LONG
ISLAND
ANALYTICAL
LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3100519 Alpha Geoscience
Ranco Sand and Stone
Q3 2023
Category B Report

110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

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EPA 245.1, Rev. 3.0(1994)

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ANALYSIS DATA SHEET

MW-3A

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-01
Sampled:	10/04/23 10:48	Method:	EPA 245.1, Rev. 3.0(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7439-97-6	Mercury	0.002	U

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ANALYSIS DATA SHEET

MW-6AR

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-02
Sampled:	10/04/23 08:30	Method:	EPA 245.1, Rev. 3.0(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7439-97-6	Mercury	0.002	U

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ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03
Sampled:	10/04/23 10:48	Method:	EPA 245.1, Rev. 3.0(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7439-97-6	Mercury	0.002	U

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NJDEP# NY012
PADEP# 68-2943

ANALYSIS DATA SHEET

MW-7B

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-04
Sampled:	10/03/23 16:11	Method:	EPA 245.1, Rev. 3.0(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7439-97-6	Mercury	0.002	U

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PADEP# 68-2943

ANALYSIS DATA SHEET

MW-7C

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-05
Sampled:	10/03/23 14:17	Method:	EPA 245.1, Rev. 3.0(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7439-97-6	Mercury	0.002	U

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ANALYSIS DATA SHEET

Dup

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-06
Sampled:	10/04/23 00:01	Method:	EPA 245.1, Rev. 3.0(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7439-97-6	Mercury	0.002	U

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ANALYSIS DATA SHEET

EQ

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-07
Sampled:	10/04/23 09:00	Method:	EPA 245.1, Rev. 3.0(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7439-97-6	Mercury	0.002	U

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 245.1, Rev. 3.0(1994)
Batch:	B341012	Preparation:	EPA 245.1
% Solids:		Laboratory ID:	B341012-MS1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.		QC LIMITS REC.
Mercury	0.00800	ND	0.0105	131	N	70 - 130

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Mercury	0.00800	0.0106	132	N	0.9	N	20	70 - 130

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3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 245.1, Rev. 3.0(1994)

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Preparation:	EPA 245.1
Batch:	B341012	Laboratory ID:	B341012-BS1
Column:		Initial/Final:	25 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.		QC LIMITS REC.
Mercury	0.00200	0.00249	124	*	84.5 - 115

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USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 245.1, Rev. 3.0(1994)

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Preparation:	EPA 245.1
Batch:	B341012	Laboratory ID:	B341012-BS2
Column:		Initial/Final:	25 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.		QC LIMITS REC.
Mercury	0.00100	0.00153	153	*	84.5 - 115

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METHOD DETECTION AND REPORTING LIMITS

Laboratory: Long Island Analytical Laboratories, Inc.
Work Order: 3100519

Client: Alpha Geoscience

Matrix: Non-Potable Water
Instrument: Hg

Analyte	MDL	MRL	Units	Method
Mercury	0.0007	0.002	mg/L	EPA 245.1, Rev. 3.0(1994)

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PREPARATION BATCH SUMMARY

EPA 245.1, Rev. 3.0(1994)

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Batch:	B341012 Batch Matrix: Non-Potable Water	Preparation:	EPA 245.1

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MW-3A	3100519-01	10/09/23 10:24	25.00	25.00
MW-6AR	3100519-02	10/09/23 10:24	25.00	25.00
MW-7A	3100519-03	10/09/23 10:24	25.00	25.00
MW-7B	3100519-04	10/09/23 10:24	25.00	25.00
MW-7C	3100519-05	10/09/23 10:24	25.00	25.00
Dup	3100519-06	10/09/23 10:24	25.00	25.00
EQ	3100519-07	10/09/23 10:24	25.00	25.00
Blank	B341012-BLK1	10/09/23 10:24	25.00	25.00
LCS	B341012-BS1	10/09/23 10:24	25.00	25.00
LCS	B341012-BS2	10/09/23 10:24	25.00	25.00
MW-7A	B341012-MS1	10/09/23 10:24	25.00	25.00
MW-7A	B341012-MSD1	10/09/23 10:24	25.00	25.00

Report Generated By Teledyne Leeman QuickTrace

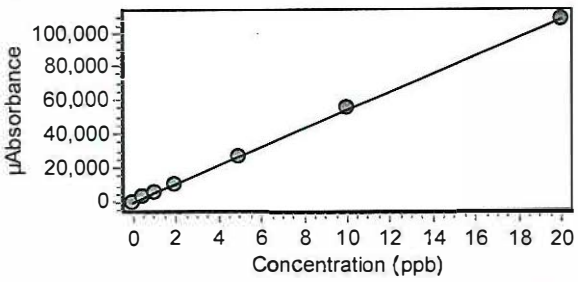
Analyst: CETAC
Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\102023hg acv.wszf
Creation Date: 10/20/2023 12:50:21 PM
Comment:

Results

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags	% Recovery
Single:		UNK	10/20/23 03:06:56 pm	0.000	23958	0.17			N/A
Replicates	23924.3	23963.8	23929.3	24012.8					
Calibration Blank		STD	10/20/23 03:11:04 pm	0.000	15	298.40			N/A
Replicates	67.5	11.5	-42.0	23.5					
Standard #1 (0.5 ppb)		STD	10/20/23 03:13:20 pm	0.500	3305	0.37	12.25%		N/A
Replicates	3297.5	3321.0	3308.0	3294.0					
Standard #2 (1.0 ppb)		STD	10/20/23 03:15:37 pm	1.000	5580	0.50	-1.56%		N/A
Replicates	5540.7	5578.7	5600.7	5599.7					
Standard #3 (2.0 ppb)		STD	10/20/23 03:17:53 pm	2.000	10689	0.40	-3.26%		N/A
Replicates	10644.0	10720.0	10660.5	10731.0					
Standard #4 (5.0 ppb)		STD	10/20/23 03:20:11 pm	5.000	26689	0.16	-1.78%		N/A
Replicates	26635.8	26674.8	26730.3	26714.8					
Standard #5 (10.0 ppb)		STD	10/20/23 03:22:28 pm	10.000	55454	0.14	2.62%		N/A
Replicates	55356.2	55433.7	55494.7	55532.7					
Standard #6 20.0ppb		STD	10/20/23 03:24:46 pm	20.000	97257	0.22	-9.81%		N/A
Replicates	97011.5	97168.5	97333.5	97515.5					
Replacement: Standard #6 20.0ppb		STD	10/20/23 03:28:20 pm	20.000	107246	0.25	0.00%		N/A
Replicates	106927.1	107151.6	107360.6	107544.6					

Calibration

Equation: Abs = 5375.629x + 288.094
R2: 0.99969 RSE: 6.58%
SEE: 753.1599
Flags:



ICV		ICV	10/20/23 03:32:50 pm	10.200	55214	0.17			102.18
Replicates	55094.3	55202.3	55241.3	55317.3					
CCV		CCV	10/20/23 03:35:09 pm	9.150	49470	0.17			91.49
Replicates	49374.6	49433.6	49502.6	49569.6					
ICB		ICB	10/20/23 03:37:28 pm	-0.110	-301	5.53			N/A
Replicates	-315.0	-304.5	-254.5	-329.5					
CCB		CCB	10/20/23 03:39:46 pm	-0.053	1	6.44			N/A
Replicates	10.4	19.9	-22.1	-6.1					

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual Flags	% Recovery
b342064-bs2		UNK	10/20/23 03:46:54 pm	0.410	2491	1.34		N/A
Replicates	2528.2	2459.2	2479.2	2499.2				
b342064-blk1		UNK	10/20/23 03:49:11 pm	0.044	525	9.86		N/A
Replicates	527.9	517.9	498.9	554.9				
b342064-bs1		UNK	10/20/23 03:54:08 pm	1.840	10194	0.16		N/A
Replicates	10171.3	10203.3	10204.3	10196.3				
3100213-01		UNK	10/20/23 03:56:25 pm	-0.015	210	28.23		N/A
Replicates	219.7	208.7	179.2	230.7				
3100213-02		UNK	10/20/23 03:58:42 pm	-0.020	183	21.89		N/A
Replicates	152.8	208.3	179.8	189.3				
3100502-02		UNK	10/20/23 04:00:59 pm	-0.006	255	66.51		N/A
Replicates	263.7	281.2	231.2	243.2				
3100503-02		UNK	10/20/23 04:03:16 pm	0.007	328	21.33		N/A
Replicates	322.9	339.9	328.4	320.9				
3101008-01		UNK	10/20/23 04:05:32 pm	-0.002	276	485.07		N/A
Replicates	279.8	201.8	277.8	344.8				
3101251-01		UNK	10/20/23 04:07:48 pm	-0.014	211	40.72		N/A
Replicates	201.1	257.1	197.1	187.1				
b342064-ms1		UNK	10/20/23 04:10:04 pm	8.250	44641	0.09		N/A
Replicates	44588.2	44657.2	44640.2	44678.2				
CCV		CCV	10/20/23 04:12:23 pm	9.340	50492	0.02		93.39
Replicates	50486.9	50502.9	50496.4	50482.9				
CCB		CCB	10/20/23 04:14:41 pm	-0.089	-188	6.54		N/A
Replicates	-179.1	-211.1	-214.6	-148.1				
Sample-00010011		UNK	10/20/23 04:16:58 pm	8.330	45060	0.13		N/A
Replicates	44979.4	45065.9	45070.4	45122.9				
b341066-bs1		UNK	10/20/23 04:59:27 pm	2.120	11671	0.04		N/A
Replicates	11672.8	11672.3	11675.8	11664.3				
b341066-blk1		UNK	10/20/23 05:01:44 pm	-0.034	105	17.66		N/A
Replicates	96.8	100.8	149.3	71.8				
3100519-01		UNK	10/20/23 05:04:01 pm	-0.012	223	10.43		N/A
Replicates	219.4	230.4	215.9	227.4				
3100519-02		UNK	10/20/23 05:06:17 pm	-0.016	204	24.69		N/A
Replicates	233.9	195.4	198.9	186.4				
3100519-03		UNK	10/20/23 05:08:34 pm	-0.008	245	44.83		N/A
Replicates	252.1	238.1	221.6	267.1				
3100519-04		UNK	10/20/23 05:10:50 pm	-0.024	159	16.98		N/A
Replicates	177.2	132.2	176.7	150.2				

