst: KJD

Parameter	Result	Qualifier Units	RL	MDL
olatile Organics by GC/MS - V	Vestborough Lat	o for sample(s): 06	Batch:	WG1319454-5
1,4-Dichlorobenzene	ND	ug/l	2.5	0.70
Methyl tert butyl ether	ND	ug/l	2.5	0.70
p/m-Xylene	ND	ug/l	2.5	0.70
o-Xylene	ND	ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND	ug/l	2.5	0.70
Styrene	ND	ug/l	2.5	0.70
Dichlorodifluoromethane	ND	ug/l	5.0	1.0
Acetone	ND	ug/l	5.0	1.5
Carbon disulfide	ND	ug/l	5.0	1.0
2-Butanone	ND	ug/l	5.0	1.9
4-Methyl-2-pentanone	ND	ug/l	5.0	1.0
2-Hexanone	ND	ug/l	5.0	1.0
Bromochloromethane	ND	ug/l	2.5	0.70
1,2-Dibromoethane	ND	ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5	0.70
Isopropylbenzene	ND	ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND	ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND	ug/l	2.5	0.70
Methyl Acetate	ND	ug/l	2.0	0.23
Cyclohexane	ND	ug/l	10	0.27
1,4-Dioxane	ND	ug/l	250	61.
Freon-113	ND	ug/l	2.5	0.70
Methyl cyclohexane	ND	ug/l	10	0.40



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026

Project Number: 28012 Report Date: 12/11/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 12/10/19 20:19

Analyst: KJD

ParameterResultQualifierUnitsRLMDLVolatile Organics by GC/MS - Westborough Lab for sample(s):06Batch:WG1319454-5

		Acceptance
Surrogate	%Recovery Qualifie	r Criteria
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	109	70-130
Dibromofluoromethane	115	70-130



Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

Lab Number: L1958026

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	RPD Qual Limits	
Volatile Organics by GC/MS - Westborough	Lab Associated	sample(s):	01-05,07-08 Bato	h: WG13	18918-3 WG1318	918-4		
Methylene chloride	87		94		70-130	8	20	
1,1-Dichloroethane	88		98		70-130	11	20	
Chloroform	90		99		70-130	10	20	
Carbon tetrachloride	100		110		63-132	10	20	
1,2-Dichloropropane	87		96		70-130	10	20	
Dibromochloromethane	110		120		63-130	9	20	
1,1,2-Trichloroethane	95		100		70-130	5	20	
Tetrachloroethene	110		120		70-130	9	20	
Chlorobenzene	99		110		75-130	11	20	
Trichlorofluoromethane	91		100		62-150	9	20	
1,2-Dichloroethane	97		110		70-130	13	20	
1,1,1-Trichloroethane	92		100		67-130	8	20	
Bromodichloromethane	92		100		67-130	8	20	
trans-1,3-Dichloropropene	94		100		70-130	6	20	
cis-1,3-Dichloropropene	83		91		70-130	9	20	
Bromoform	110		120		54-136	9	20	
1,1,2,2-Tetrachloroethane	100		110		67-130	10	20	
Benzene	84		93		70-130	10	20	
Toluene	99		110		70-130	11	20	
Ethylbenzene	94		110		70-130	16	20	
Chloromethane	84		96		64-130	13	20	
Bromomethane	150	Q	190	Q	39-139	24	Q 20	
Vinyl chloride	99		110		55-140	11	20	



Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

Lab Number: L1958026

Parameter	LCS %Recovery	Qual	LCSD %Recovery	%Recovery Qual Limits	RPD	RPD Qual Limits
/olatile Organics by GC/MS - Westborough	Lab Associated	sample(s):	01-05,07-08 Bate	ch: WG1318918-3 WG131	8918-4	
Chloroethane	100		120	55-138	18	20
1,1-Dichloroethene	89		99	61-145	11	20
trans-1,2-Dichloroethene	96		100	70-130	4	20
Trichloroethene	89		99	70-130	11	20
1,2-Dichlorobenzene	100		110	70-130	10	20
1,3-Dichlorobenzene	100		120	70-130	18	20
1,4-Dichlorobenzene	100		120	70-130	18	20
Methyl tert butyl ether	93		100	63-130	7	20
p/m-Xylene	100		110	70-130	10	20
o-Xylene	100		110	70-130	10	20
cis-1,2-Dichloroethene	84		92	70-130	9	20
Styrene	90		105	70-130	15	20
Dichlorodifluoromethane	100		120	36-147	18	20
Acetone	78		86	58-148	10	20
Carbon disulfide	87		99	51-130	13	20
2-Butanone	78		85	63-138	9	20
4-Methyl-2-pentanone	87		95	59-130	9	20
2-Hexanone	82		93	57-130	13	20
Bromochloromethane	97		100	70-130	3	20
1,2-Dibromoethane	96		100	70-130	4	20
1,2-Dibromo-3-chloropropane	91		110	41-144	19	20
Isopropylbenzene	100		120	70-130	18	20
1,2,3-Trichlorobenzene	100		110	70-130	10	20



Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

Lab Number: L1958026

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough	Lab Associated sa	mple(s): 0	1-05,07-08 Batc	h: WG131	8918-3 WG1318	918-4		
1,2,4-Trichlorobenzene	100		120		70-130	18		20
Methyl Acetate	82		90		70-130	9		20
Cyclohexane	91		100		70-130	9		20
1,4-Dioxane	74		84		56-162	13		20
Freon-113	88		100		70-130	13		20
Methyl cyclohexane	84		96		70-130	13		20

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111	112	70-130
Toluene-d8	115	114	70-130
4-Bromofluorobenzene	100	102	70-130
Dibromofluoromethane	105	105	70-130

Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

Lab Number: L1958026

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	RPD Qual Limits
Volatile Organics by GC/MS - Westborough	h Lab Associated	sample(s): 06	Batch: WG1	319454-3	WG1319454-4		
Methylene chloride	98		100		70-130	2	20
1,1-Dichloroethane	100		100		70-130	0	20
Chloroform	110		110		70-130	0	20
Carbon tetrachloride	120		110		63-132	9	20
1,2-Dichloropropane	99		99		70-130	0	20
Dibromochloromethane	110		100		63-130	10	20
1,1,2-Trichloroethane	110		110		70-130	0	20
Tetrachloroethene	100		100		70-130	0	20
Chlorobenzene	100		100		75-130	0	20
Trichlorofluoromethane	110		110		62-150	0	20
1,2-Dichloroethane	120		120		70-130	0	20
1,1,1-Trichloroethane	120		110		67-130	9	20
Bromodichloromethane	110		110		67-130	0	20
trans-1,3-Dichloropropene	97		94		70-130	3	20
cis-1,3-Dichloropropene	100		100		70-130	0	20
Bromoform	110		110		54-136	0	20
1,1,2,2-Tetrachloroethane	110		110		67-130	0	20
Benzene	99		100		70-130	1	20
Toluene	100		100		70-130	0	20
Ethylbenzene	100		110		70-130	10	20
Chloromethane	74		73		64-130	1	20
Bromomethane	86		100		39-139	15	20
Vinyl chloride	86		85		55-140	1	20



Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

Lab Number: L1958026

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	RPD Qual Limits	
/olatile Organics by GC/MS - Westborough	Lab Associated	sample(s): 06	Batch: WG	1319454-3	WG1319454-4			
Chloroethane	120		120		55-138	0	20	
1,1-Dichloroethene	99		100		61-145	1	20	
trans-1,2-Dichloroethene	100		100		70-130	0	20	
Trichloroethene	97		99		70-130	2	20	
1,2-Dichlorobenzene	100		100		70-130	0	20	
1,3-Dichlorobenzene	100		100		70-130	0	20	
1,4-Dichlorobenzene	100		100		70-130	0	20	
Methyl tert butyl ether	110		100		63-130	10	20	
p/m-Xylene	105		105		70-130	0	20	
o-Xylene	110		110		70-130	0	20	
cis-1,2-Dichloroethene	100		100		70-130	0	20	
Styrene	115		115		70-130	0	20	
Dichlorodifluoromethane	71		71		36-147	0	20	
Acetone	120		120		58-148	0	20	
Carbon disulfide	95		93		51-130	2	20	
2-Butanone	110		98		63-138	12	20	
4-Methyl-2-pentanone	100		100		59-130	0	20	
2-Hexanone	99		99		57-130	0	20	
Bromochloromethane	110		110		70-130	0	20	
1,2-Dibromoethane	110		120		70-130	9	20	
1,2-Dibromo-3-chloropropane	100		110		41-144	10	20	
Isopropylbenzene	110		110		70-130	0	20	
1,2,3-Trichlorobenzene	97		100		70-130	3	20	



Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

Lab Number: L1958026

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westborougl	h Lab Associated s	sample(s): 06	Batch: WO	G1319454-3	WG1319454-4				
1,2,4-Trichlorobenzene	100		100		70-130	0		20	
Methyl Acetate	100		110		70-130	10		20	
Cyclohexane	94		96		70-130	2		20	
1,4-Dioxane	108		126		56-162	15		20	
Freon-113	100		100		70-130	0		20	
Methyl cyclohexane	99		100		70-130	1		20	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	123	121	70-130
Toluene-d8	107	107	70-130
4-Bromofluorobenzene	111	110	70-130
Dibromofluoromethane	116	113	70-130

Matrix Spike Analysis Batch Quality Control

Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

Lab Number: L1958026

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Qual Limits
Volatile Organics by GC/MS OWD	- Westborough	Lab Asso	ciated sample((s): 06 QC Ba	tch ID: W	/G1319454-	6 WG131945	4-7 Q0	C Sample: L	1958020	6-06 Client ID: B6-
Methylene chloride	ND	100	110	110		100	100		70-130	10	20
1,1-Dichloroethane	ND	100	120	120		110	110		70-130	9	20
Chloroform	ND	100	140	140	Q	120	120		70-130	15	20
Carbon tetrachloride	ND	100	160	160	Q	150	150	Q	63-132	6	20
1,2-Dichloropropane	ND	100	100	100		100	100		70-130	0	20
Dibromochloromethane	ND	100	120	120		120	120		63-130	0	20
1,1,2-Trichloroethane	ND	100	110	110		110	110		70-130	0	20
Tetrachloroethene	520	100	620	100		600	80		70-130	3	20
Chlorobenzene	ND	100	110	110		100	100		75-130	10	20
Trichlorofluoromethane	ND	100	170	170	Q	150	150		62-150	13	20
1,2-Dichloroethane	12	100	170	158	Q	150	138	Q	70-130	13	20
1,1,1-Trichloroethane	ND	100	160	160	Q	140	140	Q	67-130	13	20
Bromodichloromethane	ND	100	140	140	Q	120	120		67-130	15	20
rans-1,3-Dichloropropene	ND	100	98	98		95	95		70-130	3	20
cis-1,3-Dichloropropene	ND	100	100	100		99	99		70-130	1	20
Bromoform	ND	100	110	110		110	110		54-136	0	20
1,1,2,2-Tetrachloroethane	ND	100	100	100		100	100		67-130	0	20
Benzene	ND	100	110	110		100	100		70-130	10	20
Toluene	ND	100	110	110		100	100		70-130	10	20
Ethylbenzene	ND	100	120	120		110	110		70-130	9	20
Chloromethane	ND	100	73	73		73	73		64-130	0	20
Bromomethane	ND	100	110	110		120	120		39-139	9	20
/inyl chloride	ND	100	95	95		94	94		55-140	1	20



Matrix Spike Analysis Batch Quality Control

Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

Lab Number:

L1958026

Report Date:

12/11/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	RPD Qual Limits
Volatile Organics by GC/MS - OWD	- Westborough	Lab Assoc	ciated sample(s): 06 QC Ba	tch ID: W	G1319454-	6 WG131945	4-7 Q	C Sample: L	195802	6-06 Client ID: B6-
Chloroethane	ND	100	160	160	Q	140	140	Q	55-138	13	20
1,1-Dichloroethene	ND	100	120	120		110	110		61-145	9	20
trans-1,2-Dichloroethene	24J	100	140	140	Q	130	130		70-130	7	20
Trichloroethene	1200	100	1300	100		1300	100		70-130	0	20
1,2-Dichlorobenzene	ND	100	100	100		100	100		70-130	0	20
1,3-Dichlorobenzene	ND	100	100	100		110	110		70-130	10	20
1,4-Dichlorobenzene	ND	100	100	100		100	100		70-130	0	20
Methyl tert butyl ether	ND	100	90	90		89	89		63-130	1	20
o/m-Xylene	ND	200	240	120		220	110		70-130	9	20
o-Xylene	ND	200	240	120		220	110		70-130	9	20
cis-1,2-Dichloroethene	620	100	720	100		690	70		70-130	4	20
Styrene	ND	200	240	120		240	120		70-130	0	20
Dichlorodifluoromethane	ND	100	100	100		98	98		36-147	2	20
Acetone	ND	100	160	160	Q	140	140		58-148	13	20
Carbon disulfide	ND	100	110	110		100	100		51-130	10	20
2-Butanone	ND	100	110	110		100	100		63-138	10	20
4-Methyl-2-pentanone	ND	100	96	96		94	94		59-130	2	20
2-Hexanone	ND	100	90	90		91	91		57-130	1	20
Bromochloromethane	ND	100	120	120		120	120		70-130	0	20
1,2-Dibromoethane	ND	100	120	120		110	110		70-130	9	20
1,2-Dibromo-3-chloropropane	ND	100	99	99		98	98		41-144	1	20
sopropylbenzene	ND	100	120	120		120	120		70-130	0	20
1,2,3-Trichlorobenzene	ND	100	82	82		97	97		70-130	17	20



Matrix Spike Analysis Batch Quality Control

Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

Lab Number:

L1958026

Report Date:

12/11/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Foun		Recovery / Qual Limits	RPD	RPD Qual Limits
Volatile Organics by GC/MS - OWD	- Westborough	Lab Assoc	ciated sample(s	s): 06 QC Ba	tch ID: WG13194	54-6 WG13194	54-7 QC Sample: l	.195802	6-06 Client ID: B6-
1,2,4-Trichlorobenzene	ND	100	91	91	99	99	70-130	8	20
Methyl Acetate	ND	100	110	110	100	100	70-130	10	20
Cyclohexane	ND	100	110	110	110	110	70-130	0	20
1,4-Dioxane	ND	5000	4700	94	4800	96	56-162	2	20
Freon-113	ND	100	130	130	120	120	70-130	8	20
Methyl cyclohexane	ND	100	130	130	120	120	70-130	8	20

	MS	S	MS	SD	Acceptance
Surrogate	% Recovery	Qualifier	% Recovery	Qualifier	Criteria
1,2-Dichloroethane-d4	152	Q	146	Q	70-130
4-Bromofluorobenzene	107		111		70-130
Dibromofluoromethane	129		122		70-130
Toluene-d8	106		106		70-130



Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

Lab Number: L1958026
Report Date: 12/11/19

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Information			Initial	Final	Temp			Frozen		
	Container ID	Container Type	Cooler	рН	pН			Seal	Date/Time	Analysis(*)
	L1958026-01A	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-01B	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-01C	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-02A	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-02B	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-02C	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-03A	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-03B	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-03C	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-04A	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-04B	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-04C	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-05A	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-05B	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-05C	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-06A	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-06A1	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-06A2	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-06B	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-06B1	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-06B2	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-06C	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)
	L1958026-06C1	Vial HCI preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)



Lab Number: L1958026

Report Date: 12/11/19

Project Name: 441 & 442 WAVERLY AVENUE

Project Number: 28012

Container Information				Final	Temp			Frozen		
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)	
L1958026-06C2	Vial HCl preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)	
L1958026-07A	Vial HCI preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)	
L1958026-07B	Vial HCl preserved	А	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)	
L1958026-07C	Vial HCl preserved	А	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)	
L1958026-08A	Vial HCl preserved	А	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)	
L1958026-08B	Vial HCI preserved	Α	NA		2.8	Υ	Absent		NYTCL-8260-R2(14)	



Project Name: Lab Number: 441 & 442 WAVERLY AVENUE L1958026

Report Date: Project Number: 28012 12/11/19

GLOSSARY

Acronyms

EPA

LOQ

MS

NP

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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

of PAHs using Solid-Phase Microextraction (SPME).