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual Flags	% Recovery
3100519-05		UNK	10/20/23 05:13:07 pm	-0.005	259	83.18		N/A
Replicates	283.8	226.3	263.8	263.3				
3100519-06		UNK	10/20/23 05:15:24 pm	-0.015	209	36.40		N/A
Replicates	205.3	250.8	189.3	190.8				
3100519-07		UNK	10/20/23 05:17:41 pm	-0.020	182	28.30		N/A
Replicates	210.8	178.3	198.3	142.3				
CCV		CCV	10/20/23 05:22:48 pm	9.510	51415	0.24		95.11
Replicates	51255.1	51391.6	51470.1	51542.6				
CCB		CCB	10/20/23 05:25:06 pm	-0.079	-135	0.86		N/A
Replicates	-132.0	-140.0	-136.5	-133.0				
b341066-ms1		UNK	10/20/23 05:27:23 pm	8.950	48422	0.10		N/A
Replicates	48372.8	48388.3	48456.8	48471.3				
b341066-msd1		UNK	10/20/23 05:29:40 pm	9.060	49014	0.07		N/A
Replicates	48968.8	49002.3	49037.8	49046.3				
b342017-bs1		UNK	10/20/23 05:31:57 pm	12.000	64961	0.11		N/A
Replicates	64861.9	64987.9	64971.9	65020.9				
b342017-blk1		UNK	10/20/23 05:34:57 pm	0.068	651	10.73		N/A
Replicates	677.8	669.3	663.8	593.3				
b342017-blk2		UNK	10/20/23 05:37:32 pm	0.019	392	9.05		N/A
Replicates	380.7	401.2	388.2	398.2				
3101315-01		UNK	10/20/23 05:39:50 pm	1.650	9157	0.42		N/A
Replicates	9145.0	9115.5	9163.5	9203.5				
3101315-02		UNK	10/20/23 05:42:07 pm	0.977	5539	0.59		N/A
Replicates	5542.8	5497.8	5572.3	5542.8				
3101315-03		UNK	10/20/23 05:44:25 pm	1.160	6501	0.58		N/A
Replicates	6474.3	6467.8	6517.8	6542.8				
b342017-ms1		UNK	10/20/23 05:46:42 pm	8.750	47329	0.10		N/A
Replicates	47278.3	47305.3	47351.3	47380.3				
b342017-msd1		UNK	10/20/23 05:48:58 pm	7.740	41902	0.19		N/A
Replicates	41809.9	41871.4	41929.4	41998.4				
CCV		CCV	10/20/23 05:51:17 pm	0.266	1716	1.55	Q	2.66
Replicates	1726.2	1742.7	1701.7	1694.7				
CCB		CCB	10/20/23 05:56:55 pm	-0.043	59	6.06		N/A
Replicates	46.8	75.8	48.3	64.8				
CCV		CCV	10/20/23 05:59:14 pm	9.410	50876	0.15		94.11
Replicates	50813.7	50852.7	50850.2	50986.7				
3101315-04		UNK	10/20/23 06:01:31 pm	0.523	3100	0.70		N/A
Replicates	3071.7	3104.2	3107.2	3117.2				

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags	% Recovery
3101315-05		UNK	10/20/23 06:03:48 pm	1.130	6377	0.39			N/A
Replicates	6362.7	6371.7	6361.7	6411.7					
3101315-06		UNK	10/20/23 06:06:05 pm	0.660	3835	1.14			N/A
Replicates	3792.7	3889.2	3835.2	3823.2					
3101332-01		UNK	10/20/23 06:08:22 pm	0.649	3776	1.24			N/A
Replicates	3766.0	3840.0	3752.0	3747.0					
3101332-02		UNK	10/20/23 06:10:39 pm	0.418	2534	0.88			N/A
Replicates	2548.4	2541.9	2541.9	2504.9					
3101332-03		UNK	10/20/23 06:12:56 pm	1.320	7393	0.70			N/A
Replicates	7433.5	7378.5	7432.0	7329.5					
3101332-04		UNK	10/20/23 06:15:13 pm	2.190	12066	0.23			N/A
Replicates	12050.7	12043.2	12103.2	12067.2					
3101338-01		UNK	10/20/23 06:19:33 pm	-0.108	-293	3.37			N/A
Replicates	-280.1	-305.1	-273.1	-314.1					
3101338-02		UNK	10/20/23 06:27:53 pm	0.330	2064	2.36			N/A
Replicates	2024.9	2031.4	2090.4	2108.4					
3101338-03		UNK	10/20/23 06:30:10 pm	7.670	41525	0.08			N/A
Replicates	41505.7	41520.2	41503.2	41571.2					
3101339-01		UNK	10/20/23 06:32:28 pm	12.200	65959	0.32			N/A
Replicates	65688.4	65915.9	66061.4	66169.9					
CCV		CCV	10/20/23 06:36:02 pm	10.100	54379	0.14			100.62
Replicates	54345.3	54297.8	54404.8	54466.8					
CCB		CCB	10/20/23 06:38:21 pm	-0.098	-240	2.74			N/A
Replicates	-230.9	-259.9	-242.4	-227.9					
3101339-02		UNK	10/20/23 06:40:38 pm	5.980	32410	0.19			N/A
Replicates	32381.6	32347.6	32421.1	32487.6					
3101340-01		UNK	10/20/23 06:44:13 pm	1.720	9512	9.13			N/A
Replicates	8555.5	9145.5	9853.5	10493.5					
3101340-02		UNK	10/20/23 06:49:23 pm	0.908	5167	0.35			N/A
Replicates	5184.7	5166.2	5144.7	5174.2					
3101602-03		UNK	10/20/23 06:51:40 pm	-0.032	116	22.88			N/A
Replicates	134.1	83.6	84.6	163.6					
3101602-04		UNK	10/20/23 06:53:57 pm	-0.022	169	25.25			N/A
Replicates	187.3	202.3	145.8	142.3					
3101602-05		UNK	10/20/23 06:56:15 pm	-0.014	213	28.92			N/A
Replicates	237.6	209.1	220.6	186.1					
CCV		CCV	10/20/23 06:59:15 pm	8.950	48378	0.06		Q	89.46
Replicates	48343.3	48402.3	48404.3	48363.3					

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual Flags	% Recovery
CCB				CCB	10/20/23 07:01:33 pm	-0.052	6	9.16		N/A
	Replicates	12.1	-11.9	40.1	-15.9					
CCV				CCV	10/20/23 07:06:23 pm	9.280	50193	0.07		92.84
	Replicates	50150.0	50191.0	50191.0	50241.0					

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CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

EPA 200.7, Rev. 4.4(1994)

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SAMPLE DATA

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NJDEP# NY012
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ANALYSIS DATA SHEET

MW-3A

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-01
Sampled:	10/04/23 10:48	Method:	EPA 200.7, Rev. 4.4(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7429-90-5	Aluminum	0.25	U
7440-70-2	Calcium	4.29	
7429-90-5	Aluminum, Dissolved (dissolved)	0.07	
7440-36-0	Antimony	0.05	U
7440-36-0	Antimony, Dissolved (dissolved)	0.05	U
7440-38-2	Arsenic, Dissolved (dissolved)	0.05	U
7440-39-3	Barium, Dissolved (dissolved)	1.00	U
7440-41-7	Beryllium, Dissolved (dissolved)	0.02	U
7440-43-9	Cadmium, Dissolved (dissolved)	0.05	U
7440-70-2	Calcium, Dissolved (dissolved)	4.37	
7440-47-3	Chromium, Dissolved (dissolved)	0.05	U
7440-48-4	Cobalt, Dissolved (dissolved)	0.05	U
7440-50-8	Copper, Dissolved (dissolved)	0.05	U
7439-89-6	Iron, Dissolved (dissolved)	0.20	U
7439-92-1	Lead, Dissolved (dissolved)	0.05	U
7439-95-4	Magnesium, Dissolved (dissolved)	1.12	
7439-96-5	Manganese, Dissolved (dissolved)	0.05	U
7439-97-6	Mercury, Dissolved (dissolved)	0.002	U
7440-02-0	Nickel, Dissolved (dissolved)	0.05	U
7440-09-7	Potassium, Dissolved (dissolved)	1.45	
7782-49-2	Selenium, Dissolved (dissolved)	0.05	U
7440-22-4	Silver, Dissolved (dissolved)	0.05	U
7440-23-5	Sodium, Dissolved (dissolved)	4.07	
7440-28-0	Thallium, Dissolved (dissolved)	0.05	U
7440-62-2	Vanadium, Dissolved (dissolved)	0.05	U

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ANALYSIS DATA SHEET

MW-3A

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-01
Sampled:	10/04/23 10:48	Method:	EPA 200.7, Rev. 4.4(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7440-66-6	Zinc, Dissolved (dissolved)	0.05	U
7440-38-2	Arsenic	0.05	U
7440-39-3	Barium	0.05	U
7440-41-7	Beryllium	0.02	U
7440-43-9	Cadmium	0.01	U
7440-47-3	Chromium	0.05	U
7440-48-4	Cobalt	0.05	U
7440-50-8	Copper	0.05	U
7439-89-6	Iron	0.20	U
7439-92-1	Lead	0.05	U
7439-95-4	Magnesium	1.13	
7439-96-5	Manganese	0.05	U
7440-02-0	Nickel	0.05	U
7440-09-7	Potassium	1.42	
7782-49-2	Selenium	0.05	U
7440-22-4	Silver	0.05	U
7440-23-5	Sodium	4.13	
7440-28-0	Thallium	0.05	U
7440-62-2	Vanadium	0.05	U
7440-66-6	Zinc	0.05	U

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ANALYSIS DATA SHEET

MW-6AR

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-02
Sampled:	10/04/23 08:30	Method:	EPA 200.7, Rev. 4.4(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7429-90-5	Aluminum	0.25	U
7440-70-2	Calcium	26.1	
7429-90-5	Aluminum, Dissolved (dissolved)	0.05	U
7440-36-0	Antimony	0.05	U
7440-36-0	Antimony, Dissolved (dissolved)	0.05	U
7440-38-2	Arsenic, Dissolved (dissolved)	0.05	U
7440-39-3	Barium, Dissolved (dissolved)	1.00	U
7440-41-7	Beryllium, Dissolved (dissolved)	0.02	U
7440-43-9	Cadmium, Dissolved (dissolved)	0.05	U
7440-70-2	Calcium, Dissolved (dissolved)	23.9	
7440-47-3	Chromium, Dissolved (dissolved)	0.05	U
7440-48-4	Cobalt, Dissolved (dissolved)	0.05	U
7440-50-8	Copper, Dissolved (dissolved)	0.05	U
7439-89-6	Iron, Dissolved (dissolved)	0.20	U
7439-92-1	Lead, Dissolved (dissolved)	0.05	U
7439-95-4	Magnesium, Dissolved (dissolved)	5.12	
7439-96-5	Manganese, Dissolved (dissolved)	4.80	
7439-97-6	Mercury, Dissolved (dissolved)	0.002	U
7440-02-0	Nickel, Dissolved (dissolved)	0.05	U
7440-09-7	Potassium, Dissolved (dissolved)	2.43	
7782-49-2	Selenium, Dissolved (dissolved)	0.05	U
7440-22-4	Silver, Dissolved (dissolved)	0.05	U
7440-23-5	Sodium, Dissolved (dissolved)	10.7	
7440-28-0	Thallium, Dissolved (dissolved)	0.05	U
7440-62-2	Vanadium, Dissolved (dissolved)	0.05	U

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ANALYSIS DATA SHEET

MW-6AR

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-02
Sampled:	10/04/23 08:30	Method:	EPA 200.7, Rev. 4.4(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7440-66-6	Zinc, Dissolved (dissolved)	0.05	U
7440-38-2	Arsenic	0.05	U
7440-39-3	Barium	0.05	U
7440-41-7	Beryllium	0.02	U
7440-43-9	Cadmium	0.01	U
7440-47-3	Chromium	0.05	U
7440-48-4	Cobalt	0.05	U
7440-50-8	Copper	0.05	U
7439-89-6	Iron	0.20	U
7439-92-1	Lead	0.05	U
7439-95-4	Magnesium	5.53	
7439-96-5	Manganese	5.25	
7440-02-0	Nickel	0.05	U
7440-09-7	Potassium	2.77	
7782-49-2	Selenium	0.05	U
7440-22-4	Silver	0.05	U
7440-23-5	Sodium	11.9	
7440-28-0	Thallium	0.05	U
7440-62-2	Vanadium	0.05	U
7440-66-6	Zinc	0.05	U

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ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03
Sampled:	10/04/23 10:48	Method:	EPA 200.7, Rev. 4.4(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7429-90-5	Aluminum	0.25	U
7440-70-2	Calcium	20.7	
7429-90-5	Aluminum, Dissolved (dissolved)	0.05	U
7440-36-0	Antimony	0.05	U
7440-36-0	Antimony, Dissolved (dissolved)	0.05	U
7440-38-2	Arsenic, Dissolved (dissolved)	0.05	U
7440-39-3	Barium, Dissolved (dissolved)	1.00	U
7440-41-7	Beryllium, Dissolved (dissolved)	0.02	U
7440-43-9	Cadmium, Dissolved (dissolved)	0.05	U
7440-70-2	Calcium, Dissolved (dissolved)	20.4	
7440-47-3	Chromium, Dissolved (dissolved)	0.05	U
7440-48-4	Cobalt, Dissolved (dissolved)	0.05	U
7440-50-8	Copper, Dissolved (dissolved)	0.05	U
7439-89-6	Iron, Dissolved (dissolved)	0.20	U
7439-92-1	Lead, Dissolved (dissolved)	0.05	U
7439-95-4	Magnesium, Dissolved (dissolved)	7.12	
7439-96-5	Manganese, Dissolved (dissolved)	0.13	
7439-97-6	Mercury, Dissolved (dissolved)	0.002	U
7440-02-0	Nickel, Dissolved (dissolved)	0.05	U
7440-09-7	Potassium, Dissolved (dissolved)	1.72	
7782-49-2	Selenium, Dissolved (dissolved)	0.05	U
7440-22-4	Silver, Dissolved (dissolved)	0.05	U
7440-23-5	Sodium, Dissolved (dissolved)	9.07	
7440-28-0	Thallium, Dissolved (dissolved)	0.05	U
7440-62-2	Vanadium, Dissolved (dissolved)	0.05	U

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ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03
Sampled:	10/04/23 10:48	Method:	EPA 200.7, Rev. 4.4(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7440-66-6	Zinc, Dissolved (dissolved)	0.05	U
7440-38-2	Arsenic	0.05	U
7440-39-3	Barium	0.05	U
7440-41-7	Beryllium	0.02	U
7440-43-9	Cadmium	0.01	U
7440-47-3	Chromium	0.05	U
7440-48-4	Cobalt	0.05	U
7440-50-8	Copper	0.05	U
7439-89-6	Iron	0.20	U
7439-92-1	Lead	0.05	U
7439-95-4	Magnesium	7.30	
7439-96-5	Manganese	0.12	
7440-02-0	Nickel	0.05	U
7440-09-7	Potassium	1.81	
7782-49-2	Selenium	0.05	U
7440-22-4	Silver	0.05	U
7440-23-5	Sodium	9.52	
7440-28-0	Thallium	0.05	U
7440-62-2	Vanadium	0.05	U
7440-66-6	Zinc	0.05	U

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MW-7B

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-04
Sampled:	10/03/23 16:11	Method:	EPA 200.7, Rev. 4.4(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7429-90-5	Aluminum	0.25	U
7440-70-2	Calcium	25.2	
7429-90-5	Aluminum, Dissolved (dissolved)	0.05	U
7440-36-0	Antimony	0.05	U
7440-36-0	Antimony, Dissolved (dissolved)	0.05	U
7440-38-2	Arsenic, Dissolved (dissolved)	0.05	U
7440-39-3	Barium, Dissolved (dissolved)	1.00	U
7440-41-7	Beryllium, Dissolved (dissolved)	0.02	U
7440-43-9	Cadmium, Dissolved (dissolved)	0.05	U
7440-70-2	Calcium, Dissolved (dissolved)	25.1	
7440-47-3	Chromium, Dissolved (dissolved)	0.05	U
7440-48-4	Cobalt, Dissolved (dissolved)	0.05	U
7440-50-8	Copper, Dissolved (dissolved)	0.05	U
7439-89-6	Iron, Dissolved (dissolved)	0.20	U
7439-92-1	Lead, Dissolved (dissolved)	0.05	U
7439-95-4	Magnesium, Dissolved (dissolved)	8.23	
7439-96-5	Manganese, Dissolved (dissolved)	0.05	U
7439-97-6	Mercury, Dissolved (dissolved)	0.002	U
7440-02-0	Nickel, Dissolved (dissolved)	0.05	U
7440-09-7	Potassium, Dissolved (dissolved)	1.70	
7782-49-2	Selenium, Dissolved (dissolved)	0.05	U
7440-22-4	Silver, Dissolved (dissolved)	0.05	U
7440-23-5	Sodium, Dissolved (dissolved)	10.4	
7440-28-0	Thallium, Dissolved (dissolved)	0.05	U
7440-62-2	Vanadium, Dissolved (dissolved)	0.05	U

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ANALYSIS DATA SHEET

MW-7B

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-04
Sampled:	10/03/23 16:11	Method:	EPA 200.7, Rev. 4.4(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7440-66-6	Zinc, Dissolved (dissolved)	0.05	U
7440-38-2	Arsenic	0.05	U
7440-39-3	Barium	0.05	U
7440-41-7	Beryllium	0.02	U
7440-43-9	Cadmium	0.01	U
7440-47-3	Chromium	0.05	U
7440-48-4	Cobalt	0.05	U
7440-50-8	Copper	0.05	U
7439-89-6	Iron	0.20	U
7439-92-1	Lead	0.05	U
7439-95-4	Magnesium	8.36	
7439-96-5	Manganese	0.05	U
7440-02-0	Nickel	0.05	U
7440-09-7	Potassium	1.77	
7782-49-2	Selenium	0.05	U
7440-22-4	Silver	0.05	U
7440-23-5	Sodium	10.7	
7440-28-0	Thallium	0.05	U
7440-62-2	Vanadium	0.05	U
7440-66-6	Zinc	0.05	U

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MW-7C

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-05
Sampled:	10/03/23 14:17	Method:	EPA 200.7, Rev. 4.4(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7429-90-5	Aluminum	0.25	U
7440-70-2	Calcium	9.37	
7429-90-5	Aluminum, Dissolved (dissolved)	0.05	U
7440-36-0	Antimony	0.05	U
7440-36-0	Antimony, Dissolved (dissolved)	0.05	U
7440-38-2	Arsenic, Dissolved (dissolved)	0.05	U
7440-39-3	Barium, Dissolved (dissolved)	1.00	U
7440-41-7	Beryllium, Dissolved (dissolved)	0.02	U
7440-43-9	Cadmium, Dissolved (dissolved)	0.05	U
7440-70-2	Calcium, Dissolved (dissolved)	9.26	
7440-47-3	Chromium, Dissolved (dissolved)	0.05	U
7440-48-4	Cobalt, Dissolved (dissolved)	0.05	U
7440-50-8	Copper, Dissolved (dissolved)	0.05	U
7439-89-6	Iron, Dissolved (dissolved)	0.20	U
7439-92-1	Lead, Dissolved (dissolved)	0.05	U
7439-95-4	Magnesium, Dissolved (dissolved)	3.67	
7439-96-5	Manganese, Dissolved (dissolved)	0.05	U
7439-97-6	Mercury, Dissolved (dissolved)	0.002	U
7440-02-0	Nickel, Dissolved (dissolved)	0.05	U
7440-09-7	Potassium, Dissolved (dissolved)	2.34	
7782-49-2	Selenium, Dissolved (dissolved)	0.05	U
7440-22-4	Silver, Dissolved (dissolved)	0.05	U
7440-23-5	Sodium, Dissolved (dissolved)	11.7	
7440-28-0	Thallium, Dissolved (dissolved)	0.05	U
7440-62-2	Vanadium, Dissolved (dissolved)	0.05	U