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

estimate of the concentration.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

Environmental Protection Agency.

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

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

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

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

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

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

using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the RPD

precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

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

associated field samples.

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

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

TEO - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound

list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026
Project Number: 28012 Report Date: 12/11/19

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

Terms

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

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

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

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

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

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

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

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

Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

Report Format: DU Report with 'J' Qualifiers



Project Name:441 & 442 WAVERLY AVENUELab Number:L1958026Project Number:28012Report Date:12/11/19

Data Qualifiers

 \boldsymbol{R} — Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

 ${\bf S}$ — Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 441 & 442 WAVERLY AVENUE Lab Number: L1958026
Project Number: 28012 Report Date: 12/11/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc.
Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

Published Date: 8/15/2019 9:53:42 AM

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Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; 4-Ethy

Ethyltoluene

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

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

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

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Document Type: Form Pre-Qualtrax Document ID: 08-113

	Westborough, MA 01581 8 Walkup Dr, TEL: 508-898-9220	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300	Service Centers Mahwah, NJ 07430: 35 Whitne Albany, NY 12205: 14 Walker Tonawanda, NY 14150: 275 C Project Information Project Name:	Way		Page 1 o	f)	Delive	Date Rec' in Lab	'd	THE REAL PROPERTY.	15\1°	4	ALPHA Job # L19 58026 Billing Information Same as Client Info	
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Geology

Hydrology

Remediation

Water Supply

January 17, 2020

Mr. Paul W. Scholar. Geologist Sterling Environmental Engineering, P.C. 24 Wade Road Latham, New York 12110

Re:

Data Validation Report

Waverly Avenue

December 2019 Ground Water Sampling Event

Dear Mr. Scholar:

The data usability summary report (DUSR) and QA/QC review are attached to this letter for the above referenced project sampling event. The data for Alpha Analytical Labs, lab number L1958026 are mostly acceptable with some issues that are identified and discussed in the validation summary. There are data that are flagged unusable (R) in the data pack. The reason for rejecting the data are outlined in the DUSR and QA/QC Review. The data is rejected based solely on the validation guidance criteria. The rejected data may be determined to be acceptable to the user based on additional information that is not contained in the data validation criteria.

A list of common data validation acronyms is attached to this letter to assist you interpreting the validation summaries. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist Sterling Environmental Engineering, P.C.

Sincerely, Alpha Geoscience

Donald Anné Senior Chemist

DCA:dca attachments

Data Validation Acronyms

AA Atomic absorption, flame technique

BHC Hexachlorocyclohexane BFB Bromofluorobenzene

CCB Continuing calibration blank
CCC Calibration check compound
CCV Continuing calibration verification

CN Cyanide

CRDL Contract required detection limit
CRQL Contract required quantitation limit
CVAA Atomic adsorption, cold vapor technique

DCAA 2,4-Dichlophenylacetic acid

DCB Decachlorobiphenyl

DFTPP Decafluorotriphenyl phosphine ECD Electron capture detector

FAA Atomic absorption, furnace technique

FID Flame ionization detector FNP 1-Fluoronaphthalene GC Gas chromatography

GC/MS Gas chromatography/mass spectrometry

GPC Gel permeation chromatography

ICB Initial calibration blank

ICP Inductively coupled plasma-atomic emission spectrometer

ICV Initial calibration verification IDL Instrument detection limit

IS Internal standard

LCS Laboratory control sample

LCS/LCSD Laboratory control sample/laboratory control sample duplicate

MSA Method of standard additions
MS/MSD Matrix spike/matrix spike duplicate

PID Photo ionization detector
PCB Polychlorinated biphenyl
PCDD Polychlorinated dibenzodioxins
PCDF Polychlorinated dibenzofurans

QA Quality assurance QC Quality control RF Response factor

RPD Relative percent difference RRF Relative response factor

RRF(number) Relative response factor at concentration of the number following

RT Retention time

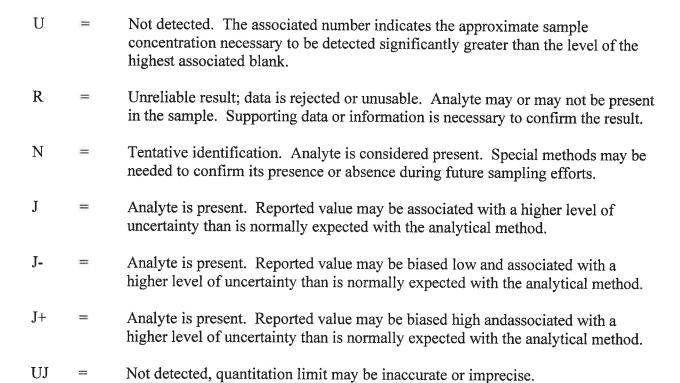
RRT Relative retention time SDG Sample delivery group

SPCC System performance check compound

TCX Tetrachloro-m-xylene %D Percent difference %R Percent recovery

%RSD Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II



Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.



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Data Usability Summary Report for Alpha Analytical Labs **SDG Number: L1958026**

6 Ground Water Samples, 1 Field Duplicate, and 1 Trip Blank Collected March 27 and 28, 2019

Prepared by: Donald Anné January 17, 2020

The data package contains the documentation as required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appears legible and complete. The data pack contains the results for the volatile analyses for 6 ground water samples, 1 field duplicate, and 1 trip blank.

The overall performances of the analyses are acceptable. Alpha Analytical Labs did fulfill the requirements of the analytical method.

The data are mostly acceptable with some minor issues that are identified in the accompanying data validation review. The following data were qualified:

- The "not detected" volatile results for 1,4-dioxane were qualified as "rejected, unusable" (R) for samples OSMW-4, GZ-22D, GZ-21D, GZ-23D, OSMW-3, DUP-12042019, and TB-12042019 because the RRF for 1,4-dioxane was below the allowable minimum in the associated continuing calibration.
- The positive volatile results for 1,2-dichloroethane and trans-1,2-dichloroethene were qualified as "estimated, biased high" (J+) in sample B6-OWD because 2 of 2 percent recoveries (%Rs) for dichloroethane and 1 of 2 %Rs for trans-1,2-dichloroethene were above QC limits in the aqueous MS/MSD.

All data that are not qualified rejected, unusable (R) are considered usable, with estimated (J+) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation review.



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Water Supply

QA/QC Review of Method 8260C Volatiles Data for Alpha Analytical Labs SDG Number: L1958026

6 Ground Water Samples, 1 Field Duplicate, and 1 Trip Blank Collected December 4, 2019

> Prepared by: Donald Anné January 17, 2020

Holding Times: Samples were analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The average RRFs for bromomethane, acetone, methyl acetate, 2-butanone, 4-methyl-2-pentanone, 2-hexanone, and 1,2-dibromo-3-chloropropane were below the method minimum, but not below 0.010 for VOA105 on 09-21-19. The average RRFs for bromomethane, acetone, 2-butanone, 4-methyl-2-pentanone, and 1,2-dibromo-3-chloropropane were below the method minimum, but not below 0.010 for VOA101 on 11-07-19. No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no average RRF is less than 0.010.

The average RRFs for target compounds were not below the allowable minimum (0.010 for all compounds except 0.001 for 1,4-dioxane) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The RRFs for 2-butanone and 4-methyl-2-pentanone were below the method minimums, but not below 0.010 on 12-09-19 (V01191209D02). The RRFs for bromomethane, acetone, methyl acetate, 2-butanone, 4-methyl-2-pentanone, and 2-hexanone were below the method minimums, but not below 0.010 on 12-10-19 (V05191210P01). The %Ds for bromomethane, acetone, and 2-butanone were above the method maximum on 12-09-19 (V01191209D02). The %D for dichlorodifluoromethane and chloromethane were above the method maximum on 12-10-19 (V05191210P01). No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no RRF is less than 0.010.

The RRF for 1,4-dioxane was below the allowable minimum (0.001) on 12-09-19 (V01191209D02). Positive results for 1,4-dioxane should be considered estimated, biased low (J-) and "not detected" rejected, unusable (R) in associated samples.

Page 1 of 2

The %Ds for bromomethane and 1,4-dioxane were above the allowable maximum (25%) on 12-09-19 (V01191209D02). The %Ds for dichlorodifluoromethane and chloromethane were above the allowable maximum (25%) on 12-10-19 (V05191210P01). Positive results for these compounds should be considered estimated (J) in associated samples.

Blanks: The analyses of the method and trip blanks reported target compounds as not detected.

<u>Internal Standard Area Summary</u>: The internal standard areas and retention times were within control limits.

<u>Surrogate Recovery</u>: The surrogate recoveries were within control limits for the ground water samples and trip blank.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for target compounds were below the allowable maximum, but 2 of 2 percent recoveries (%Rs) for carbon tetrachloride, 1,2-dichloroethane, 1,1,1-trichloroethane, and chloroethane, and 1 of 2 %Rs for trichlorofluoromethane, bromodichloromethane, trans-1,2-dichloroethene, acetone, and chloroform were above QC limits for aqueous MS/MSD sample B6-OWD. The positive results for 1,2-dichloroethane and trans-1,2-dichloroethene should be considered estimated, biased high (J+) in sample B6-OWD.

<u>Laboratory Control Sample</u>: The relative percent differences (RPDs) for applicable target compounds were below the allowable maximum and the percent recoveries (%Rs) were within QC limits for aqueous samples WG1319454-3 and WG1319454-4.

The RPD for bromomethane was above the allowable maximum and 2 of 2 %Rs for bromomethane were above QC limits for aqueous samples WG1318918-3 and WG1318918-4. Positive results for bromomethane should be considered estimated, biased high (J+) in associated aqueous samples.

- <u>Field Duplicates</u>: The relative percent differences for applicable compounds were below the allowable maximum (20%) for aqueous field duplicate pair GZ-21D/DUP-12042019 (attached table), as required.
- <u>Compound ID</u>: Checked compounds and surrogates were within GC/MS quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

Volatiles

<u>Calculations for Field Duplicate Relative Percent Difference (RPD)</u> SDG No. L1958026

S1=	GZ-21D	S2=	= DUP-12042019
Analyte 1,2-Dichloroethane Benzene Vinyl chloride trans-1,2-Dichloroethene cis-1,2-Dichloroethene	<u>\$1</u> 74 0.49 5.0 1.9 110	\$2 74 0.48 4.8 1.7 110	RPD (%) 0% NC 4% NC 0%

^{*} RPD is above the allowable maximum waters 20%.

Results are in units of ug/L.

Bold numbers were values that below the CRQL or above the high standard.

ND - Not detected.

NC - Not calculated, both results must be within the linear range for valid RPDs to be calculated.