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"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

ANALYSIS DATA SHEET

MW-7C

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-05
Sampled:	10/03/23 14:17	Method:	EPA 200.7, Rev. 4.4(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7440-66-6	Zinc, Dissolved (dissolved)	0.05	U
7440-38-2	Arsenic	0.05	U
7440-39-3	Barium	0.05	U
7440-41-7	Beryllium	0.02	U
7440-43-9	Cadmium	0.01	U
7440-47-3	Chromium	0.05	U
7440-48-4	Cobalt	0.05	U
7440-50-8	Copper	0.05	U
7439-89-6	Iron	0.20	U
7439-92-1	Lead	0.05	U
7439-95-4	Magnesium	3.68	
7439-96-5	Manganese	0.05	U
7440-02-0	Nickel	0.05	U
7440-09-7	Potassium	2.44	
7782-49-2	Selenium	0.05	U
7440-22-4	Silver	0.05	U
7440-23-5	Sodium	12.0	
7440-28-0	Thallium	0.05	U
7440-62-2	Vanadium	0.05	U
7440-66-6	Zinc	0.05	U

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ANALYSIS DATA SHEET

Dup

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-06
Sampled:	10/04/23 00:01	Method:	EPA 200.7, Rev. 4.4(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7429-90-5	Aluminum	0.25	U
7440-70-2	Calcium	25.1	
7429-90-5	Aluminum, Dissolved (dissolved)	0.05	U
7440-36-0	Antimony	0.05	U
7440-36-0	Antimony, Dissolved (dissolved)	0.05	U
7440-38-2	Arsenic, Dissolved (dissolved)	0.05	U
7440-39-3	Barium, Dissolved (dissolved)	1.00	U
7440-41-7	Beryllium, Dissolved (dissolved)	0.02	U
7440-43-9	Cadmium, Dissolved (dissolved)	0.05	U
7440-70-2	Calcium, Dissolved (dissolved)	25.2	
7440-47-3	Chromium, Dissolved (dissolved)	0.05	U
7440-48-4	Cobalt, Dissolved (dissolved)	0.05	U
7440-50-8	Copper, Dissolved (dissolved)	0.05	U
7439-89-6	Iron, Dissolved (dissolved)	0.20	U
7439-92-1	Lead, Dissolved (dissolved)	0.05	U
7439-95-4	Magnesium, Dissolved (dissolved)	5.35	
7439-96-5	Manganese, Dissolved (dissolved)	5.08	
7439-97-6	Mercury, Dissolved (dissolved)	0.002	U
7440-02-0	Nickel, Dissolved (dissolved)	0.05	U
7440-09-7	Potassium, Dissolved (dissolved)	2.63	
7782-49-2	Selenium, Dissolved (dissolved)	0.05	U
7440-22-4	Silver, Dissolved (dissolved)	0.05	U
7440-23-5	Sodium, Dissolved (dissolved)	11.3	
7440-28-0	Thallium, Dissolved (dissolved)	0.05	U
7440-62-2	Vanadium, Dissolved (dissolved)	0.05	U

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ANALYSIS DATA SHEET

Dup

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-06
Sampled:	10/04/23 00:01	Method:	EPA 200.7, Rev. 4.4(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7440-66-6	Zinc, Dissolved (dissolved)	0.05	U
7440-38-2	Arsenic	0.05	U
7440-39-3	Barium	0.05	U
7440-41-7	Beryllium	0.02	U
7440-43-9	Cadmium	0.01	U
7440-47-3	Chromium	0.05	U
7440-48-4	Cobalt	0.05	U
7440-50-8	Copper	0.05	U
7439-89-6	Iron	0.20	U
7439-92-1	Lead	0.05	U
7439-95-4	Magnesium	5.35	
7439-96-5	Manganese	5.11	
7440-02-0	Nickel	0.05	U
7440-09-7	Potassium	2.74	
7782-49-2	Selenium	0.05	U
7440-22-4	Silver	0.05	U
7440-23-5	Sodium	11.6	
7440-28-0	Thallium	0.05	U
7440-62-2	Vanadium	0.05	U
7440-66-6	Zinc	0.05	U

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ANALYSIS DATA SHEET

EQ

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-07
Sampled:	10/04/23 09:00	Method:	EPA 200.7, Rev. 4.4(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7429-90-5	Aluminum	0.25	U
7440-70-2	Calcium	1.00	U
7429-90-5	Aluminum, Dissolved (dissolved)	0.05	U
7440-36-0	Antimony	0.05	U
7440-36-0	Antimony, Dissolved (dissolved)	0.05	U
7440-38-2	Arsenic, Dissolved (dissolved)	0.05	U
7440-39-3	Barium, Dissolved (dissolved)	1.00	U
7440-41-7	Beryllium, Dissolved (dissolved)	0.02	U
7440-43-9	Cadmium, Dissolved (dissolved)	0.05	U
7440-70-2	Calcium, Dissolved (dissolved)	0.17	
7440-47-3	Chromium, Dissolved (dissolved)	0.05	U
7440-48-4	Cobalt, Dissolved (dissolved)	0.05	U
7440-50-8	Copper, Dissolved (dissolved)	0.05	U
7439-89-6	Iron, Dissolved (dissolved)	0.20	U
7439-92-1	Lead, Dissolved (dissolved)	0.05	U
7439-95-4	Magnesium, Dissolved (dissolved)	0.05	U
7439-96-5	Manganese, Dissolved (dissolved)	0.05	U
7439-97-6	Mercury, Dissolved (dissolved)	0.002	U
7440-02-0	Nickel, Dissolved (dissolved)	0.05	U
7440-09-7	Potassium, Dissolved (dissolved)	0.25	U
7782-49-2	Selenium, Dissolved (dissolved)	0.05	U
7440-22-4	Silver, Dissolved (dissolved)	0.05	U
7440-23-5	Sodium, Dissolved (dissolved)	0.31	
7440-28-0	Thallium, Dissolved (dissolved)	0.05	U
7440-62-2	Vanadium, Dissolved (dissolved)	0.05	U

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ANALYSIS DATA SHEET

EQ

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-07
Sampled:	10/04/23 09:00	Method:	EPA 200.7, Rev. 4.4(1994)
% Solids:	0.00	Dilution:	1

CAS NO.	Analyte	Concentration (mg/L)	Q
7440-66-6	Zinc, Dissolved (dissolved)	0.05	U
7440-38-2	Arsenic	0.05	U
7440-39-3	Barium	0.05	U
7440-41-7	Beryllium	0.02	U
7440-43-9	Cadmium	0.01	U
7440-47-3	Chromium	0.05	U
7440-48-4	Cobalt	0.05	U
7440-50-8	Copper	0.05	U
7439-89-6	Iron	0.20	U
7439-92-1	Lead	0.05	U
7439-95-4	Magnesium	0.10	U
7439-96-5	Manganese	0.05	U
7440-02-0	Nickel	0.05	U
7440-09-7	Potassium	0.25	U
7782-49-2	Selenium	0.05	U
7440-22-4	Silver	0.05	U
7440-23-5	Sodium	0.25	U
7440-28-0	Thallium	0.05	U
7440-62-2	Vanadium	0.05	U
7440-66-6	Zinc	0.05	U

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METHOD DETECTION AND REPORTING LIMITS

Laboratory: Long Island Analytical Laboratories, Inc.
Work Order: 3100519
Client: Alpha Geoscience
Matrix: Non-Potable Water
Instrument: Hg

Analyte	MDL	MRL	Units	Method
Mercury, Dissolved (dissolved)	0.000006	0.002	mg/L	EPA 245.1, Rev. 3.0(1994)

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METHOD DETECTION AND REPORTING LIMITS

Laboratory: Long Island Analytical Laboratories, Inc.
Work Order: 3100519
Client: Alpha Geoscience
Matrix: Non-Potable Water
Instrument: ICP-5110

Analyte	MDL	MRL	Units	Method
Aluminum	0.11	0.25	mg/L	EPA 200.7, Rev. 4.4(1994)
Aluminum, Dissolved (dissolved)	0.009	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Antimony	0.01	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Antimony, Dissolved (dissolved)	0.01	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Arsenic	0.01	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Arsenic, Dissolved (dissolved)	0.02	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Barium	0.009	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Barium, Dissolved (dissolved)	0.02	1.00	mg/L	EPA 200.7, Rev. 4.4(1994)
Beryllium	0.004	0.02	mg/L	EPA 200.7, Rev. 4.4(1994)
Beryllium, Dissolved (dissolved)	0.005	0.02	mg/L	EPA 200.7, Rev. 4.4(1994)
Cadmium	0.001	0.01	mg/L	EPA 200.7, Rev. 4.4(1994)
Cadmium, Dissolved (dissolved)	0.001	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Calcium	0.12	1.00	mg/L	EPA 200.7, Rev. 4.4(1994)
Calcium, Dissolved (dissolved)	0.05	0.10	mg/L	EPA 200.7, Rev. 4.4(1994)
Chromium	0.008	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Chromium, Dissolved (dissolved)	0.02	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Cobalt	0.007	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Cobalt, Dissolved (dissolved)	0.02	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Copper	0.02	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Copper, Dissolved (dissolved)	0.01	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Iron	0.18	0.20	mg/L	EPA 200.7, Rev. 4.4(1994)
Iron, Dissolved (dissolved)	0.08	0.20	mg/L	EPA 200.7, Rev. 4.4(1994)
Lead	0.006	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Lead, Dissolved (dissolved)	0.02	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Magnesium	0.04	0.10	mg/L	EPA 200.7, Rev. 4.4(1994)
Magnesium, Dissolved (dissolved)	0.01	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Manganese	0.03	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Manganese, Dissolved (dissolved)	0.005	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Nickel	0.008	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Nickel, Dissolved (dissolved)	0.02	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Potassium	0.08	0.25	mg/L	EPA 200.7, Rev. 4.4(1994)
Potassium, Dissolved (dissolved)	0.08	0.25	mg/L	EPA 200.7, Rev. 4.4(1994)
Selenium	0.02	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)