Laboratory Control Sample Summary Form 3 Volatiles

Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

Matrix : WATER

LCS Sample ID : WG1318918-3 Analysis Date : 12/09/19 12:26 File ID : V01191209D02 CSD Sample ID : WG1318918-4 Analysis Date : 12/09/19 12:50 File ID : V01191209D03

	Laborator	y Control Sam	ple	Laborato	ry Control Dup	licate			
	True	Found	% R	True	Found	%R	RPD	Recovery	RPD
Parameter	(ug/l)	(ug/l)		(ug/l)	(ug/l)			Limits	Limit
Methylene chloride	10	8.7	87	10	9.4	94	8	70-130	20
1,1-Dichloroethane	10	8.8	88	10	9.8	98	11	70-130	20
Chloroform	10	9.0	90	10	9.9	99	10	70-130	20
Carbon tetrachloride	10	10	100	10	11	110	10	63-132	20
1,2-Dichloropropane	10	8.7	87	10	9.6	96	10	70-130	20
Dibromochloromethane	10	11	110	10	12	120	9	63-130	20
1,1,2-Trichloroethane	10	9.5	95	10	10	100	5	70-130	20
Tetrachloroethene	10	11	110	10	12	120	9	70-130	20
Chlorobenzene	10	9.9	99	10	11	110	11	75-130	20
Trichlorofluoromethane	10	9.1	91	10	10	100	9	62-150	20
1,2-Dichloroethane	10	9.7	97	10	11	110	13	70-130	20
1,1,1-Trichloroethane	10	9.2	92	10	10	100	8	67-130	20
Bromodichloromethane	10	9.2	92	10	10	100	8	67-130	20
trans-1,3-Dichloropropene	10	9.4	94	10	10	100	6	70-130	20
cis-1,3-Dichloropropene	10	8.3	83 .	10	9.1	91	9	70-130	20
Bromoform	10	11	110	10	12	120	9	54-136	20
1,1,2,2-Tetrachloroethane	10	10	100	10	11	110	10	67-130	20
Benzene	10	8.4	84	10	9.3	93	10	70-130	20
Toluene	10	9.9	99	10	11	110	l11	70-130	20
Ethylbenzene	10	9.4	94	10	11	110	16	70-130	20
Chloromethane	10	8.4	84	10	9.6	96	13	64-130	20
Bromomethane	10	15	150 Q	10	19	190 Q	24 0	39-139	20
Vinyl chloride	10	9.9	99	10	11	110	11	55-140	20
Chloroethane	10	10	100	10	12	120	18	55-138	20
1,1-Dichloroethene	10	8.9	89	10	9.9	99	11	61-145	20
trans-1,2-Dichloroethene	10	9.6	96	10	10	100	4	70-130	20



Laboratory Control Sample Summary Form 3 **Volatiles**

Client

: Sterling Environmental Eng : 441 & 442 WAVERLY AVENUE

: L1958026 Lab Number

Project Name

: WATER Matrix

Project Number: 28012

: WG1318918-3 LCS Sample ID LCSD Sample ID

Analysis Date: 12/09/19 12:26 Analysis Date: 12/09/19 12:50 : WG1318918-4

File ID: V01191209D02 File ID: V01191209D03

Laboratory Control Duplicate Laboratory Control Sample RPD RPD Recovery **Found** %R True Found %R True (ug/l) (ug/l) Limits Limit (ug/l) (ug/l) **Parameter** 70-130 9.9 8.9 Trichloroethene 70-130 1,2-Dichlorobenzene 70-130 1,3-Dichlorobenzene 70-130 1,4-Dichlorobenzene 63-130 9.3 Methyl tert butyl ether 70-130 p/m-Xylene 70-130 o-Xylene 9.2 70-130 8.4 cis-1,2-Dichloroethene 70-130 Styrene 36-147 Dichlorodifluoromethane 58-148 7.8 8.6 Acetone 51-130 9.9 Carbon disulfide 8.7 7.8 8.5 63-138 2-Butanone 59-130 8.7 9.5 4-Methyl-2-pentanone 57-130 8.2 9.3 2-Hexanone 70-130 9.7 Bromochloromethane 70-130 9.6 1.2-Dibromoethane 41-144 9.1 1,2-Dibromo-3-chloropropane 70-130 Isopropylbenzene 70-130 1,2,3-Trichlorobenzene 70-130 1,2,4-Trichlorobenzene 70-130 9.0 8.2 Methyl Acetate 70-130 Cyclohexane 9.1 56-162 1,4-Dioxane 70-130 Freon-113 8.8 9.6 70-130 8.4 Methyl cyclohexane



Matrix Spike Sample Summary Form 3 Volatiles

Client : Sterling Environmental Eng
Project Name : 441 & 442 WAVERLY AVENUE
Client Sample ID : B6-OWD

Client Sample ID : B6-OWD
Lab Sample ID : L1958026-06
Matrix Spike : WG1319454-6
Matrix Spike Dup : WG1319454-7

Lab Number : L1958026
Project Number : 28012

Matrix : WATER
Analysis Date : 12/10/19 21:06
MS Analysis Date : 12/11/19 02:52
MSD Analysis Date : 12/11/19 03:15

		Matrix Sp	ike Sample		Matrix Spi	ke Duplicate				
	Sample	Spike	Spike		Spike	Spike				
	Conc.	Added	Conc.	%R	Added	Conc.	%R	RPD	Recovery	RPD
Parameter	(ug/l)	(ug/l)	(ug/l)		(ug/l)	(ug/l)			Limits	Limit
Methylene chloride	ND	100	110	110	100	100	100	10	70-130	20
1,1-Dichloroethane	ND	100	120	120	100	110	110	9	70-130	20
Chloroform	ND	100	140	140 Q	100	120	120	15	70-130	20
Carbon tetrachloride	ND	100	160	160 Q	100	150	150 Q	6	63-132	20
1,2-Dichloropropane	ND	100	100	100	100	100	100	0	70-130	20
Dibromochloromethane	ND	100	120	120	100	120	120	0	63-130	20
1,1,2-Trichloroethane	ND	100	110	110	100	110	110	0	70-130	20
Tetrachloroethene	520	100	620	100	100	600	80	3	70-130	20
Chlorobenzene	ND	100	110	110	100	100	100	10	75-130	20
Trichlorofluoromethane	ND	100	170	170 Q	100	150	150	13	62-150	20
1,2-Dichloroethane	12	100	170	158 Q	100	150	138 Q	13	70-130	20
1,1,1-Trichloroethane	ND	100	160	160 Q	100	140	140 Q	13	67-130	20
Bromodichloromethane	ND	100	140	140 Q	100	120	120	15	67-130	20
trans-1,3-Dichloropropene	ND	100	98	98	100	95	95	3	70-130	20
cis-1,3-Dichloropropene	ND	100	100	100	100	99	99	1	70-130	20
Bromoform	ND	100	110	110	100	110	110	0	54-136	20
1,1,2,2-Tetrachloroethane	ND	100	100	100	100	100	100	0	67-130	20
Benzene	ND	100	110	110	100	100	100	10	70-130	20
Toluene	ND	100	110	110	100	100	100	10	70-130	20
Ethylbenzene	ND	100	120	120	100	110	110	9	70-130	20
Chloromethane	ND	100	73	73	100	73	73	0	64-130	20
Bromomethane	ND	100	110	110	100	120	120	9	39-139	20



Matrix Spike Sample Summary Form 3 Volatiles

Client : Sterling Environmental Eng
Project Name : 441 & 442 WAVERLY AVENUE

Client Sample ID : B6-OWD
Lab Sample ID : L1958026-06

Matrix Spike : WG1319454-6 Matrix Spike Dup : WG1319454-7 Lab Number : L1958026 Project Number : 28012

Matrix : WATER
Analysis Date : 12/10/19 21:06
MS Analysis Date : 12/11/19 02:52
MSD Analysis Date : 12/11/19 03:15

		Matrix Sp	ike Sample		Matrix Spi	ke Duplicate				
	Sample	Spike	Spike		Spike	Spike				
	Conc.	Added	Conc.	%R	Added	Conc.	%R	RPD	Recovery	RPD
Parameter	(ug/l)	(ug/l)	(ug/l)		(ug/l)	(ug/l)			Limits	Limi
Vinyl chloride	ND	100	95	95	100	94	94	1	55-140	20
Chloroethane	ND	100	160	160 Q	100	140	140 0	13	55-138	20
1,1-Dichloroethene	ND	100	120	120	100	110	110	9	61-145	20
trans-1,2-Dichloroethene	24J	100	140	140 Q	100	130	130	7	70-130	20
Trichloroethene	1200	100	1300	100	100	1300	100	0	70-130	20
1,2-Dichlorobenzene	ND	100	100	100	100	100	100	0	70-130	20
1,3-Dichlorobenzene	ND	100	100	100	100	110	110	10	70-130	20
1,4-Dichlorobenzene	ND	100	100	100	100	100	100	0	70-130	20
Methyl tert butyl ether	ND	100	90	90	100	89	89	1	63-130	20
o/m-Xylene	ND	200	240	120	200	220	110	9	70-130	20
o-Xylene	ND	200	240	120	200	220	110	9	70-130	20
cis-1,2-Dichloroethene	620	100	720	100	100	690	70	4	70-130	20
Styrene	ND	200	240	120	200	240	120	0	70-130	20
Dichlorodifluoromethane	ND	100	100	100	100	98	98	2	36-147	20
Acetone	ND	100	160	160 Q	100	140	140	13	58-148	20
Carbon disulfide	ND	100	110	110	100	100	100	10	51-130	20
2-Butanone	ND	100	110	110	100	100	100	10	63-138	20
4-Methyl-2-pentanone	ND	100	96	96	100	94	94	2	59-130	20
2-Hexanone	ND	100	90	90	100	91	91	1	57-130	20
Bromochloromethane	ND	100	120	120	100	120	120	0	70-130	20
1,2-Dibromoethane	ND	100	120	120	100	110	110	9	70-130	20
1,2-Dibromo-3-chloropropane	ND	100	99	99	100	98	98	1	41-144	20



Matrix Spike Sample Summary Form 3 Volatiles

Client : Sterling Environmental Eng
Project Name : 441 & 442 WAVERLY AVENUE

Client Sample ID : B6-OWD
Lab Sample ID : L1958026-06
Matrix Spike : WG1319454-6
Matrix Spike Dup : WG1319454-7

Lab Number : L1958026 Project Number : 28012 Matrix : WATER

Matrix : WATER
Analysis Date : 12/10/19 21:06
MS Analysis Date : 12/11/19 02:52
MSD Analysis Date : 12/11/19 03:15

		Matrix Sp	ike Sample		Matrix Spi	ke Duplicate				
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Isopropylbenzene	ND	100	120	120	100	120	120	0	70-130	20
1,2,3-Trichlorobenzene	ND	100	82	82	100	97	97	17	70-130	20
1,2,4-Trichlorobenzene	ND	100	91	91	100	99	99	8	70-130	20
Methyl Acetate	ND	100	110	110	100	100	100	10	70-130	20
Cyclohexane	ND	100	110	110	100	110	110	0	70-130	20
1,4-Dioxane	ND	5000	4700	94	5000	4800	96	2	56-162	20
Freon-113	ND	100	130	130	100	120	120	8	70-130	20
Methyl cyclohexane	ND	100	130	130	100	120	120	8	70-130	20



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012
Instrument ID : VOA105 Ical Ref : ICAL16159

Calibration dates : 09/21/19 02:10 09/21/19 06:00

Calibration Files

L11 =V05190921A04.d L1 =V05190921A06.d L2 =V05190921A08.d L3 =V05190921A09.d L4 =V05190921A10.d

L6 =V05190921A11.d L8 =V05190921A12.d L10 =V05190921A13.d

		Compound		L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene										
2)	ΤP	Dichlorodifluoromethane		0.257	0.220	0.260	0.252	0.246	0.240	0.238	0.245	5.64
3)	TP	Chloromethane		0.303	0.227	0.267	0.230	0.225	0.230	0.239	0.246	11.83
4)	TC	Vinyl chloride	0.210	0.214	0.188	0.228	0.218	0.221	0.223	0.224	0.216	5.75
5)	TP	Bromomethane		0.098	0.074	0.102	0.086	0.101	0.111	0.123	0.099#	16.13
6)	TP	Chloroethane		0.162	0.130	0.143	0.127	0.124	0.123	0.119	0.133	11.42
7)	TP	Trichlorofluoromethane		0.372	0.328	0.390	0.382	0.368	0.352	0.345	0.362	5.99
8)	TP	Ethyl ether		0.081	0.071	0.086	0.073	0.073	0.074	0.074	0.076	7.10
10)	TC	1,1-Dichloroethene		0.189	0.166	0.201	0.188	0.188	0.192	0.194	0.188	5.85
11)	TP	Carbon disulfide		0.487	0.424	0.559	0.529	0.549	0.579	0.592	0.531	11.05
12)	TP	Freon-113		0.204	0.187	0.210	0.210	0.209	0.207	0.208	0.205	3.92
14)	TP	Acrolein		0.015	0.015	0.023	0.021	0.021	0.022	0.022	0.020#	16.60
15)	TP	Methylene chloride		0.254	0.206	0.233	0.188	0.188	0.193	0.192	0.208	12.40
17)	TP	Acetone			0.038	0.039	0.033	0.032	0.033	0.034	0.035	8.31
18)	TP	trans-1,2-Dichloroethene		0.210	0.188	0.231	0.202	0.204	0.209	0.211	0.208	6.12
19)	TP	Methyl acetate		0.088	0.071	0.094	0.080	0.082	0.085	0.084	0.083	8.58
20)	TP	Methyl tert-butyl ether		0.380	0.359	0.463	0.400	0,408	0.425	0.424	0.408	8.29
21)	TP	tert-Butyl alcohol		0.010	0.008	0.009	0.009	0.009	0.010	0.011	0.009#	12.18
22)	TP	Diisopropyl ether		0.623	0.569	0.725	0.637	0.650	0.656	0.645	0.644	7.20
23)	TP	1,1-Dichloroethane		0.440	0.384	0.462	0.396	0.398	0.403	0.402	0.412	6.79
24)	ΤP	Halothane		0.149	0.133	0.163	0.157	0.161	0.165	0.168	0.157	7.68
25)	TP	Acrylonitrile		0.027	0.031	0.041	0,*,035	0.036	0.037	0.038	0.035#	12.75
26)	TP	Ethyl tert-butyl ether		0.514	0.468	0.609	0.542	0,550	0.566	0.562	0.544	8.15
27)	TP	Vinyl acetate		0.338	0.297	0.453	0 392	0.395	0.404	0.401	0.383	13.18
28)	TP	cis-1,2-Dichloroethene		0.225	0.201	0.257	0.208	0,213	0.220	0.221	0.221	8.21
29)	TP	2,2-Dichloropropane		0.289	0.268	0.345	0.349	0.349	0.355	0.355	0.330	10.84
30)	TP	Bromochloromethane		0.101	0.088	0.106	0.092	0.093	0.095	0.090	0.095	6.82
31)	TP	Cyclohexane		0.321	0.304	0.372	0.390	0.388	0.391	0.389	0.365	10.09
32)	TC	Chloroform		0.465	0.391	0.472	0.388	0.391	0.394	0.389	0.413	9.25
33)	TP	Ethyl acetate		0.111	0.098	0.126	0.114	0 115	0.117	0.117	0.114	7.47
34)	TP	Carbon tetrachloride	0.267	0.285	0.266	0.361	0.361	0.367	0.365	0.362	0.329	14.39
35)	TP	Tetrahydrofuran		0.032	0.027	0.037	0.033	0.032	0.033	0.032	0.032#	9.25
36)	S	Dibromofluoromethane	0.268	0.271	0,280	0.277	0.277	0.271	0.266	0.262	0.271	2.26
37)	TP	1,1,1-Trichloroethane		0.387	0.345	0.445	0.408	0.411	0.410	0.406	0.402	7.54
39)	TP	2-Butanone		0.058	0.040	0.053	0.046	0.047	0.048	0.048	0.049#	11.46
40)	TP	1,1-Dichloropropene		0.285	0.265	0.319	0.312	0.317	0.318	0.322	0.306	7.09



: L1958026

: ICAL16159

: Sterling Environmental Eng Lab Number Client : 441 & 442 WAVERLY AVENUE : VOA105 Project Number : 28012 Project Name Ical Ref

Instrument ID

Calibration dates : 09/21/19 02:10 09/21/19 06:00

Calibration Files

L11 =V05190921A04.d L1 =V05190921A06.d L2 =V05190921A08.d L3 =V05190921A09.d L4 =V05190921A10.d

L6 =V05190921A11.d L8 =V05190921A12.d L10 =V05190921A13.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
41) TP	Benzene					0.770	0.787	0.802	0.804	0.800	6.22
42) TP	tert-Amyl methyl ether		0.352	0.329	0.461	0.406	0.421	0.440	0.442	0.407	12.09
43) S	1,2-Dichloroethane-d4	0.351	0.348	0.360	0.375	0.347	0.340	0.323	0.319	0.345	5.32
44) TP	1,2-Dichloroethane		0.348	0.300	0.360	0.293	0.287	0.286	0.279	0.307	10.62
47) TP	Methyl cyclohexane		0.318	0.294	0.346	0.372	0.379	0.384	0.391	0.355	10.35
48) TP	Trichloroethene	0.280	0.289	0.214	0.252	0.224	0.228	0.232	0.232	0.244	11.17
50) TP	Dibromomethane		0.097	0.098	0.122	0.102	0.103	0.107	0.106	0.105	8.01
51) TC	1,2-Dichloropropane		0.192	0.178	0.226	0.187	0.193	0.199	0.199	0.196	7.51
54) TP	Bromodichloromethane		0.241	0.237	0.328	0.276	0.294	0.300	0.300	0.282	11.82
57) TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	5.09
58) TP	cis-1,3-Dichloropropene		0.212	0.226	0.335	0.305	0.324	0.337	0.336	0.297	18.29
59) I	Chlorobenzene-d5			 IS	STD						
60) S	Toluene-d8	1.299	1.301	1.333	1.305	1.319	1.299	1.290	1.301	1.306	1.05
61) TC	Toluene		0.729	0.678	0.782	0.683	0.686	0.702	0.710	0.710	5.14
62) TP	4-Methyl-2-pentanone			0.034	0.054	0.050	0.052	0.054	0.055	0.0501	15.69
63) TP	Tetrachloroethene		0.314	0.287	0.340	0.322	0.326	0.331	0.335	0.322	5.48
65) TP	trans-1,3-Dichloropropene		0.234	0.247	0.383	0.358	0.376	0.390	0.395	*L	0.9991
67) TP	Ethyl methacrylate			0.136	0.226	0.221	0.227	0.236	0.237	0.214	18.14
68) TP	1,1,2-Trichloroethane		0.154	0.143	0.176	0.149	0.148	0.152	0.153	0.153	6.94
69) TP	Chlorodibromomethane		0.181	0.166	0.234	0.210	0.218	0.225	0.230	0.209	12.49
70) TP	1,3-Dichloropropane		0.354	0.313	0.373	0.332	0.331	0.341	0.339	0.340	5.60
71) TP	1,2-Dibromoethane		0.141	0.149	0.195	0.176	0.180	0.187	0.188	0.174	11.88
72) TP	2-Hexanone			0.056	0.092	0.090	0.096	0.100	0.101	0.089#	18.80
73) TP	Chlorobenzene		0.822	0.736	0.861	0.729	0.744	0.761	0.754	0.773	6.44
74) TC	Ethylbenzene		1.386	1.297	1.562	1.392	1.412	1.428	1.298	1.397	6.43
75) TP	1,1,1,2-Tetrachloroethane		0.240	0.241	0.296	0.271	0.278	0.284	0.284	0.271	8.11
76) TP	p/m Xylene		0.468	0.449	0.554	0.499	0.506	0.512	0.506	0.499	6.73
77) TP	o Xylene		0.402	0.411	0.516	0.461	0.468	0.475	0.466	0.457	8.53
78) TP	Styrene		0.588	0.645	0.837	0.743	0.766	0.784	0.630	0.713	12.94
79) I	1,4-Dichlorobenzene-d4			I	STD						
80) TP	Bromoform		0.164	0.170	0.248	0.234	0.256	0.274	0.287	*Q	0.9996
82) TP	Isopropylbenzene		2.269	2.262	2.720	2.576	2.635	2.685	2.352	2.500	7.97
83) S	4-Bromofluorobenzene	0.988	0.990	1.010	0.983	0.973	0.975	0.966	0.981	0.983	1.37
84) TP	Bromobenzene		0.635	0.575	0.645	0.568	0.584	0.606	0.613	0.604	4.90
85) TP	n-Propylbenzene		2.998	2.853	3.239	3.071	3.112	3.103	2.316	2.956	10.34
86) TP	1,4-Dichlorobutane	-	0.589	0.543	0.654	0.563	0.565	0.584	0.587	0.583	6.05



: Sterling Environmental Eng Client : 441 & 442 WAVERLY AVENUE : VOA105 Project Name

: L1958026 Lab Number Project Number : 28012 Ical Ref : ICAL16159

Instrument ID

Calibration dates : 09/21/19 02:10 09/21/19 06:00

Calibration Files

L11 =V05190921A04.d L1 =V05190921A06.d L2 =V05190921A08.d L3 =V05190921A09.d L4 =V05190921A10.d

L6 =V05190921A11.d L8 =V05190921A12.d L10 =V05190921A13.d

	Compound	L11	L1	L2	L3	L4	L6	Г8	L10	Avg	%RSD	
87) TP	1,1,2,2-Tetrachloroethane			0.309				0.339	0.349	0.335	6.56	
88) TP	4-Ethyltoluene		2.148	2.175	2.575	2.380	2.454	2.504	2.153	2.341	7.71	
89) TP	2-Chlorotoluene		1.903	1.836	2.027	1.732	1.845	1.892	1.871	1.872	4.73	
90) TP	1,3,5-Trimethylbenzene		1.946	1.968	2.318	2.113	2.161	2.229	1.972	2.101	6.89	
91) TP	1,2,3-Trichloropropane		0.372	0.320	0.358	0.301	0.300	0.312	0.328	0.327	8.54	
92) TP	trans-1,4-Dichloro-2-b			0.057	0.086	0.083	0.097	0.106	0.109	*L	0.9959	
93) TP	4-Chlorotoluene		1.970	1.839	2.101	1.850	1.886	1.935	1.851	1.919	4.90	
94) TP	tert-Butylbenzene		1.586	1.600	1.930	1.860	1.890	1.940	1.858	1.809	8.34	
97) TP	1,2,4-Trimethylbenzene		1.705	1.863	2.265	2.073	2.116	2.175	1.942	2.020	9.61	
98) TP	sec-Butylbenzene		2.130	2.135	2.474	2.449	2.509	2.552	2.096	2.335	8.72	
99) TP	p-Isopropyltoluene		1.751	1.912	2.328	2.261	2.323	2.369	2.020	2.138	11.36	
100) TP	1,3-Dichlorobenzene		1.10	9 1.05	5 1.24	6 1.05	5 1.09	9 1.14	1 1.15	0 1.122	5.89	
101) TP	1,4-Dichlorobenzene		1.29	0 1.12	2 1.25	7 1.06	3 1.09	8 1.13	5 1.14	6 1.159	7.20	
102) TP	p-Diethylbenzene		0.99	6 1.00	6 1.28	3 1.25	0 1.28	6 1.33	8 1.33	8 1.214	12.26 7.48 5.82 19.89	12
103) TP	n-Butylbenzene		1.77	2 1.73	6 2.02	6 1.97	9 2.04	1 2.07	3 1.79	7 1.918	7.48	600
104) TP	1,2-Dichlorobenzene		0.97	4 0.91	5 1.08	8 0.93	0 0.94	6 0.98	7 0.98	6 0.975	5.82	2=0
105) TP	1,2,4,5-Tetramethylben		1.09	4 1.232	2 1.84	2 1.77	1 1.83	5 1.89	1 1.69	6 1.623	19.89	
106) TP	1,2-Dibromo-3-chloropr		0.02	6 0.02	9 0.03	9 0.03	9 0.04	4 0.04	7 0.05	0 *2	0.9996	
107) TP	1,3,5-Trichlorobenzene		0.61	2 0.638	8 0.74	2 0.67	5 0.70	2 0.72	8 0.74	1 0.691	7.46	
108) TP	Hexachlorobutadiene		0.28	8 0.25	1 0.26	0.27	1 0.28	1 0.29	7 0.30	6 0.280	6.67	
109) TP	1,2,4-Trichlorobenzene		0.47	8 0.45	7 0.55	6 0.52	3 0.54	5 0.58	2 0.58	6 0.532	9.31	
110) TP	Naphthalene		0.55	3 0.50	5 0.76	7 0.77	0 0.78	7 0.85	7 0.87	4 0.730	19.77	
111) TP	1,2,3-Trichlorobenzene		0.37	9 0.332	2 0.38	0 0.36	3 0.37	0 0.40	1 0.41	0 0.376	6.81	



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012
Instrument ID : VOA101 Ical Ref : ICAL16277

Calibration dates : 11/07/19 13:20 11/07/19 16:29

Calibration Files

L1 =V01191107A04.D L2 =V01191107A07.D L3 =V01191107A08.D L4 =V01191107A09.D L6 =V01191107A10.D

L8 =V01191107A11.D L10 =V01191107A12.D

		Compound	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD	
1) I	[Fluorobenzene				STD						
2) T	ΓP	Dichlorodifluoromethane	0.124	0.152	0.138	0.149	0.141	0.147	0.144	0.142	6.36	(uu)
3) I	ΓP	Chloromethane	0.192	0.236	0.213	0.231	0.225	0.243	0.250	0.227	8.65	(2,01)
4) T	ГC	Vinyl chloride	0.175	0.246	0.227	0.248	0.229	0.241	0.235	0.229	10.89	ave = (0,044)
5) I	ΓP	Bromomethane	0.034	0.024	0.021	0.040	0.062	0.084		•0	0.9995	
6) I	ГP	Chloroethane	0.151	0.174	0.158	0.162	0.143	0.142	0.128	0.151	9.88	
7) I	ГP	Trichlorofluoromethane	0.292	0.361	0.327	0.352	0.327	0.343	0.334	0.334	6.75	
8) T	ΓP	Ethyl ether	0.084	0.111	0.103	0.104	0.102	0.100	0.098	0.100	8.42	
10) 1	ГC	1,1-Dichloroethene	0.165	0.231	0.209	0.222	0.210	0.214	0.208	0.209	10.04	(,0)
11) T	ГP	Carbon disulfide	0.570	0.621	0.549	0.584	0.548	0.568	0.550	0.570	4.59	(011)
12) I	ΓP	Freon-113	0.174	0.230	0.208	0.229	0.210	0.217	0.210	0.211	8.81	(0,
13) T	ΓP	Iodomethane		0.088	0.124	0.195	0.181	0.201	0.197	*L	0.9972	ave (o.dig)
14) T	ГP	Acrolein		0.022	0.024	0.024	0.026	0.025	0.026	0.025#	6.69	ave
15) 1	ΓP	Methylene chloride	0.258	0.253	0.230	0.233	0.222	0.226	0.219	0.235	6.53	7
16) 1	ΓP	Isopropyl alcohol		0.007	0.008	0.008	0.009	0.009	0.009	0.008#	7-86	
17) 1	ΓP	Acetone		0.075	0.047	0.044	0.042	0,042	0.042	*L	1.0000	
18) 7	ΓP	trans-1,2-Dichloroethene	0.196	0.239	0.216	0.228	0.217	0.225	0.216	0.220	6.08	
19) 7	ΓP	Methyl acetate	0.130	0.144	0.130	0.122	0.125	0.122	0.122	0.128	6.22	
20) 1	ГP	Methyl tert-butyl ether	0.447	0.523	0.479	0.477	0.477	0.474	0.468	0.478	4.75	
21) 1	ΓP	tert-Butyl alcohol		0.017	0.012	0.012	0.012	0.012	0.012	0.013#	14.13	
22) 1	ΓP	Diisopropyl ether	0.923	1.042	0.968	0.982	0.951	0.961	0.941	0.967	3.95	
23) 1	ГP	1,1-Dichloroethane	0.446	0.566	0.512	0.526	0.496	0.511	0.494	0.507	7.14	
24) 1	ΓP	Halothane	0.134	0.187	0.172	0.188	0.178	0.185	0.181	0.175	10.81	
25) 7	ΓP	Acrylonitrile		0.050	0.054	0.051	0.054	0.053	0.053	0.053	3.02	
26) 1	ΓP	Ethyl tert-butyl ether	0.685	0.792	0.744	0.758	0.749	0.756	0.743	0.747	4.27	
27) 1	ſP	Vinyl acetate	0.422	0.510	0.500	0.500	0.520	0.519	0.525	0.499	7.12	
28) 7	ΤP	cis-1,2-Dichloroethene	0.229	0.295	0.272	0.281	0.267	0.275	0.267	0.269	7.56	
29) 1	ΤP	2,2-Dichloropropane	0.323	0.386	0.351	0.372	0.360	0.370	0.362	0.360	5.56	
30) 1	ΤP	Bromochloromethane	0.082	0.111	0.101	0.102	0.093	0.091	0.086	0.095	10.68	
31) 7	ΤP	Cyclohexane	0.375	0.554	0.487	0.544	0.511	0.533	0.519	0.503	12.08	
32) 1	ГC	Chloroform	0.392	0.467	0.441	0.460	0.445	0.456	0.447	0.444	5.56	
33) 1	ΤP	Ethyl acetate	0.136	0.148	0.173	0.169	0.173	0.169	0.171	0.163	8.96	
34)	TP	Carbon tetrachloride	0.214	0.314	0.282	0.323	0.321	0.344	0.343	0.306	14.87	
35) 7	TP	Tetrahydrofuran	0.037	0.051	0.048	0.048	0.049	0.045	0.047	0.046#	9.91	
36) 8	S	Dibromofluoromethane	0.252	0.250	0.257	0.252	0.254	0.253	0.255	0.253	0.85	
37) 1	TP	1,1,1-Trichloroethane	0.313	0.411	0.370	0.407	0.390	0.407	0.398	0.385	8.96	



Client : Sterling Environmental Eng Lab Number : L1958026
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L8 =V01191107A11.D L10 =V01191107A12.D