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NJDEP# NY012
PADEP# 68-2943

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Long Island Analytical Laboratories, Inc.
Work Order: 3100519
Client: Alpha Geoscience
Matrix: Non-Potable Water
Instrument: ICP-5110

Analyte	MDL	MRL	Units	Method
Selenium, Dissolved (dissolved)	0.008	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Silver	0.02	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Silver, Dissolved (dissolved)	0.001	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Sodium	0.04	0.25	mg/L	EPA 200.7, Rev. 4.4(1994)
Sodium, Dissolved (dissolved)	0.02	0.10	mg/L	EPA 200.7, Rev. 4.4(1994)
Thallium	0.01	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Thallium, Dissolved (dissolved)	0.02	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Vanadium	0.01	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Vanadium, Dissolved (dissolved)	0.01	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Zinc	0.03	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)
Zinc, Dissolved (dissolved)	0.02	0.05	mg/L	EPA 200.7, Rev. 4.4(1994)

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 200.7, Rev. 4.4(1994)
Batch:	B341014	Preparation:	EPA 200.7, Rev. 4.4(1994)
% Solids:		Laboratory ID:	B341014-MS1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	QC LIMITS REC.
Aluminum, Dissolved (dissolved)	8.00	0.0290	7.81	97	70 - 130
Antimony, Dissolved (dissolved)	2.00	ND	2.01	100	70 - 130
Arsenic, Dissolved (dissolved)	2.00	ND	2.02	101	70 - 130
Barium, Dissolved (dissolved)	2.00	0.0213	2.07	102	70 - 130
Beryllium, Dissolved (dissolved)	2.00	ND	2.04	102	70 - 130
Cadmium, Dissolved (dissolved)	2.00	ND	2.01	101	70 - 130
Calcium, Dissolved (dissolved)	20.0	20.4	41.6	106	70 - 130
Chromium, Dissolved (dissolved)	2.00	ND	1.99	99	70 - 130
Cobalt, Dissolved (dissolved)	2.00	ND	2.02	101	70 - 130
Copper, Dissolved (dissolved)	2.00	ND	1.94	97	70 - 130
Iron, Dissolved (dissolved)	8.00	ND	8.27	103	70 - 130
Lead, Dissolved (dissolved)	2.00	ND	1.95	97	70 - 130
Magnesium, Dissolved (dissolved)	20.0	7.12	27.0	99	70 - 130
Manganese, Dissolved (dissolved)	2.00	0.129	2.14	101	70 - 130
Nickel, Dissolved (dissolved)	2.00	ND	1.98	99	70 - 130
Potassium, Dissolved (dissolved)	8.00	1.72	9.87	102	70 - 130
Selenium, Dissolved (dissolved)	2.00	ND	1.97	98	70 - 130
Silver, Dissolved (dissolved)	0.500	ND	0.541	108	70 - 130
Sodium, Dissolved (dissolved)	8.00	9.07	18.5	118	70 - 130
Thallium, Dissolved (dissolved)	2.00	ND	1.96	98	70 - 130
Vanadium, Dissolved (dissolved)	2.00	ND	2.00	100	70 - 130
Zinc, Dissolved (dissolved)	2.00	ND	2.02	101	70 - 130

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 200.7, Rev. 4.4(1994)
Batch:	B341014	Preparation:	EPA 200.7, Rev. 4.4(1994)
% Solids:		Laboratory ID:	B341014-MS1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Aluminum, Dissolved (dissolved)	8.00	7.62	95	2	20	70 - 130
Antimony, Dissolved (dissolved)	2.00	1.95	98	3	20	70 - 130
Arsenic, Dissolved (dissolved)	2.00	1.98	99	2	20	70 - 130
Barium, Dissolved (dissolved)	2.00	2.03	100	2	20	70 - 130
Beryllium, Dissolved (dissolved)	2.00	1.99	99	3	20	70 - 130
Cadmium, Dissolved (dissolved)	2.00	1.97	98	2	20	70 - 130
Calcium, Dissolved (dissolved)	20.0	41.0	103	1	20	70 - 130
Chromium, Dissolved (dissolved)	2.00	1.94	97	2	20	70 - 130
Cobalt, Dissolved (dissolved)	2.00	1.97	99	2	20	70 - 130
Copper, Dissolved (dissolved)	2.00	1.90	95	2	20	70 - 130
Iron, Dissolved (dissolved)	8.00	8.08	101	2	20	70 - 130
Lead, Dissolved (dissolved)	2.00	1.90	95	3	20	70 - 130
Magnesium, Dissolved (dissolved)	20.0	26.5	97	2	20	70 - 130
Manganese, Dissolved (dissolved)	2.00	2.10	98	2	20	70 - 130
Nickel, Dissolved (dissolved)	2.00	1.93	96	3	20	70 - 130
Potassium, Dissolved (dissolved)	8.00	9.77	101	1	20	70 - 130
Selenium, Dissolved (dissolved)	2.00	1.94	97	1	20	70 - 130
Silver, Dissolved (dissolved)	0.500	0.528	106	2	20	70 - 130
Sodium, Dissolved (dissolved)	8.00	18.3	115	1	20	70 - 130
Thallium, Dissolved (dissolved)	2.00	1.92	96	2	20	70 - 130
Vanadium, Dissolved (dissolved)	2.00	1.95	97	2	20	70 - 130
Zinc, Dissolved (dissolved)	2.00	1.97	98	3	20	70 - 130

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NJDEP# NY012
PADEP# 68-2943

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 200.7, Rev. 4.4(1994)
Batch:	B341059	Preparation:	EPA 200.7, Rev. 4.4(1994)
% Solids:		Laboratory ID:	B341059-MS1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	QC LIMITS REC.
Aluminum	8.00	ND	7.67	96	70 - 130
Calcium	20.0	20.7	40.5	99	70 - 130
Antimony	2.00	ND	1.95	97	70 - 130
Arsenic	2.00	ND	1.96	98	70 - 130
Barium	2.00	0.0220	2.05	101	70 - 130
Beryllium	2.00	ND	1.97	99	70 - 130
Cadmium	2.00	ND	1.92	96	70 - 130
Chromium	2.00	ND	1.92	96	70 - 130
Cobalt	2.00	ND	1.94	97	70 - 130
Copper	2.00	ND	1.91	96	70 - 130
Iron	8.00	ND	8.03	100	70 - 130
Lead	2.00	ND	1.87	94	70 - 130
Magnesium	20.0	7.30	26.3	95	70 - 130
Manganese	2.00	0.116	2.06	97	70 - 130
Nickel	2.00	ND	1.90	95	70 - 130
Potassium	8.00	1.81	9.91	101	70 - 130
Selenium	2.00	ND	1.9	94	70 - 130
Silver	0.500	ND	0.526	105	70 - 130
Sodium	8.00	9.52	18.6	114	70 - 130
Thallium	2.00	ND	1.92	96	70 - 130
Vanadium	2.00	ND	1.94	97	70 - 130
Zinc	2.00	ND	1.93	97	70 - 130

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 200.7, Rev. 4.4(1994)
Batch:	B341059	Preparation:	EPA 200.7, Rev. 4.4(1994)
% Solids:		Laboratory ID:	B341059-MS1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Aluminum	8.00	7.71	96	0.6	20	70 - 130
Calcium	20.0	40.7	100	0.5	20	70 - 130
Antimony	2.00	1.95	98	0.3	20	70 - 130
Arsenic	2.00	1.97	98	0.7	20	70 - 130
Barium	2.00	2.06	102	0.8	20	70 - 130
Beryllium	2.00	1.99	99	0.7	20	70 - 130
Cadmium	2.00	1.93	96	0.5	20	70 - 130
Chromium	2.00	1.93	96	0.4	20	70 - 130
Cobalt	2.00	1.95	98	0.5	20	70 - 130
Copper	2.00	1.93	96	0.6	20	70 - 130
Iron	8.00	8.07	101	0.5	20	70 - 130
Lead	2.00	1.88	94	0.5	20	70 - 130
Magnesium	20.0	26.4	96	0.5	20	70 - 130
Manganese	2.00	2.07	98	0.5	20	70 - 130
Nickel	2.00	1.91	96	0.5	20	70 - 130
Potassium	8.00	9.92	101	0.1	20	70 - 130
Selenium	2.00	1.9	94	0.5	20	70 - 130
Silver	0.500	0.529	106	0.6	20	70 - 130
Sodium	8.00	18.7	114	0.2	20	70 - 130
Thallium	2.00	1.92	96	0.5	20	70 - 130
Vanadium	2.00	1.95	98	0.5	20	70 - 130
Zinc	2.00	1.94	97	0.5	20	70 - 130

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 200.7, Rev. 4.4(1994)

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Preparation:	EPA 200.7, Rev. 4.4(1994)
Batch:	B341014	Laboratory ID:	B341014-BS1
Column:		Initial/Final:	25 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Aluminum, Dissolved (dissolved)	8.00	7.79	97	85 - 115
Antimony, Dissolved (dissolved)	2.00	2.00	100	85 - 115
Arsenic, Dissolved (dissolved)	2.00	2.02	101	85 - 115
Barium, Dissolved (dissolved)	2.00	2.05	102	85 - 115
Beryllium, Dissolved (dissolved)	2.00	2.05	102	85 - 115
Cadmium, Dissolved (dissolved)	2.00	2.04	102	85 - 115
Calcium, Dissolved (dissolved)	20.0	20.2	101	85 - 115
Chromium, Dissolved (dissolved)	2.00	2.00	100	85 - 115
Cobalt, Dissolved (dissolved)	2.00	2.03	101	85 - 115
Copper, Dissolved (dissolved)	2.00	1.93	96	85 - 115
Iron, Dissolved (dissolved)	8.00	8.29	104	85 - 115
Lead, Dissolved (dissolved)	2.00	1.96	98	85 - 115
Magnesium, Dissolved (dissolved)	20.0	19.3	97	85 - 115
Manganese, Dissolved (dissolved)	2.00	2.01	100	85 - 115
Nickel, Dissolved (dissolved)	2.00	2.00	100	85 - 115
Potassium, Dissolved (dissolved)	8.00	7.59	95	85 - 115
Selenium, Dissolved (dissolved)	2.00	2.00	100	85 - 115
Silver, Dissolved (dissolved)	0.500	0.539	108	85 - 115
Sodium, Dissolved (dissolved)	8.00	7.70	96	85 - 115
Thallium, Dissolved (dissolved)	2.00	1.97	98	85 - 115
Vanadium, Dissolved (dissolved)	2.00	1.99	100	85 - 115
Zinc, Dissolved (dissolved)	2.00	2.18	109	85 - 115