	Compound	Ь1	L2	L3	L4	L6	L8	L10	Avg	%RSD	
	2-Butanol			0.010	0.010	0.011	0.012	0.011	0.010#	12.62	
39) TP	2-Butanone		0.098	0.071	0.068	0.068	0.066	0.067	0.073#	16.68	
40) TP	1,1-Dichloropropene	0.308	0.374	0.331	0.360	0.346	0.358	0.349	0.347	6.25	
41) TP	Benzene	0.906	1.067	0.953	0.994	0.957	0.984	0.947	0.973	5.19	
42) TP	tert-Amyl methyl ether	0.478	0.570	0.535	0.532	0.546	0.549	0.543	0.536	5.28	
43) S	1,2-Dichloroethane-d4	0.278	0.284	0.280	0.268	0.277	0.275	0.296	0.279	3.11	
44) TP	1,2-Dichloroethane	0.289	0.320	0.292	0.296	0.295	0.297	0.294	0.298	3.37	
46) TP	2-Methyl-2-butanol		0.008	0.009	0.009	0.010	0.010	0.010	0.009#	7.52	
47) TP	Methyl cyclohexane	0.329	0.432	0.383	0.431	0.411	0.419	0.404	0.401	8.95	
48) TP	Trichloroethene	0.210	0.271	0.240	0.259	0.251	0.258	0.250	0.248	7.81	
50) TP	Dibromomethane	0.100	0.122	0.115	0.117	0.118	0.119	0.119	0.116	6.09	
51) TC	1,2-Dichloropropane	0.228	0.294	0.264	0.276	0.267	0.272	0.267	0.267	7.49	
52) TP	4-penten-2-ol			0.006	0.006	0.008	0.008	0.009	0.007#	18.92	
53) TP	2-Chloroethyl vinyl ether			0.016	0.015	0.017	0.015	0.015	0.016#	5.64	
54) TP	Bromodichloromethane	0.229	0.292	0.283	0.307	0.309	0.318	0.317	0.294	10.62	
57) TP	1,4-Dioxane	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	6.25	
58) TP	cis-1,3-Dichloropropene	0.308	0.369	0.357	0.382	0.381	0.385	0.376	0.366	7.40	
59) I	Chlorobenzene-d5			IS	STD						
60) S	Toluene-d8	1.373	1.354	1.347	1.335	1.308	1.334	1.364	1.345	1.60	
61) TC	Toluene	0.697	0.847	0.758	0.798	0.751	0.780	0.769	0.771	5.94	
62) TP	4-Methyl-2-pentanone		0.069	0.069	0.070	0.073	0.072	0.074	0.071	3.37	
63) TP	Tetrachloroethene	0.256	0.311	0.282	0.310	0.284	0.299	0.290	0.290	6.61	
65) TP	trans-1,3-Dichloropropene	0.281	0.354	0.362	0.383	0.389	0.400	0.403	0.367	11.49	
66) TP	4-Methyl-2-pentanol		0.026	0.028	0.031	0.037	0.038	0.039	0.033#	16.87	
67) TP	Ethyl methacrylate	0.202	0.258	0.261	0.268	0.276	0.274	0.277	0.260	10.13	
68) TP	1,1,2-Trichloroethane	0.158	0.194	0.178	0.178	0.178	0.178	0.180	0.178	5.92	
69) TP	Chlorodibromomethane	0.146	0.199	0.197	0.220	0.233	0.244	0.249	0.213	16.76	
70) TP	1,3-Dichloropropane	0.354	0.394	0.369	0.365	0.367	0.369	0.371	0.370	3.26	
71) TP	1,2-Dibromoethane	0.156	0.201	0.187	0.194	0.197	0.200	0.203	0.191	8.65	
72) TP	2-Hexanone	0.091	0.128	0.124	0.127	0.134	0.133	0.135	0.125	12.34	
73) TP	Chlorobenzene	0.742	0.852	0.765	0.817	0.785	0.802	0.781	0.792	4.53	
74) TC	Ethylbenzene	1.306	1.602	1.413	1.539	1.465	1.516	1.478	1.474	6.47	
75) TP	1,1,1,2-Tetrachloroethane	0.180	0.251	0.245	0.268	0.271	0.282	0.280	0.254	13.94	
76) TP	p/m Xylene	0.488	0.617	0.544	0.584	0.555	0.565	0.545	0.557	7.13	
77) TP	o Xylene	0.452	0.578	0.509	0.536	0.515	0.527	0.506	0.518	7.35	
78) TP	Styrene	0.705	0.908	0 837	0 892	0 868	0 887	0 850	0.850	8.02	



Client : Sterling Environmental Eng
Project Name : 441 & 442 WAVERLY AVENUE
Instrument ID : VOA101 Lab Number : L1958026 Project Number : 28012 Ical Ref : ICAL16277

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L8 =V01191107A11.D L10 =V01191107A12.D

		Compound	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD	
79)		1,4-Dichlorobenzene-d4										
80)	TP	Bromoform		0.162	0.175	0.198	0.214	0.229	0.234	0.202	14.46	
82)	TP	Isopropylbenzene	2.236	2.986	2.554	2.733	2.537	2.680	2.608	2.619	8.66	
83)	s	4-Bromofluorobenzene	1.044	1.057	1.032	1.019	1.006	1.037	1.045	1.034	1.65	
84)	TP	Bromobenzene	0.490	0.624	0.532	0.551	0.516	0.537	0.523	0.539	7.79	
85)	TP	n-Propylbenzene	2.568	3.464	2.965	3.191	2.985	3.098	3.003	3.039	8.90	
86)	TP	1,4-Dichlorobutane	0.675	0.783	0.709	0.707	0.705	0.719	0.730	0.718	4.61	
87)	TP	1,1,2,2-Tetrachloroethane	0.391	0.412	0.397	0.401	0.409	0.415	0.418	0.406	2.42	
88)	TP	4-Ethyltoluene	2.036	2.683	2.335	2.519	2.342	2.455	2.394	2.395	8.30	
89)	TP	2-Chlorotoluene	1.763	2.205	1.892	2.015	1.885	2.009	1.947	1.959	7.06	
90)	TP	1,3,5-Trimethylbenzene	1.795	2.312	1.983	2.145	1.992	2.090	2.034	2.050	7.77	
91)	TP	1,2,3-Trichloropropane	0.345	0.392	0.371	0.350	0.352	0.356	0.354	0.360	4.56	
92)	TP	trans-1,4-Dichloro-2-b		0.123	0.108	0.119	0.130	0.131	0.138	0.125	8.23	
93)	ŤΡ	4-Chlorotoluene	1.617	2.035	1.789	1.910	1.796	1.902	1.878	1.847	7.08	
94)	TP	tert-Butylbenzene	1.442	1.922	1.679	1.825	1.686	1.777	1.734	1.724	8.71	
97)	TP	1,2,4-Trimethylbenzene	1.750	2.236	1.969	2.145	2.009	2.111	2.065	2.041	7.63	
98)	TP	sec-Butylbenzene	1.878	2.451	2.189	2.422	2.260	2.370	2.317	2.270	8.60	
99)	TP	p-Isopropyltoluene	1.568	2.220	1.958	2.178	2.032	2.124	2.080	2.023	10.82	
100)	TP	1,3-Dichlorobenzene	0.893	3 1.185	1.033	3 1.112	2 1.069	9 1.110	1.08	8 1.070	8.50	(20)
101)	TP	1,4-Dichlorobenzene	0.970	1.194	1.043	3 1.114	1 1.06	7 1.105	5 1.09	2 1.083	6.37	(2.0)
102)	TP	p-Diethylbenzene	0.848	3 1.194	1.064	1.185	5 1.12	5 1.180	0 1.15	9 1.108	11.12	30
103)	TP	n-Butylbenzene	1.299	1.864	1.638	1.825	5 1.762	2 1.84	1 1.81	0 1.720	11.63	ans a
104)	TP	1,2-Dichlorobenzene	0.844	1.050	0.928	0.971	1 0.95	7 0.988	0.96	5 0.958	6.53	
105)	TP	1,2,4,5-Tetramethylben	1.23	5 1.669	1.554	1.748	3 1.69	7 1.76	7 1.70	2 1.625	11.35	
106)	TP	1,2-Dibromo-3-chloropr		0.028	0.041	0.046	6 0.052	2 0.053	3 0.05	5 *L 🥳	0.9984	
107)	ΤP	1,3,5-Trichlorobenzene	0.413	L 0.573	0.499	0.550	0.53	0.559	9 0.53	2 0.523	10.44	
108)	TP	Hexachlorobutadiene	0.035	0.147	0.127	0.154	4 0.14	0.15	4 0.15	1 *L	0.9985	
109)	TP	1,2,4-Trichlorobenzene	0.365	0.478	0.433	0.46	6 0.46	1 0.47	7 0.46	6 0.449	8.94	
110)	TP	Naphthalene	0.870	1.033	0.938	0.980	1.02	1 1.030	0 1.02	9 0.986	6.27	
111)	TP	1,2,3-Trichlorobenzene	0.288	3 0.376	0.331	0.35	7 0.35	9 0.36	6 0.36	1 0.348	8.59	



Client

: Sterling Environmental Eng : 441 & 442 WAVERLY AVENUE Lab Number

: L1958026

Project Name Instrument ID

: VOA101

Project Number : 28012

Calibration Date : 12/09/19 12:26

Lab File ID Sample No : V01191209D02 : WG1318918-2

Init. Calib. Date(s) : 11/07/19 Init. Calib. Times : 13:20

11/07/19 16:29

Channel

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mi
Fluorobenzene	1	1	<u> </u>	0	20	120	0
Dichlorodifluoromethane	0.142	0.146	•	-2.8	20	127	0
Chloromethane	0.227	0.192	•	15.4	20	108	0
Vinyl chloride	0.229	0.225		1.7	20	119	0
Bromomethane	10	15.284		-52.8*	20	252	0
Chloroethane	0.151	0.155		-2.6	20	118	0
Trichlorofluoromethane	0.334	0.302	Ť.	9.6	20	111	0
Ethyl ether	0.1	0.09		10	20	105	0
1,1-Dichloroethene	0.209	0.187	18	10.5	20	107	0
Carbon disulfide	0.57	0.498		12.6	20	109	0
Freon-113	0.211	0.186	€:	11.8	20	107	0
lodomethane	10	4.464	<u></u>	55.4* NA	20	56	0
Acrolein	0.025	0.022*		12	20	109	0
Methylene chloride	0.235	0.204	ž	13.2	20	106	0
Acetone	10	7.825	•	21.7	20	99	0
trans-1,2-Dichloroethene	0.22	0.21		4.5	20	117	0
Methyl acetate	0.128	0.105		18	20	97	0
Methyl tert-butyl ether	0.478	0.444		7.1	20	111	0
tert-Butyl alcohol	0.013	0.011*	•	15.4	20	113	0
Diisopropyl ether	0.967	0.861		11	20	107	0
1,1-Dichloroethane	0.507	0.447		11.8	20	105	0
Halothane	0.175	0.166		5.1	20	116	0
Acrylonitrile	0.053	0.047*		11.3	20	104	0
Ethyl tert-butyl ether	0.747	0.718		3.9	20	116	0
Vinyl acetate	0.499	0.425		14.8	20	102	0
cis-1,2-Dichloroethene	0.269	0.226		16	20	100	0
2,2-Dichloropropane	0.36	0.339		5.8	20	116	0
Bromochloromethane	0.095	0.093		2.1	20	110	01
Cyclohexane	0.503	0.46	-	8.5	20	113	0
Chloroform	0.444	0.398	-	10.4	20	108	0
Ethyl acetate	0.163	0.144		11.7	20	100	0
Carbon tetrachloride	0.306	0.304		0.7	20	129	0
Tetrahydrofuran	0.046	0.038*	-	17.4	20	95	0
Dibromofluoromethane	0.253	0.265		-4.7	20	124	0
1,1,1-Trichloroethane	0.385	0.353	-	8.3	20	114	0
2-Butanone	0.073	(0.057)		(21.9)	20	96	0
1,1-Dichloropropene	0.347	0.301	-	13.3	20	109	0
Benzene	0.973	0.813	-	16.4	20	102	0
tert-Amyl methyl ether	0.536	0.484		9.7	20	109	0
1,2-Dichloroethane-d4	0.279	0.311		-11.5	20	134	0
·	0.279	0.289		3	20	119	0
1,2-Dichloroethane	0.401	0.239		16	20	106	0
Methyl cyclohexane Trichloroethene	0.401	0.222		10.5	20	111	01

^{*} Value outside of QC limits.



Client

: Sterling Environmental Eng : 441 & 442 WAVERLY AVENUE

Project Name Instrument ID

: VOA101

Lab File ID Sample No : V01191209D02 : WG1318918-2

Channel :

Lab Number : L1958026 Project Number : 28012

Calibration Date : 12/09/19 12:26

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(mir
Dibromomethane	0.116	0.096		17.2	20	100	0
1,2-Dichloropropane	0.267	0.233	₩.	12.7	20	106	0
Bromodichloromethane	0.294	0.269		8.5	20	114	0
1,4-Dioxane	0.00103	0.00077	*	25.2*	20	89	0
cis-1,3-Dichloropropene	0.366	0.303		17.2	20	102	0
Chlorobenzene-d5	1	1		0	20	99	0
Toluene-d8	1.345	1.543	•	-14.7	20	114	0
Toluene	0.771	0.766		0.6	20	100	0
4-Methyl-2-pentanone	0.071	0.062		12.7	20	89	0
Tetrachloroethene	0.29	0.312		-7.6	20	110	0
trans-1,3-Dichloropropene	0.367	0.344		6.3	20	95	0
Ethyl methacrylate	0.26	0.231	•	11.2	20	88	0
1,1,2-Trichloroethane	0.178	0.169	•	5.1	20	94	0
Chlorodibromomethane	0.213	0.228	<u> </u>	-7	20	115	0
1,3-Dichloropropane	0.37	0.348		5.9	20	94	0
1,2-Dibromoethane	0.191	0.184		3.7	20	98	0
2-Hexanone	0.125	0.102		18.4	20	81	0
Chlorobenzene	0.792	0.787		0.6	20	102	0
Ethylbenzene	1.474	1.392	*	5.6	20	98	0
1,1,1,2-Tetrachloroethane	0.254	0.262	•	-3.1	20	106	0
p/m Xylene	0.557	0.545	¥	2.2	20	100	0
o Xylene	0.518	0.508		1.9	20	99	0
Styrene	0.85	0.789		7.2	20	94	0
1,4-Dichlorobenzene-d4	1	1		0	20	88	0
Bromoform	0.202	0.225		-11.4	20	114	0
Isopropylbenzene	2.619	2.748	•	-4.9	20	95	0
4-Bromofluorobenzene	1.034	1.038		-0.4	20	89	0
Bromobenzene	0.539	0.594		-10.2	20	98	0
n-Propylbenzene	3.039	3.124	*	-2.8	20	93	0
1,4-Dichlorobutane	0.718	0.719		-0.1	20	89	0
1,1,2,2-Tetrachloroethane	0.406	0.416		-2.5	20	92	0
4-Ethyltoluene	2,395	2.646		-10.5	20	100	0
2-Chlorotoluene	1.959	1.99		-1.6	20	93	0
1,3,5-Trimethylbenzene	2.05	2.073		-1.1	20	92	0
1,2,3-Trichloropropane	0.36	0.367	15	-1.9	20	87	0
trans-1,4-Dichloro-2-buten	0.125	0.112		10.4	20	91	0
4-Chlorotoluene	1.847	1.871	*	-1.3	20	92	0
tert-Butvibenzene	1.724	1,777		-3.1	20	93	0
1,2,4-Trimethylbenzene	2.041	2.037		0.2	20	91	0
sec-Butylbenzene	2.27	2.422		-6.7	20	97	0
p-Isopropyltoluene	2.023	2.031	•	-0.4	20	91	0
1,3-Dichlorobenzene	1.07	1.125		-5.1	20	96	0
1,4-Dichlorobenzene	1.083	1.121		-3.5	20	95	0

^{*} Value outside of QC limits.