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 200.7, Rev. 4.4(1994)

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Preparation:	EPA 200.7, Rev. 4.4(1994)
Batch:	B341059	Laboratory ID:	B341059-BS1
Column:		Initial/Final:	25 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Aluminum	8.00	7.44	93	85 - 115
Calcium	20.0	19.3	97	85 - 115
Antimony	2.00	1.90	95	85 - 115
Arsenic	2.00	1.92	96	85 - 115
Barium	2.00	1.97	98	85 - 115
Beryllium	2.00	1.95	97	85 - 115
Cadmium	2.00	1.95	97	85 - 115
Chromium	2.00	1.91	95	85 - 115
Cobalt	2.00	1.94	97	85 - 115
Copper	2.00	1.85	92	85 - 115
Iron	8.00	7.90	99	85 - 115
Lead	2.00	1.88	94	85 - 115
Magnesium	20.0	18.4	92	85 - 115
Manganese	2.00	1.92	96	85 - 115
Nickel	2.00	1.91	96	85 - 115
Potassium	8.00	7.27	91	85 - 115
Selenium	2.00	1.9	94	85 - 115
Silver	0.500	0.515	103	85 - 115
Sodium	8.00	7.37	92	85 - 115
Thallium	2.00	1.87	93	85 - 115
Vanadium	2.00	1.91	96	85 - 115
Zinc	2.00	1.93	97	85 - 115

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

PREPARATION BATCH SUMMARY

EPA 200.7, Rev. 4.4(1994)

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Batch:	B341014	Batch Matrix:	Non-Potable Water	Preparation:	EPA 200.7, Rev. 4.4(1994)

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MW-3A	3100519-01	10/09/23 09:33	25.00	25.00
MW-6AR	3100519-02	10/09/23 09:33	25.00	25.00
MW-7A	3100519-03	10/09/23 09:33	25.00	25.00
MW-7B	3100519-04	10/09/23 09:33	25.00	25.00
MW-7C	3100519-05	10/09/23 09:33	25.00	25.00
Dup	3100519-06	10/09/23 09:33	25.00	25.00
EQ	3100519-07	10/09/23 09:33	25.00	25.00
Blank	B341014-BLK1	10/09/23 09:33	25.00	25.00
LCS	B341014-BS1	10/09/23 09:33	25.00	25.00
MW-7A	B341014-MS1	10/09/23 09:33	25.00	25.00
MW-7A	B341014-MSD1	10/09/23 09:33	25.00	25.00
Reference	B341014-SRM1	10/09/23 09:33	25.00	50.00

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

PREPARATION BATCH SUMMARY

EPA 200.7, Rev. 4.4(1994)

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Batch:	B341059	Batch Matrix:	Non-Potable Water	Preparation:	EPA 200.7, Rev. 4.4(1994)

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MW-3A	3100519-01	10/10/23 09:12	25.00	25.00
MW-6AR	3100519-02	10/10/23 09:12	25.00	25.00
MW-7A	3100519-03	10/10/23 09:12	25.00	25.00
MW-7B	3100519-04	10/10/23 09:12	25.00	25.00
MW-7C	3100519-05	10/10/23 09:12	25.00	25.00
Dup	3100519-06	10/10/23 09:12	25.00	25.00
EQ	3100519-07	10/10/23 09:12	25.00	25.00
Blank	B341059-BLK1	10/10/23 09:12	25.00	25.00
LCS	B341059-BS1	10/10/23 09:12	25.00	25.00
MW-7A	B341059-MS1	10/10/23 09:12	25.00	25.00
MW-7A	B341059-MSD1	10/10/23 09:12	25.00	25.00
Reference	B341059-SRM1	10/10/23 09:12	25.00	50.00

Solution Name: B341014-BLK1

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
B341014-BLK1	10/16/2023 11:20:22 AM	1:1	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	-0.000261 u	ppm	0.000271	> 100.00	2.717678	-0.000261 u
Al (237.312 nm)	0.034399	ppm	0.022747	66.13	42.988258	0.034399
As (193.696 nm)	0.002919 u	ppm	0.003521	> 100.00	3.037626	0.002919 u
Ba (493.408 nm)	0.000156	ppm	0.000023	14.53	302.313820	0.000156
Be (313.042 nm)	-0.000176 u	ppm	0.000008	4.30	1770.538736	-0.000176 u
Ca (317.933 nm)	0.052491	ppm	0.025311	48.22	4908.087165	0.052491
Cd (214.439 nm)	0.000122 u	ppm	0.000189	> 100.00	1.390798	0.000122 u
Co (230.786 nm)	0.000815 u	ppm	0.000911	> 100.00	6.336328	0.000815 u
Cr (267.716 nm)	0.000084 u	ppm	0.000157	> 100.00	6.934384	0.000084 u
Cu (327.395 nm)	0.000008 u	ppm	0.000207	> 100.00	13.725705	0.000008 u
Fe (238.204 nm)	0.052512	ppm	0.027458	52.29	664.902263	0.052512
K (766.491 nm)	0.000277 u	ppm	0.000284	> 100.00	26.155959	0.000277 u
Mg (279.800 nm)	0.041764	ppm	0.024164	57.86	32.760661	0.041764
Mn (257.610 nm)	0.000165	ppm	0.000034	20.89	32.638747	0.000165
Mo (202.032 nm)	0.001148	ppm	0.000347	30.20	4.670778	0.001148
Na (589.592 nm)	0.021449	ppm	0.000281	1.31	4385.795462	0.021449
Ni (231.604 nm)	0.000498 u	ppm	0.000691	> 100.00	1.804040	0.000498 u
Pb (220.353 nm)	0.000191 u	ppm	0.002605	> 100.00	4.283967	0.000191 u
Sb (217.582 nm)	0.003885	ppm	0.002134	54.92	3.832477	0.003885
Se (196.026 nm)	-0.000909 u	ppm	0.004305	> 100.00	3.115436	-0.000909 u
Tl (351.923 nm)	-0.001209 u	ppm	0.006313	> 100.00	2.695212	-0.001209 u
V (292.401 nm)	0.000185 u	ppm	0.000510	> 100.00	35.772362	0.000185 u
Zn (213.857 nm)	0.000972	ppm	0.000234	24.06	28.564087	0.000972

Solution Name: B341014-BS1

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
B341014-BS1	10/16/2023 11:23:35 AM	1:2	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.538967	ppm	0.001557	0.29	4598.268626	0.538967
Al (237.312 nm)	7.790497	ppm	0.020640	0.26	8631.160649	7.790497
As (193.696 nm)	2.020370	ppm	0.013362	0.66	645.937429	2.020370
Ba (493.408 nm)	2.047455	ppm	0.007089	0.35	1557200.182366	2.047455
Be (313.042 nm)	2.046421	ppm	0.002132	0.10	1290668.969615	2.046421
Ca (317.933 nm)	20.225771	ppm	0.041175	0.20	304692.470605	20.225771
Cd (214.439 nm)	2.037982	ppm	0.004102	0.20	12212.594168	2.037982
Co (230.786 nm)	2.025696	ppm	0.001554	0.08	7482.208324	2.025696
Cr (267.716 nm)	1.995984	ppm	0.003184	0.16	26045.106870	1.995984
Cu (327.395 nm)	1.927137	ppm	0.005450	0.28	29982.327128	1.927137
Fe (238.204 nm)	8.291194	ppm	0.016807	0.20	102254.753092	8.291194
K (766.491 nm)	7.586082	ppm	0.028681	0.38	313526.141517	7.586082
Mg (279.800 nm)	19.322863	ppm	0.010379	0.05	13270.695634	19.322863
Mn (257.610 nm)	2.005379	ppm	0.001000	0.05	233831.280535	2.005379
Mo (202.032 nm)	1.933255	ppm	0.004122	0.21	4196.434483	1.933255
Na (589.592 nm)	7.700004	ppm	0.019561	0.25	1234628.371691	7.700004
Ni (231.604 nm)	1.995512	ppm	0.007280	0.36	2186.142120	1.995512
Pb (220.353 nm)	1.960752	ppm	0.003722	0.19	1741.191495	1.960752
Sb (217.582 nm)	1.997298	ppm	0.008274	0.41	595.341673	1.997298
Se (196.026 nm)	2.003957	ppm	0.013693	0.68	587.685247	2.003957
Tl (351.923 nm)	1.968905	ppm	0.012045	0.61	1527.662833	1.968905
V (292.401 nm)	1.994680	ppm	0.002058	0.10	24534.014897	1.994680
Zn (213.857 nm)	2.183894	ppm	0.001540	0.07	25206.671843	2.183894