Client

: Sterling Environmental Eng

Project Name

: 441 & 442 WAVERLY AVENUE

Instrument ID

: VOA101

Lab File ID Sample No : V01191209D02

: WG1318918-2

Channel

Lab Number : L1958026 Project Number : 28012

Calibration Date : 12/09/19 12:26

Init. Calib. Date(s) : 11/07/19 11/07/19

Init. Calib. Times : 13:20 16:29

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min
p-Diethylbenzene	1.108	1.181		-6.6	20	98	0
n-Butylbenzene	1.72	1.654	8:	3.8	20	89	0
1,2-Dichlorobenzene	0.958	0.969	Ħ	-1.1	20	92	0
1,2,4,5-Tetramethylbenzene	1.625	1.714	fi:	-5.5	20	97	0
1,2-Dibromo-3-chloropropan	10	9.07	×.	9.3	20	89	0
1,3,5-Trichlorobenzene	0.523	0.576	<u>.</u>	-10.1	20	102	0
Hexachlorobutadiene	10	11.435		-14.4	20	115	0
1,2,4-Trichlorobenzene	0.449	0.464	*	-3.3	20	94	0
Naphthalene	0.986	0.949	*	3.8	20	89	0
1,2,3-Trichlorobenzene	0.348	0.358		-2.9	20	95	0



^{*} Value outside of QC limits.

Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

Instrument ID : VOA105 Calibration Date : 12/10/19 19:10

Channel :

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min
Fluorobenzene	1	1		0	20	75	0
Dichlorodifluoromethane	0.245	0.174		295	20	51	0
Chloromethane	0.246	0.182		(26*)	20	51	0
Vinyl chloride	0.216	0.186	<u>.</u>	13.9	20	61	0
Bromomethane	0.099	0.085	•	14.1	20	62	0
Chloroethane	0.133	0.153	•	-15	20	80	0
Trichlorofluoromethane	0.362	0.409	•	-13	20	79	0
Ethyl ether	0.076	0.104		-36.8* i/A	20	91	0
1,1-Dichloroethene	0.188	0.187		0.5	20	70	0
Carbon disulfide	0.531	0.503		5.3	20	68	0
Freon-113	0.205	0.211	<u>=</u>	-2.9	20	76	0
Acrolein	0.02	0.018*	•	10	20	59	0
Methylene chloride	0.208	0.204	*	1.9	20	66	0
Acetone	0.035	0.042		-20	20	81	0
trans-1,2-Dichloroethene	0.208	0.211		-1.4	20	69	0
Methyl acetate	0.083	(0.087)	•	-4.8	20	70	0
Methyl tert-butyl ether	0.408	0.436	•	-6.9	20	71	0
tert-Butyl alcohol	0.00947	0.01221*		-28.9* MA	20	102	0
Diisopropyl ether	0.644	0.694		-7.8	20	72	0
1,1-Dichloroethane	0.412	0.425		-3.2	20	69	0
Halothane	0.157	0.173		-10.2	20	80	0
Acrylonitrile	0.035	0.038*	•	-8.6	20	70	0
Ethyl tert-butyl ether	0.544	0.573	•	-5.3	20	71	0
Vinyl acetate	0.383	0.367	•	4.2	20	61	0
cis-1,2-Dichloroethene	0.221	0.225	-	-1.8	20	66	0
2,2-Dichloropropane	0.33	0.402	_	-21.8* NK	20	88	0
Bromochloromethane	0.095	0.103	-	-8.4	20	73	0
Cyclohexane	0.365	0.342		6.3	20	69	0
Chloroform	0.413	0.459		-11.1	20	73	0
Ethyl acetate	0.114	0.125	72	-9.6	20	75	0
Carbon tetrachloride	0.329	0.381		-15.8	20	79	0
Tetrahydrofuran	0.032	0.034*	,(a)	-6.3	20	70	0
Dibromofluoromethane	0.271	0.314	0.00	-15.9	20	85	0
1,1,1-Trichloroethane	0.402	0.465		-15.7	20	79	0
2-Butanone	0.049	(0.052)		-6.1	20	74	0
1,1-Dichloropropene	0.306	0.327	•	-6.9	20	77	0
Benzene	0.8	0.795		0.6	20	66	0
	0.407	0.433		-6.4	20	71	0
tert-Amyl methyl ether		0.433			20	85	0
1,2-Dichloroethane-d4	0.345			-23.5* MA			
1,2-Dichloroethane	0.307	0.366	-	-19.2	20	77	0
Methyl cyclohexane	0.355	0.352	(e)	0.8	20	77	0
Trichloroethene	0.244	0.238		2.5	20	71	0
Dibromomethane	0.105	0.114	3.0	-8.6	20	70	0

^{*} Value outside of QC limits.



Lab Number : L1958026 : Sterling Environmental Eng Client : 441 & 442 WAVERLY AVENUE Project Number : 28012 Project Name

: VOA105 Calibration Date : 12/10/19 19:10 Instrument ID

: V05191210P01 Init. Calib. Date(s) : 09/21/19 09/21/19 Lab File ID Init. Calib. Times : 02:10 06:00 : WG1319454-2 Sample No

Channel

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min
1,2-Dichloropropane	0.196	0.194	•	1	20	65	0
Bromodichloromethane	0.282	0.319	•	-13.1	20	73	0
1,4-Dioxane	0.00102	0.0011*	·	-7.8	20	91	0
cis-1,3-Dichloropropene	0.297	0.308	•	-3.7	20	69	0
Chlorobenzene-d5	1	1		0	20	75	0
Toluene-d8	1.306	1.396	•	-6.9	20	80	0
Toluene	0.71	0.713	¥	-0.4	20	68	0
4-Methyl-2-pentanone	0.05	0.052	•	-4	20	72	0
Tetrachloroethene	0.322	0.341		-5.9	20	75	0
trans-1,3-Dichloropropene	10	9.711		2.9	20	71	0
Ethyl methacrylate	0.214	0.229	•	-7	20	76	0
1,1,2-Trichloroethane	0.153	0.163	•	-6.5	20	69	0
Chlorodibromomethane	0.209	0.229		-9.6	20	73	0
1,3-Dichloropropane	0.34	0.366	-	-7.6	20	73	0
1,2-Dibromoethane	0.174	0.199		-14.4	20	76	0
2-Hexanone	0.089	0.088*)	•	1.1	20	72	0
Chlorobenzene	0.773	0.779		-0.8	20	68	0
Ethylbenzene	1.397	1.471	•	-5.3	20	70	0
1,1,1,2-Tetrachloroethane	0.271	0.302	•	-11.4	20	76	0
p/m Xylene	0.499	0.526		-5.4	20	71	0
o Xylene	0.457	0.496		-8.5	20	72	0
Styrene	0.713	0.81		-13.6	20	72	0
1,4-Dichlorobenzene-d4	1	Í		0	20	74	0
Bromoform	10	10.945		-9.5	20	77	0
Isopropylbenzene	2.5	2.811	•	-12.4	20	76	0
4-Bromofluorobenzene	0.983	1.093	•	-11.2	20	82	0
Bromobenzene	0.604	0.609	<u>a</u>	-0.8	20	70	0
n-Propylbenzene	2.956	3.303		-11.7	20	75	0
1,4-Dichlorobutane	0.583	0.636		-9.1	20	72	0
1,1,2,2-Tetrachloroethane	0.335	0.37		-10.4	20	73	0
4-Ethyltoluene	2.341	2.85		-21.7* L/A	20	82	0
2-Chlorotoluene	1.872	1.971		-5.3	20	72	0
1,3,5-Trimethylbenzene	2.101	2.383	•	-13.4	20	76	0
1,2,3-Trichloropropane	0.327	0.368	8	-12.5	20	76	0
trans-1,4-Dichloro-2-buten	10	8.091	•	19.1	20	61	0
4-Chlorotoluene	1.919	2.064		-7.6	20	72	0
tert-Butylbenzene	1.809	1.983		-9.6	20	76	0
1,2,4-Trimethylbenzene	2.02	2.283	•	-13	20	74	0
sec-Butylbenzene	2.335	2.803	•	-20	20	84	0
p-Isopropyltoluene	2.138	2.452		-14.7	20	78	0
1,3-Dichlorobenzene	1.122	1.166		-3.9	20	69	0
1,4-Dichlorobenzene	1,159	1.168		-0.8	20	69	0
p-Diethylbenzene	1,214	1.438		-18.5	20	83	0

^{*} Value outside of QC limits.



Client

: Sterling Environmental Eng

: 441 & 442 WAVERLY AVENUE

Project Name Instrument ID Lab File ID

Sample No

: VOA105

: V05191210P01 : WG1319454-2

Lab Number Project Number : 28012

: L1958026

Init. Calib. Date(s) : 09/21/19

Calibration Date : 12/10/19 19:10

Init. Calib. Times : 02:10

06:00

09/21/19

Channel

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min
n-Butylbenzene	1.918	2.172		-13.2	20	79	0
1,2-Dichlorobenzene	0.975	1.002	•	-2.8	20	68	0
1,2,4,5-Tetramethylbenzene	1.623	2.084		-28.4*VP	20	83	0
1,2-Dibromo-3-chloropropan	10	10.063		-0.6	20	75	0
1,3,5-Trichlorobenzene	0.691	0.761	•	-10.1	20	76	0
Hexachlorobutadiene	0.28	0.32	*	-14.3	20	88	0
1,2,4-Trichlorobenzene	0.532	0.538	¥	-1.1	20	71	0
Naphthalene	0.73	0.769	*	-5.3	20	74	0
1,2,3-Trichlorobenzene	0.376	0.366		2.7	20	71	0



^{*} Value outside of QC limits.

Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-01
 Date Collected
 : 12/04/19 09:25

 Client ID
 : OSMW-4
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/09/19 16:24

Sample Matrix: WATERDilution Factor: 1Analytical Method: 1,8260CAnalyst: NLKLab File ID: V01191209D12Instrument ID: VOA101Sample Amount: 10 mlGC Column: RTX-502.2

Level: LOW: %Solids: N/A
Extract Volume (MeOH): N/A: Injection Volume: N/A

			ug/L		
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
66-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
24-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
08-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
07-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
1-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
'5-27-4	Bromodichloromethane	ND	0.50	0.19	υ
0061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
0061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
9-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
1-43-2	Benzene	ND	0.50	0.16	U
08-88-3	Toluene	ND	2.5	0.70	U
00-41-4	Ethylbenzene	ND	2.5	0.70	U
' 4-87-3	Chloromethane	ND	2.5	0.70	U
'4-83-9	Bromomethane	ND	2.5	0.70	U
'5-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-01
 Date Collected
 : 12/04/19 09:25

 Client ID
 : OSMW-4
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/09/19 16:24

Sample Matrix : WATER Dilution Factor : 1
Analytical Method : 1,8260C Analyst : NLK
Lab File ID : V01191209D12 Instrument ID : VOA101
Sample Amount : 10 ml GC Column : RTX-502.2

Level: LOW: %Solids: N/A
Extract Volume (MeOH): N/A: Injection Volume: N/A

			ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U	
79-01-6	Trichloroethene	ND	0.50	0.18	U	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U	
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U	
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U	
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U	
179601-23-1	p/m-Xylene	ND	2.5	0.70	U	
95-47-6	o-Xylene	ND	2.5	0.70	U	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U	
100-42-5	Styrene	ND	2.5	0.70	U	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U	
67-64-1	Acetone	ND	5.0	1.5	U	
75-15-0	Carbon disulfide	ND	5.0	1.0	U	
78-93-3	2-Butanone	ND	5.0	1.9	U	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U	
591-78-6	2-Hexanone	ND	5.0	1.0	U	
74-97-5	Bromochloromethane	ND	2.5	0.70	U	
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U	
98-82-8	Isopropylbenzene	ND	2.5	0.70	U	
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U	
79-20-9	Methyl Acetate	ND	2.0	0.23	U	
110-82-7	Cyclohexane	4.7	10	0.27	J	
123-91-1	1,4-Dioxane	ND	250	61.	υŖ	



Client

: Sterling Environmental Eng

Project Name

: 441 & 442 WAVERLY AVENUE

Lab ID Client ID : L1958026-01 : OSMW-4

Sample Location

: MAMARONECK, NY

Sample Matrix Analytical Method : WATER : 1,8260C

Lab File ID

: V01191209D12

Sample Amount

: 10 ml

Leve!

: LOW

Extract Volume (MeOH): N/A

Lab Number : L1958026

Project Number : 28012 Date Collected : 12/04/19 09:25

Date Received: 12/04/19

Date Analyzed : 12/09/19 16:24 Dilution Factor : 1

Analyst : NLK Instrument ID GC Column

: VOA101 : RTX-502.2

%Solids : N/A Injection Volume : N/A

ug/L Results MDL RL Qualifier CAS NO. **Parameter** ND 76-13-1 Freon-113 2.5 0.70 U 1.4 10 0.40 108-87-2 Methyl cyclohexane



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-02
 Date Collected
 : 12/04/19 10:35

 Client ID
 : GZ-22D
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/09/19 16:48

Sample Matrix : WATER Dilution Factor : 1
Analytical Method : 1,8260C Analyst : NLK
Lab File ID : V01191209D13 Instrument ID : V0A101
Sample Amount : 10 ml GC Column : RTX-502.2

Sample Amount : 10 ml GC Column : RTX-5
Level : LOW %Solids : N/A
Extract Volume (MeOH) : N/A Injection Volume : N/A

			ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	2.5	0.70	U	
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U	
67-66-3	Chloroform	ND	2.5	0.70	U	
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U	
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U	
124-48-1	Dibromochloromethane	ND	0.50	0.15	U	
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U	
127-18-4	Tetrachloroethene	ND	0.50	0.18	U	
108-90-7	Chlorobenzene	ND	2.5	0.70	U	
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U	
107-06-2	1,2-Dichloroethane	18	0.50	0.13		
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U	
75-27-4	Bromodichloromethane	ND	0.50	0.19	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U	
75-25-2	Bromoform	ND	2.0	0.65	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U	
71-43-2	Benzene	2.2	0.50	0.16		
108-88-3	Toluene	ND	2.5	0.70	U	
100-41-4	Ethylbenzene	ND	2.5	0.70	U	
74-87-3	Chloromethane	ND	2.5	0.70	U	
74-83-9	Bromomethane	ND	2.5	0.70	U	
75-01-4	Vinyl chloride	5.8	1.0	0.07		
75-00-3	Chloroethane	ND	2.5	0.70	U	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U	



Client : Sterling Environmental Eng
Project Name : 441 & 442 WAVERLY AVENUE

Lab ID : L1958026-02 Client ID : GZ-22D

Sample Location : MAMARONECK, NY

Sample Matrix : WATER
Analytical Method : 1,8260C
Lab File ID : V01191209D13

Sample Amount : 10 ml Level : LOW Extract Volume (MeOH) : N/A Lab Number : L1958026 Project Number : 28012

Date Collected : 12/04/19 10:35
Date Received : 12/04/19
Date Analyzed : 12/09/19 16:48

Dilution Factor : 1
Analyst : NLK
Instrument ID : VOA101
GC Column : RTX-502.2

%Solids : N/A Injection Volume : N/A

ug/L CAS NO. **Parameter** Results RL MDL Qualifier 156-60-5 trans-1,2-Dichloroethene 82 2.5 0.70 79-01-6 Trichloroethene 0.50 0.50 0.18 ND 95-50-1 1,2-Dichlorobenzene 2.5 0.70 541-73-1 ND U 1,3-Dichlorobenzene 2.5 0.70 106-46-7 1,4-Dichlorobenzene ND 2.5 0.70 П 1634-04-4 Methyl tert butyl ether 2.0 2.5 0.70 J 179601-23-1 p/m-Xylene ND 2.5 0.70 U 95-47-6 ND 2.5 0.70 U o-Xylene cis-1,2-Dichloroethene 156-59-2 5.7 2.5 0.70 100-42-5 Styrene ND 2.5 0.70 U 75-71-8 Dichlorodifluoromethane ND 5.0 1.0 U 67-64-1 Acetone ND 5.0 1.5 U Carbon disulfide ND 75-15-0 5.0 1.0 U ND 78-93-3 2-Butanone 5.0 1.9 u 108-10-1 4-Methyl-2-pentanone ND 5.0 1.0 U 591-78-6 ND U 2-Hexanone 5.0 1.0 74-97-5 Bromochloromethane ND 0.70 U 2.5 106-93-4 1,2-Dibromoethane ND 2.0 0.65 U 96-12-8 1,2-Dibromo-3-chloropropane ND 2.5 0.70 Ų 98-82-8 ND 0.70 U Isopropylbenzene 87-61-6 1,2,3-Trichlorobenzene ND 2.5 0.70 U 120-82-1 1,2,4-Trichlorobenzene ND 2.5 0.70 u 79-20-9 **Methyl Acetate** ND 2.0 0.23 U 110-82-7 Cyclohexane 1.5 10 0.27 1.4-Dioxane ND 123-91-1 250 61. U



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-02
 Date Collected
 : 12/04/19 10:35

 Client ID
 : GZ-22D
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/09/19 16:48

Sample Matrix : WATER Dilution Factor : 1
Analytical Method : 1,8260C Analyst : NLK
Lab File ID : V01191209D13 Instrument ID : VOA101
Sample Amount : 10 ml GC Column : RTX-502.2

Level : LOW %Solids : N/A
Extract Volume (MeOH) : N/A Injection Volume : N/A

		75				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
76-13-1	Freon-113	ND	2.5	0.70	U	
108-87-2	Methyl cyclohexane	0.71	10	0.40	J	



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-03
 Date Collected
 : 12/04/19 11:40

 Client ID
 : GZ-21D
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/09/19 17:12

Sample Location : MAMARONECK, NY Date Analyzed : 12/09/19 17:12
Sample Matrix : WATER Dilution Factor : 1
Analytical Method : 1,8260C Analyst : NLK

Lab File ID : V01191209D14 Instrument ID : V0A101 Sample Amount : 10 ml GC Column : RTX-502.2

Level : LOW %Solids : N/A Extract Volume (MeOH) : N/A Injection Volume : N/A

			ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	2.5	0.70	U	
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U	
67-66-3	Chloroform	ND	2.5	0.70	U	
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U	
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U	
124-48-1	Dibromochloromethane	ND	0.50	0.15	U	
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U	
127-18-4	Tetrachloroethene	ND	0.50	0.18	U	
108-90-7	Chlorobenzene	ND	2.5	0.70	U	
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U	
107-06-2	1,2-Dichloroethane	74	0.50	0.13		
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U	
75-27-4	Bromodichloromethane	ND	0.50	0.19	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U	
75-25-2	Bromoform	ND	2.0	0.65	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U	
71-43-2	Benzene	0.49	0.50	0.16	J	
108-88-3	Toluene	ND	2.5	0.70	U	
100-41-4	Ethylbenzene	ND	2.5	0.70	U	
74-87-3	Chloromethane	ND	2.5	0.70	U	
74-83-9	Bromomethane	ND	2.5	0.70	U	
75-01-4	Vinyl chloride	5.0	1.0	0.07		
75-00-3	Chloroethane	ND	2.5	0.70	U	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U	



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-03
 Date Collected
 : 12/04/19 11:40

 Client ID
 : GZ-21D
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/09/19 17:12

Sample Location : MAMARONECK, NY Date Analyzed : 12/09/19 17:12
Sample Matrix : WATER Dilution Factor : 1

Analytical Method : 1,8260C Analyst : NLK
Lab File ID : V01191209D14 Instrument ID : VOA101
Sample Amount : 10 ml GC Column : RTX-502.2

Level : LOW %Solids : N/A

Extract Volume (MeOH) : N/A Injection Volume : N/A

CAS NO.	Parameter	Results	ug/L RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	1.9	2.5	0.70	J
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	110	2.5	0.70	
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	υR



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-03
 Date Collected
 : 12/04/19 11:40

 Client ID
 : GZ-21D
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/09/19 17:12

Sample Matrix: WATERDilution Factor: 1Analytical Method: 1,8260CAnalyst: NLKLab File ID: V01191209D14Instrument ID: VOA101Sample Amount: 10 mlGC Column: RTX-502.2

Level : LOW %Solids : N/A Extract Volume (MeOH) : N/A Injection Volume : N/A

CAS NO.	Parameter	ug/L				
		Results	RL	MDL	Qualifier	
76-13-1	Freon-113	ND	2.5	0.70	U	
108-87-2	Methyl cyclohexane	ND	10	0.40	U	



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-04D
 Date Collected
 : 12/04/19 13:30

 Client ID
 : GZ-23D
 Date Received
 : 12/04/19

Sample Location : MAMARONECK, NY Date Analyzed : 12/09/19 18:00
Sample Matrix : WATER Dilution Factor : 20
Analytical Method : 1,8260C Analyst : NLK

Lab File ID : V01191209D16 Instrument ID : VOA101
Sample Amount : 0.5 ml GC Column : RTX-502.2
Level : LOW %Solids : N/A
Extract Volume (MeOH) : N/A Injection Volume : N/A

			ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	50	14.	U	
75-34-3	1,1-Dichloroethane	ND	50	14.	U	
67-66-3	Chloroform	ND	50	14.	U	
56-23-5	Carbon tetrachloride	ND	10	2.7	U	
78-87-5	1,2-Dichloropropane	ND	20	2.7	U	
124-48-1	Dibromochloromethane	ND	10	3.0	U	
79-00-5	1,1,2-Trichloroethane	ND	30	10.	U	
127-18-4	Tetrachloroethene	1700	10	3.6		
108-90-7	Chlorobenzene	ND	50	14.	υ	
75-69-4	Trichlorofluoromethane	ND	50	14.	U	
107-06-2	1,2-Dichloroethane	6.8	10	2.6	J	
71-55-6	1,1,1-Trichloroethane	ND	50	14.	U	
75-27-4	Bromodichloromethane	ND	10	3.8	U	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.3	U	
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.9	U	
75-25-2	Bromoform	ND	40	13.	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	3.3	U	
71-43-2	Benzene	ND	10	3.2	U	
108-88-3	Toluene	ND	50	14.	U	
100-41-4	Ethylbenzene	ND	50	14.	U	
74-87-3	Chloromethane	ND	50	14.	U	
74-83-9	Bromomethane	ND	50	14.	U	
75-01-4	Vinyl chloride	57	20	1.4		
75-00-3	Chloroethane	ND	50	14.	U	
75-35-4	1,1-Dichloroethene	ND	10	3.4	U	



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-04D
 Date Collected
 : 12/04/19 13:30

 Client ID
 : GZ-23D
 Date Received
 : 12/04/19

Sample Location : MAMARONECK, NY Date Analyzed : 12/09/19 18:00
Sample Matrix : WATER Dilution Factor : 20

Analytical Method : 1,8260C Analyst : NLK
Lab File ID : V01191209D16 Instrument ID : V0A101
Sample Amount : 0.5 ml GC Column : RTX-502.2

Level : LOW %Solids : N/A

Extract Volume (MeOH) : N/A Injection Volume : N/A

CAS NO.	Parameter		ug/L		
		Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	47	50	14.	j
79-01-6	Trichloroethene	570	10	3.5	
95-50-1	1,2-Dichlorobenzene	ND	50	14.	U
541-73-1	1,3-Dichlorobenzene	ND	50	14.	U
106-46-7	1,4-Dichlorobenzene	ND	50	14.	U
1634-04-4	Methyl tert butyl ether	ND	50	14.	U
179601-23-1	p/m-Xylene	ND	50	14.	U
95-47-6	o-Xylene	ND	50	14.	U
156-59-2	cis-1,2-Dichloroethene	240	50	14.	
100-42-5	Styrene	ND	50	14.	U
75-71-8	Dichlorodifluoromethane	ND	100	20.	U
67-64-1	Acetone	ND	100	29.	U
75-15-0	Carbon disulfide	ND	100	20.	U
78-93-3	2-Butanone	ND	100	39.	U
108-10-1	4-Methyl-2-pentanone	ND	100	20.	U
591-78-6	2-Hexanone	ND	100	20.	U
74-97-5	Bromochloromethane	ND	50	14.	U
106-93-4	1,2-Dibromoethane	ND	40	13.	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	14.	U
98-82-8	Isopropylbenzene	ND	50	14.	U
87-61-6	1,2,3-Trichlorobenzene	ND	50	14.	U
120-82-1	1,2,4-Trichlorobenzene	ND	50	14.	U
79-20-9	Methyl Acetate	ND	40	4.7	U
110-82-7	Cyclohexane	ND	200	5.4	U
123-91-1	1,4-Dioxane	ND	5000	1200	υR



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

Lab ID: L1958026-04DDate Collected: 12/04/19 13:30Client ID: GZ-23DDate Received: 12/04/19Sample Location: MAMARONECK, NYDate Analyzed: 12/09/19 18:00Sample Matrix: WATERDilution Factor: 20

Sample Matrix: WATERDilution Factor: 20Analytical Method: 1,8260CAnalyst: NLKLab File ID: V01191209D16Instrument ID: VOA101Sample Amount: 0.5 mlGC Column: RTX-502.2

Level : LOW %Solids : N/A Extract Volume (MeOH) : N/A Injection Volume : N/A

CAS NO.			ug/L			
	Parameter	Results	RL	MDL	Qualifier	_
76-13-1	Freon-113	ND	50	14.	U	
108-87-2	Methyl cyclohexane	ND	200	7.9	U	



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-05D
 Date Collected
 : 12/04/19 14:30

 Client ID
 : OSMW-3
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/09/19 18:47

Sample Matrix : WATER Dilution Factor : 50

Analytical Method : 1,8260C Analyst : NLK

Lab File ID : V01191209D18 Instrument ID : VOA101

Sample Amount : 0.2 ml GC Column : RTX-502.2

Level: LOW %Solids: N/A Extract Volume (MeOH): N/A Injection Volume: N/A

			ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	120	35.	U	
75-34-3	1,1-Dichloroethane	ND	120	35.	U	
67-66-3	Chloroform	ND	120	35.	U	
56-23-5	Carbon tetrachloride	ND	25	6.7	U	
78-87-5	1,2-Dichloropropane	ND	50	6.8	U	
124-48-1	Dibromochloromethane	ND	25	7.4	U	
79-00-5	1,1,2-Trichloroethane	ND	75	25.	U	
127-18-4	Tetrachloroethene	4900	25	9.0		
108-90-7	Chlorobenzene	ND	120	35.	υ	
75-69-4	Trichlorofluoromethane	ND	120	35.	U	
107-06-2	1,2-Dichloroethane	ND	25	6.6	U	
71-55-6	1,1,1-Trichloroethane	ND	120	35.	U	
75-27-4	Bromodichloromethane	ND	25	9.6	U	
10061-02-6	trans-1,3-Dichloropropene	ND	25	8.2	U	
10061-01-5	cis-1,3-Dichloropropene	ND	25	7.2	U	
75-25-2	Bromoform	ND	100	32.	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	8.4	U	
71-43-2	Benzene	ND	25	8.0	U	
108-88-3	Toluene	ND	120	35.	U	
100-41-4	Ethylbenzene	ND	120	35.	U	
74-87-3	Chloromethane	ND	120	35.	U	
74-83-9	Bromomethane	ND	120	35.	U	
75-01-4	Vinyl chloride	ND	50	3.6	U	
75-00-3	Chloroethane	ND	120	35.	U	
75-35-4	1,1-Dichloroethene	ND	25	8.4	U	