Solution Name: B341014-SRM1

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
B341014-SRM1	10/16/2023 11:26:48 AM	1:3	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.026841	ppm	0.000292	1.09	233.691606	0.026841
Al (237.312 nm)	0.363772	ppm	0.003630	1.00	407.696511	0.363772
As (193.696 nm)	0.092054	ppm	0.002698	2.93	31.442009	0.092054
Ba (493.408 nm)	0.096581	ppm	0.000445	0.46	73630.700476	0.096581
Be (313.042 nm)	0.095668	ppm	0.000415	0.43	62130.616516	0.095668
Ca (317.933 nm)	0.952971	ppm	0.004646	0.49	18289.638209	0.952971
Cd (214.439 nm)	0.098366	ppm	0.000469	0.48	590.084349	0.098366
Co (230.786 nm)	0.096389	ppm	0.001110	1.15	359.195236	0.096389
Cr (267.716 nm)	0.094175	ppm	0.000527	0.56	1234.429027	0.094175
Cu (327.395 nm)	0.088643	ppm	0.000495	0.56	1392.080272	0.088643
Fe (238.204 nm)	0.417816	ppm	0.002212	0.53	5169.410672	0.417816
K (766.491 nm)	0.347294	ppm	0.002225	0.64	14367.392468	0.347294
Mg (279.800 nm)	0.898211	ppm	0.005622	0.63	620.776681	0.898211
Mn (257.610 nm)	0.094902	ppm	0.000380	0.40	11078.531653	0.094902
Mo (202.032 nm)	0.092106	ppm	0.001306	1.42	202.007135	0.092106
Na (589.592 nm)	0.339991	ppm	0.001885	0.55	55422.010809	0.339991
Ni (231.604 nm)	0.094477	ppm	0.002157	2.28	104.701190	0.094477
Pb (220.353 nm)	0.090813	ppm	0.002893	3.19	84.567841	0.090813
Sb (217.582 nm)	0.098500	ppm	0.006478	6.58	31.907733	0.098500
Se (196.026 nm)	0.096796	ppm	0.004239	4.38	31.603804	0.096796
Tl (351.923 nm)	0.081238	ppm	0.005886	7.25	66.513308	0.081238
V (292.401 nm)	0.092853	ppm	0.000471	0.51	1173.997914	0.092853
Zn (213.857 nm)	0.098147	ppm	0.000475	0.48	1149.403034	0.098147

Solution Name: 3100519-01

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100519-01	10/16/2023 11:30:01 AM	1:4	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.000003 u	ppm	0.000938	> 100.00	4.969353	0.000003 u
Al (237.312 nm)	0.070836	ppm	0.001600	2.26	83.334068	0.070836
As (193.696 nm)	0.001586 u	ppm	0.003854	> 100.00	2.612660	0.001586 u
Ba (493.408 nm)	0.017567	ppm	0.000041	0.23	13543.420661	0.017567
Be (313.042 nm)	0.000074	ppm	0.000022	30.46	1927.854449	0.000074
Ca (317.933 nm)	4.370258	ppm	0.008171	0.19	69072.128396	4.370258
Cd (214.439 nm)	0.000534	ppm	0.000263	49.35	3.857001	0.000534
Co (230.786 nm)	0.000939	ppm	0.000370	39.41	6.793670	0.000939
Cr (267.716 nm)	0.000360	ppm	0.000139	38.62	10.533460	0.000360
Cu (327.395 nm)	-0.000083 u	ppm	0.000245	> 100.00	12.314949	-0.000083 u
Fe (238.204 nm)	0.039417	ppm	0.000271	0.69	503.429385	0.039417
K (766.491 nm)	1.450390	ppm	0.000751	0.05	59955.241372	1.450390
Mg (279.800 nm)	1.116287	ppm	0.002669	0.24	770.502229	1.116287
Mn (257.610 nm)	0.007573	ppm	0.000033	0.43	896.356699	0.007573
Mo (202.032 nm)	0.001423 u	ppm	0.001388	97.60	5.266180	0.001423 u
Na (589.592 nm)	4.070969	ppm	0.003648	0.09	653191.762225	4.070969
Ni (231.604 nm)	0.001248 u	ppm	0.001448	> 100.00	2.624786	0.001248 u
Pb (220.353 nm)	0.000640 u	ppm	0.001399	> 100.00	4.681776	0.000640 u
Sb (217.582 nm)	0.002386 u	ppm	0.008382	> 100.00	3.387558	0.002386 u
Se (196.026 nm)	0.006361	ppm	0.002051	32.24	5.234962	0.006361
Tl (351.923 nm)	-0.003046 u	ppm	0.005273	> 100.00	1.273315	-0.003046 u
V (292.401 nm)	0.000393	ppm	0.000337	85.82	38.319057	0.000393
Zn (213.857 nm)	0.005535	ppm	0.000160	2.89	81.198259	0.005535

Solution Name: 3100519-02

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100519-02	10/16/2023 11:33:14 AM	1:5	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.001935	ppm	0.000806	41.63	21.434077	0.001935
Al (237.312 nm)	0.040865	ppm	0.002708	6.63	50.147282	0.040865
As (193.696 nm)	0.005890	ppm	0.003429	58.22	3.984402	0.005890
Ba (493.408 nm)	0.019308	ppm	0.000048	0.25	14866.749415	0.019308
Be (313.042 nm)	0.000062	ppm	0.000030	48.67	1920.214614	0.000062
Ca (317.933 nm)	23.907264	ppm	0.046679	0.20	359401.175208	23.907264
Cd (214.439 nm)	0.000047 u	ppm	0.000279	> 100.00	0.941298	0.000047 u
Co (230.786 nm)	0.001089	ppm	0.000404	37.12	7.346929	0.001089
Cr (267.716 nm)	0.000263 u	ppm	0.000255	96.94	9.270401	0.000263 u
Cu (327.395 nm)	-0.000070 u	ppm	0.000240	> 100.00	12.523940	-0.000070 u
Fe (238.204 nm)	0.029983	ppm	0.000499	1.66	387.101623	0.029983
K (766.491 nm)	2.434373	ppm	0.006604	0.27	100620.515344	2.434373
Mg (279.800 nm)	5.115208	ppm	0.009794	0.19	3516.064299	5.115208
Mn (257.610 nm)	4.801947	ppm	0.003073	0.06	559898.174571	4.801947
Mo (202.032 nm)	0.002054	ppm	0.000644	31.34	6.635979	0.002054
Na (589.592 nm)	10.709250	ppm	0.027415	0.26	1716763.776117	10.709250
Ni (231.604 nm)	-0.000038 u	ppm	0.001139	> 100.00	1.217229	-0.000038 u
Pb (220.353 nm)	0.000994 u	ppm	0.001703	> 100.00	4.995578	0.000994 u
Sb (217.582 nm)	-0.000726 u	ppm	0.003456	> 100.00	2.464078	-0.000726 u
Se (196.026 nm)	0.007281 u	ppm	0.005252	72.13	5.503287	0.007281 u
Tl (351.923 nm)	0.001933 u	ppm	0.003294	> 100.00	5.127291	0.001933 u
V (292.401 nm)	0.000507 u	ppm	0.000379	74.65	39.728879	0.000507 u
Zn (213.857 nm)	0.002735	ppm	0.000296	10.81	48.906646	0.002735

Solution Name: 3100519-03

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100519-03	10/16/2023 11:36:27 AM	1:6	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	-0.000179 u	ppm	0.000358	> 100.00	3.417865	-0.000179 u
Al (237.312 nm)	0.029042	ppm	0.003766	12.97	37.056318	0.029042
As (193.696 nm)	-0.000061 u	ppm	0.002397	> 100.00	2.087784	-0.000061 u
Ba (493.408 nm)	0.021314	ppm	0.000090	0.42	16392.664835	0.021314
Be (313.042 nm)	0.000058	ppm	0.000039	68.21	1917.699222	0.000058
Ca (317.933 nm)	20.424757	ppm	0.025583	0.13	307649.495066	20.424757
Cd (214.439 nm)	0.000328	ppm	0.000189	57.76	2.625524	0.000328
Co (230.786 nm)	0.000490 u	ppm	0.000525	> 100.00	5.136037	0.000490 u
Cr (267.716 nm)	0.000126 u	ppm	0.000217	> 100.00	7.477051	0.000126 u
Cu (327.395 nm)	-0.000082 u	ppm	0.000216	> 100.00	12.329108	-0.000082 u
Fe (238.204 nm)	0.013262	ppm	0.000215	1.62	180.922225	0.013262
K (766.491 nm)	1.724477	ppm	0.006328	0.37	71282.513138	1.724477
Mg (279.800 nm)	7.123871	ppm	0.015856	0.22	4895.163658	7.123871
Mn (257.610 nm)	0.128597	ppm	0.000234	0.18	15007.197528	0.128597
Mo (202.032 nm)	0.000185 u	ppm	0.000985	> 100.00	2.580029	0.000185 u
Na (589.592 nm)	9.066080	ppm	0.028111	0.31	1453498.340258	9.066080
Ni (231.604 nm)	0.000113 u	ppm	0.000400	> 100.00	1.382193	0.000113 u
Pb (220.353 nm)	-0.000129 u	ppm	0.002293	> 100.00	4.000744	-0.000129 u
Sb (217.582 nm)	0.001408 u	ppm	0.002460	> 100.00	3.097272	0.001408 u
Se (196.026 nm)	0.002130 u	ppm	0.005277	> 100.00	4.001566	0.002130 u
Tl (351.923 nm)	0.001467 u	ppm	0.007526	> 100.00	4.766740	0.001467 u
V (292.401 nm)	0.000994	ppm	0.000434	43.67	45.711858	0.000994
Zn (213.857 nm)	0.003160	ppm	0.000285	9.03	53.805096	0.003160

Solution Name: 3100519-04

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100519-04	10/16/2023 11:39:40 AM	1:7	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	-0.001147 u	ppm	0.000848	73.87	-4.836143	-0.001147 u
Al (237.312 nm)	0.007629	ppm	0.004136	54.21	13.345867	0.007629
As (193.696 nm)	0.002568 u	ppm	0.004539	> 100.00	2.925741	0.002568 u
Ba (493.408 nm)	0.018997	ppm	0.000087	0.46	14630.472208	0.018997
Be (313.042 nm)	-0.000228 u	ppm	0.000024	10.32	1737.902834	-0.000228 u
Ca (317.933 nm)	25.083202	ppm	0.035583	0.14	376876.156180	25.083202
Cd (214.439 nm)	0.000691	ppm	0.000243	35.17	4.802596	0.000691
Co (230.786 nm)	0.001507	ppm	0.000728	48.27	8.891697	0.001507
Cr (267.716 nm)	-0.000134 u	ppm	0.000129	95.86	4.087322	-0.000134 u
Cu (327.395 nm)	-0.000321 u	ppm	0.000440	> 100.00	8.616276	-0.000321 u
Fe (238.204 nm)	0.009750	ppm	0.000217	2.23	137.619228	0.009750
K (766.491 nm)	1.701347	ppm	0.006687	0.39	70326.595140	1.701347
Mg (279.800 nm)	8.234138	ppm	0.022608	0.27	5657.445700	8.234138
Mn (257.610 nm)	0.005443	ppm	0.000012	0.21	648.064430	0.005443
Mo (202.032 nm)	0.001233	ppm	0.000569	46.18	4.855051	0.001233
Na (589.592 nm)	10.360690	ppm	0.048573	0.47	1660918.048360	10.360690
Ni (231.604 nm)	-0.000468 u	ppm	0.000413	88.25	0.745801	-0.000468 u
Pb (220.353 nm)	0.000704 u	ppm	0.001832	> 100.00	4.738754	0.000704 u
Sb (217.582 nm)	0.003102 u	ppm	0.004916	> 100.00	3.599958	0.003102 u
Se (196.026 nm)	0.002775 u	ppm	0.002817	> 100.00	4.189596	0.002775 u
Tl (351.923 nm)	-0.002763 u	ppm	0.002430	87.94	1.492744	-0.002763 u
V (292.401 nm)	0.000255 u	ppm	0.000646	> 100.00	36.628927	0.000255 u
Zn (213.857 nm)	0.002532	ppm	0.000283	11.18	46.557368	0.002532