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-05D
 Date Collected
 : 12/04/19 14:30

 Client ID
 : OSMW-3
 Date Received
 : 12/04/19

 Sample Location
 : MAMAPONECK NV
 Date Analyzed
 : 12/09/19 18:47

Sample Location : MAMARONECK, NY Date Analyzed : 12/09/19 18:47
Sample Matrix : WATER Dilution Factor : 50

Analytical Method : 1,8260C Analyst : NLK
Lab File ID : V01191209D18 Instrument ID : V0A101
Sample Amount : 0.2 ml GC Column : RTX-502.2

Level : LOW %Solids : N/A

Extract Volume (MeOH) : N/A Injection Volume : N/A

			ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
156-60-5	trans-1,2-Dichloroethene	ND	120	35.	U	
79-01-6	Trichloroethene	440	25	8.8		
95-50-1	1,2-Dichlorobenzene	ND	120	35.	U	
541-73-1	1,3-Dichlorobenzene	ND	120	35.	U	
106-46-7	1,4-Dichlorobenzene	ND	120	35.	U	
1634-04-4	Methyl tert butyl ether	ND	120	35.	U	
179601-23-1	p/m-Xylene	ND	120	35.	U	
95-47-6	o-Xylene	ND	120	35.	U	
156-59-2	cis-1,2-Dichloroethene	75	120	35.	J	
100-42-5	Styrene	ND	120	35.	U	
75-71-8	Dichlorodifluoromethane	ND	250	50.	U	
67-64-1	Acetone	ND	250	73.	U	
75-15-0	Carbon disulfide	ND	250	50.	U	
78-93-3	2-Butanone	ND	250	97.	U	
108-10-1	4-Methyl-2-pentanone	ND	250	50.	U	
591-78-6	2-Hexanone	ND	250	50.	U	
74-97-5	Bromochloromethane	ND	120	35.	U	
106-93-4	1,2-Dibromoethane	ND	100	32.	U	
96-12-8	1,2-Dibromo-3-chioropropane	ND	120	35.	U	
98-82-8	Isopropylbenzene	ND	120	35.	V	
37-61-6	1,2,3-Trichlorobenzene	ND	120	35.	U	
120-82-1	1,2,4-Trichlorobenzene	ND	120	35.	U	
79-20-9	Methyl Acetate	ND	100	12.	U	
110-82-7	Cyclohexane	ND	500	14.	U	
23-91-1	1,4-Dioxane	ND	12000	3000	u R	
120-31-1	I,T-DIOXAIIC	ND	. =000	3000	- I	



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-05D
 Date Collected
 : 12/04/19 14:30

 Client ID
 : OSMW-3
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/09/19 18:47

Sample Matrix : WATER Dilution Factor : 50
Analytical Method : 1,8260C Analyst : NLK
Lab File ID : V01191209D18 Instrument ID : V0A101
Sample Amount : 0.2 ml GC Column : RTX-502.2

Level: LOW: %Solids: N/A
Extract Volume (MeOH): N/A: Injection Volume: N/A

	Parameter	ug/L			
CAS NO.		Results	RL	MDL	Qualifier
76-13-1	Freon-113	ND	120	35.	U
108-87-2	Methyl cyclohexane	ND	500	20.	U



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-06D
 Date Collected
 : 12/04/19 15:30

 Client ID
 : B6-OWD
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/10/19 21:06

Sample Matrix: WATERDilution Factor: 10Analytical Method: 1,8260CAnalyst: NLKLab File ID: V05191210P06Instrument ID: V0A105Sample Amount: 1 mlGC Column: RTX-502.2

Level : LOW %Solids : N/A Extract Volume (MeOH) : N/A Injection Volume : N/A

			ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	25	7.0	U	
75-34-3	1,1-Dichloroethane	ND	25	7.0	U	
67-66-3	Chloroform	ND	25	7.0	U	
56-23-5	Carbon tetrachloride	ND	5.0	1.3	U	
78-87-5	1,2-Dichloropropane	ND	10	1.4	U	
124-48-1	Dibromochloromethane	ND	5.0	1.5	U	
79-00-5	1,1,2-Trichloroethane	ND	15	5.0	U	
127-18-4	Tetrachloroethene	520	5.0	1.8		
108-90-7	Chlorobenzene	ND	25	7.0	U	
75-69-4	Trichlorofluoromethane	ND	25	7.0	U	
07-06-2	1,2-Dichloroethane	12	5.0	1.3	ゴ ト	
1-55-6	1,1,1-Trichloroethane	ND	25	7.0	U	
75-27-4	Bromodichloromethane	ND	5.0	1.9	U	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.6	U	
0061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.4	U	
75-25-2	Bromoform	ND	20	6.5	U	
9-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.7	U	
71-43-2	Benzene	ND	5.0	1.6	U	
08-88-3	Toluene	ND	25	7.0	U	
00-41-4	Ethylbenzene	ND	25	7.0	U	
'4-87-3	Chloromethane	ND	25	7.0	U	
4-83-9	Bromomethane	ND	25	7.0	U	
'5-01 - 4	Vinyl chloride	ND	10	0.71	U	
5-00-3	Chloroethane	ND	25	7.0	U	
5-35-4	1,1-Dichloroethene	ND	5.0	1.7	U	



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

Lab ID: L1958026-06DDate Collected: 12/04/19 15:30Client ID: B6-OWDDate Received: 12/04/19Sample Location: MAMARONECK, NYDate Analyzed: 12/10/19 21:06Sample Matrix: WATERDilution Factor: 10

Sample Location : MAMARONECK, NY

Sample Matrix : WATER Dilution Factor : 10

Analytical Method : 1,8260C Analyst : NLK

Lab File ID : V05191210P06 Instrument ID : VOA105

Sample Amount : 1 ml GC Column : RTX-502.2
Level : LOW %Solids : N/A
Extract Volume (MeOH) : N/A Injection Volume : N/A

			ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
156-60-5	trans-1,2-Dichloroethene	24	25	7.0	J Jt	
79-01-6	Trichloroethene	1200	5.0	1.8		
95-50-1	1,2-Dichlorobenzene	ND	25	7.0	U	
541-73-1	1,3-Dichlorobenzene	ND	25	7.0	U	
106-46-7	1,4-Dichlorobenzene	ND	25	7.0	U	
1634-04-4	Methyl tert butyl ether	ND	25	7.0	U	
179601-23-1	p/m-Xylene	ND	25	7.0	U	
95-47-6	o-Xylene	ND	25	7.0	U	
156-59-2	cis-1,2-Dichloroethene	620	25	7.0		
100-42-5	Styrene	ND	25	7.0	U	
75-71-8	Dichlorodifluoromethane	ND	50	10.	U	
67-64-1	Acetone	ND	50	15.	U	
75-15-0	Carbon disulfide	ND	50	10.	U	
78-93-3	2-Butanone	ND	50	19.	U	
108-10-1	4-Methyl-2-pentanone	ND	50	10.	U	
591-78-6	2-Hexanone	ND	50	10.	U	
74-97-5	Bromochloromethane	ND	25	7.0	U	
106-93-4	1,2-Dibromoethane	ND	20	6.5	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	7.0	U	
98-82-8	Isopropylbenzene	ND	25	7.0	U	
87-61-6	1,2,3-Trichlorobenzene	ND	25	7.0	U	
120-82-1	1,2,4-Trichlorobenzene	ND	25	7.0	U	
79-20-9	Methyl Acetate	ND	20	2.3	U	
110-82-7	Cyclohexane	ND	100	2.7	U	
123-91-1	1,4-Dioxane	ND	2500	610	U	



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-06D
 Date Collected
 : 12/04/19 15:30

 Client ID
 : B6-OWD
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/10/19 21:06

Sample Matrix : WATER Dilution Factor : 10
Analytical Method : 1,8260C Analyst : NLK
Lab File ID : V05191210P06 Instrument ID : V0A105
Sample Amount : 1 ml GC Column : RTX-502.2

Level : LOW %Solids : N/A

Extract Volume (MeOH) : N/A Injection Volume : N/A

CAS NO.	Parameter					
		Results	RL	MDL	Qualifier	
76-13-1	Freon-113	ND	25	7.0	U	
108-87-2	Methyl cyclohexane	ND	100	4.0	U	



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-07
 Date Collected
 : 12/04/19 00:00

 Client ID
 : DUP-12042019
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/09/19 17:36

Sample Matrix : WATER Dilution Factor : 1
Analytical Method : 1,8260C Analyst : NLK
Lab File ID : V01191209D15 Instrument ID : VOA101
Sample Amount : 10 III GC Column : RTX-502.2

Level: LOW %Solids: N/A Extract Volume (MeOH): N/A injection Volume: N/A

		<u>~</u>	ug/L		
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	υ
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	74	0.50	0.13	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Веплепе	0.48	0.50	0.16	J
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	4.8	1.0	0.07	
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-07
 Date Collected
 : 12/04/19 00:00

 Client ID
 : DUP-12042019
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/09/19 17:36

Sample Matrix : WATER Dilution Factor : 1
Analytical Method : 1,8260C Analyst : NLK
Lab File ID : V01191209D15 Instrument ID : VOA101
Sample Amount : 10 ml GC Column : RTX-502.2

Level : LOW %Solids : N/A Extract Volume (MeOH) : N/A Injection Volume : N/A

			ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
156-60-5	trans-1,2-Dichloroethene	1.7	2.5	0.70	J	
79-01-6	Trichloroethene	ND	0.50	0.18	U	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U	
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U	
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U	
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U	
179601-23-1	p/m-Xylene	ND	2.5	0.70	U	
95-47-6	o-Xylene	ND	2.5	0.70	U	
156-59-2	cis-1,2-Dichloroethene	110	2.5	0.70		
100-42-5	Styrene	ND	2.5	0.70	U	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U	
67-64-1	Acetone	ND	5.0	1.5	U	
75-15-0	Carbon disulfide	ND	5.0	1.0	U	
78-93-3	2-Butanone	ND	5.0	1.9	U	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U	
591-78-6	2-Hexanone	ND	5.0	1.0	U	
74-97-5	Bromochloromethane	ND	2.5	0.70	U	
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U	
98-82-8	Isopropylbenzene	ND	2.5	0.70	U	
37-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U	
79-20-9	Methyl Acetate	ND	2.0	0.23	U	
110-82-7	Cyclohexane	ND	10	0.27	U	
123-91-1	1,4-Dioxane	ND	250	61.	UR	



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-07
 Date Collected
 : 12/04/19 00:00

 Client ID
 : DUP-12042019
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/09/19 17:36

Sample Matrix : WATER Dilution Factor : 1
Analytical Method : 1,8260C Analyst : NLK
Lab File ID : V01191209D15 Instrument ID : V0A101

Sample Amount : 10 ml GC Column : RTX-502.2

Level : LOW %Solids : N/A

Extract Volume (MeOH) : N/A Injection Volume : N/A

Parameter					
	Results	RL	MDL	Qualifier	
Freon-113	ND	2.5	0.70	U	
Methyl cyclohexane	ND	10	0.40	U	
	Freon-113	Freon-113 ND	Freon-113 ND 2.5	Parameter Results RL MDL Freon-113 ND 2.5 0.70	Parameter Results RL MDL Qualifier Freon-113 ND 2.5 0.70 U



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-08
 Date Collected
 : 12/04/19 00:00

 Client ID
 : TB-12042019
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/09/19 16:00

 Sample Matrix
 : WATER
 Dilution Factor
 : 1

Sample Matrix: WATERDilution FactorAnalytical Method: 1,8260CAnalystLab File ID: V01191209D11Instrument IDSample Amount: 10 mlGC Column

Sample Amount : 10 ml GC Column : RTX-502.2

Level : LOW %Solids : N/A

Extract Volume (MeOH) : N/A Injection Volume : N/A

			ug/L		
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	υ
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachioroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
08-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	υ
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
	·				



: NLK

: VOA101

Client : Sterling Environmental Eng
Project Name : 441 & 442 WAVERLY AVENUE

Lab ID : L1958026-08 Client ID : TB-12042019 Sample Location : MAMARONECK, NY

Sample Matrix : WATER
Analytical Method : 1,8260C
Lab File ID : V01191209D11

Sample Amount : 10 ml Level : LOW Extract Volume (MeOH) : N/A Lab Number : L1958026 Project Number : 28012

Date Collected : 12/04/19 00:00
Date Received : 12/04/19
Date Analyzed : 12/09/19 16:00

Dilution Factor : 1
Analyst : NLK
Instrument ID : VOA101
GC Column : RTX-502.2

%Solids : N/A Injection Volume : N/A

			ug/L		
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	υ
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
'5-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
3 7-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
08-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
' 4-97-5	Bromochloromethane	ND	2.5	0.70	U
06-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
06-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
37-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
20-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
10-82-7	Cyclohexane	ND	10	0.27	υ
23-91-1	1,4-Dioxane	ND	250	61.	u R
£0-31-1	I,T'DIVADIG	140		V 14	- 11



Client : Sterling Environmental Eng Lab Number : L1958026
Project Name : 441 & 442 WAVERLY AVENUE Project Number : 28012

 Lab ID
 : L1958026-08
 Date Collected
 : 12/04/19 00:00

 Client ID
 : TB-12042019
 Date Received
 : 12/04/19

 Sample Location
 : MAMARONECK, NY
 Date Analyzed
 : 12/09/19 16:00

Sample Matrix: WATERDilution Factor: 1Analytical Method: 1,8260CAnalyst: NLKLab File ID: V01191209D11Instrument ID: V0A101Sample Amount: 10 mlGC Column: RTX-502.2

Level: LOW: %Solids: N/A
Extract Volume (MeOH): N/A: Injection Volume: N/A

ug/L MDL Results RL Qualifier CAS NO. Parameter ND 2.5 0.70 U Freon-113 76-13-1 ND 10 0.40 U 108-87-2 Methyl cyclohexane