Solution Name: 3100519-05

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100519-05	10/16/2023 11:42:53 AM	1:8	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.000277	ppm	0.000279	> 100.00	7.304163	0.000277
Al (237.312 nm)	0.008528	ppm	0.001938	22.73	14.341383	0.008528
As (193.696 nm)	-0.000007 u	ppm	0.000574	> 100.00	2.105116	-0.000007 u
Ba (493.408 nm)	0.027575	ppm	0.000031	0.11	21153.662632	0.027575
Be (313.042 nm)	-0.000223 u	ppm	0.000011	4.96	1740.739220	-0.000223 u
Ca (317.933 nm)	9.258005	ppm	0.010520	0.11	141706.324592	9.258005
Cd (214.439 nm)	0.000290	ppm	0.000236	81.48	2.396772	0.000290
Co (230.786 nm)	0.000264 u	ppm	0.000397	> 100.00	4.302780	0.000264 u
Cr (267.716 nm)	0.000616	ppm	0.000369	59.91	13.877499	0.000616
Cu (327.395 nm)	0.000078 u	ppm	0.000428	> 100.00	14.816642	0.000078 u
Fe (238.204 nm)	0.011560	ppm	0.000492	4.26	159.938884	0.011560
K (766.491 nm)	2.340807	ppm	0.001485	0.06	96753.692026	2.340807
Mg (279.800 nm)	3.670582	ppm	0.005539	0.15	2524.219230	3.670582
Mn (257.610 nm)	0.001091	ppm	0.000037	3.42	140.618030	0.001091
Mo (202.032 nm)	0.000687 u	ppm	0.001136	> 100.00	3.671070	0.000687 u
Na (589.592 nm)	11.749739	ppm	0.028892	0.25	1883468.673927	11.749739
Ni (231.604 nm)	0.000410 u	ppm	0.001612	> 100.00	1.707295	0.000410 u
Pb (220.353 nm)	-0.000615 u	ppm	0.001749	> 100.00	3.569812	-0.000615 u
Sb (217.582 nm)	0.004604 u	ppm	0.004017	87.25	4.045900	0.004604 u
Se (196.026 nm)	0.004716	ppm	0.003533	74.92	4.755576	0.004716
Tl (351.923 nm)	-0.001095 u	ppm	0.002991	> 100.00	2.783697	-0.001095 u
V (292.401 nm)	0.000332	ppm	0.000304	91.54	37.578649	0.000332
Zn (213.857 nm)	0.007661	ppm	0.000331	4.32	105.721051	0.007661

Solution Name: 3100519-06

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100519-06	10/16/2023 11:46:06 AM	1:9	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.002415	ppm	0.000394	16.30	25.524729	0.002415
Al (237.312 nm)	0.001541 u	ppm	0.001817	> 100.00	6.605466	0.001541 u
As (193.696 nm)	0.001552 u	ppm	0.006754	> 100.00	2.601995	0.001552 u
Ba (493.408 nm)	0.020348	ppm	0.000050	0.24	15658.104776	0.020348
Be (313.042 nm)	-0.000236 u	ppm	0.000018	7.52	1732.753917	-0.000236 u
Ca (317.933 nm)	25.211394	ppm	0.032679	0.13	378781.149727	25.211394
Cd (214.439 nm)	0.000517	ppm	0.000209	40.47	3.758278	0.000517
Co (230.786 nm)	0.001307	ppm	0.000346	26.46	8.151853	0.001307
Cr (267.716 nm)	0.000382	ppm	0.000309	81.05	10.819313	0.000382
Cu (327.395 nm)	0.009024	ppm	0.000778	8.62	153.933738	0.009024
Fe (238.204 nm)	0.026909	ppm	0.000405	1.51	349.197630	0.026909
K (766.491 nm)	2.629059	ppm	0.004517	0.17	108666.317506	2.629059
Mg (279.800 nm)	5.350720	ppm	0.013434	0.25	3677.761307	5.350720
Mn (257.610 nm)	5.084745	ppm	0.003586	0.07	592871.114763	5.084745
Mo (202.032 nm)	0.002764	ppm	0.000771	27.90	8.175547	0.002764
Na (589.592 nm)	11.289095	ppm	0.014905	0.13	1809665.352283	11.289095
Ni (231.604 nm)	-0.001236 u	ppm	0.000956	77.37	-0.094130	-0.001236 u
Pb (220.353 nm)	0.000051 u	ppm	0.001121	> 100.00	4.160278	0.000051 u
Sb (217.582 nm)	0.001496 u	ppm	0.012308	> 100.00	3.123408	0.001496 u
Se (196.026 nm)	0.003617 u	ppm	0.005296	> 100.00	4.435116	0.003617 u
Tl (351.923 nm)	-0.004981 u	ppm	0.003446	69.18	-0.224374	-0.004981 u
V (292.401 nm)	0.000461 u	ppm	0.000689	> 100.00	39.158316	0.000461 u
Zn (213.857 nm)	0.008252	ppm	0.000144	1.74	112.543803	0.008252

Test Report

101623_Metals.esws

Agilent Technologies

Solution Name: 3100519-07

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100519-07	10/16/2023 11:49:19 AM	1:10	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.000429 u	ppm	0.000695	> 100.00	8.597911	0.000429 u
Al (237.312 nm)	0.006502	ppm	0.002088	32.11	12.098533	0.006502
As (193.696 nm)	0.000216 u	ppm	0.002891	> 100.00	2.176008	0.000216 u
Ba (493.408 nm)	0.000752	ppm	0.000008	1.00	755.718383	0.000752
Be (313.042 nm)	-0.000066 u	ppm	0.000037	55.40	1839.617168	-0.000066 u
Ca (317.933 nm)	0.172893	ppm	0.004849	2.80	6697.319573	0.172893
Cd (214.439 nm)	0.000173 u	ppm	0.000341	> 100.00	1.694104	0.000173 u
Co (230.786 nm)	0.000907	ppm	0.000712	78.49	6.675958	0.000907
Cr (267.716 nm)	-0.000249 u	ppm	0.000064	25.57	2.588041	-0.000249 u
Cu (327.395 nm)	0.015806	ppm	0.000255	1.61	259.410324	0.015806
Fe (238.204 nm)	0.055004	ppm	0.000412	0.75	695.635191	0.055004
K (766.491 nm)	0.159423	ppm	0.000196	0.12	6603.241832	0.159423
Mg (279.800 nm)	0.014008	ppm	0.002944	21.02	13.704082	0.014008
Mn (257.610 nm)	0.002559	ppm	0.000800	31.26	311.755053	0.002559
Mo (202.032 nm)	0.000783	ppm	0.000659	84.19	3.879025	0.000783
Na (589.592 nm)	0.305397	ppm	0.001556	0.51	49879.355576	0.305397
Ni (231.604 nm)	-0.001216 u	ppm	0.000988	81.28	-0.072775	-0.001216 u
Pb (220.353 nm)	0.001790 u	ppm	0.001626	90.85	5.700236	0.001790 u
Sb (217.582 nm)	0.002728 u	ppm	0.004004	> 100.00	3.489038	0.002728 u
Se (196.026 nm)	0.003235 u	ppm	0.004817	> 100.00	4.323743	0.003235 u
Tl (351.923 nm)	-0.007506 u	ppm	0.002963	39.48	-2.178719	-0.007506 u
V (292.401 nm)	0.000242 u	ppm	0.000321	> 100.00	36.469621	0.000242 u
Zn (213.857 nm)	0.024556	ppm	0.000247	1.01	300.592158	0.024556

Solution Name: SEQ-CCV1

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
SEQ-CCV1	10/16/2023 11:52:32 AM	S1:5	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.540514	ppm	0.001321	0.24	4611.457184	0.540514
Al (237.312 nm)	10.120206	ppm	0.030859	0.30	11210.801923	10.120206
As (193.696 nm)	5.299416	ppm	0.009483	0.18	1690.869305	5.299416
Ba (493.408 nm)	5.304103	ppm	0.012520	0.24	4033765.367032	5.304103
Be (313.042 nm)	2.153199	ppm	0.009771	0.45	1357914.994019	2.153199
Ca (317.933 nm)	51.664376	ppm	0.293421	0.57	771884.838639	51.664376
Cd (214.439 nm)	2.609588	ppm	0.012313	0.47	15637.758954	2.609588
Co (230.786 nm)	5.220525	ppm	0.011515	0.22	19277.532074	5.220525
Cr (267.716 nm)	5.177347	ppm	0.014585	0.28	67548.636272	5.177347
Cu (327.395 nm)	5.194249	ppm	0.029406	0.57	80788.886931	5.194249
Fe (238.204 nm)	10.870340	ppm	0.035778	0.33	134057.789682	10.870340
K (766.491 nm)	24.913664	ppm	0.040118	0.16	1029626.288210	24.913664
Mg (279.800 nm)	51.519020	ppm	0.133577	0.26	35375.794674	51.519020
Mn (257.610 nm)	5.264369	ppm	0.014137	0.27	613814.492730	5.264369
Mo (202.032 nm)	5.233649	ppm	0.008298	0.16	11356.740585	5.233649
Na (589.592 nm)	50.887003	ppm	0.246354	0.48	8153962.168210	50.887003
Ni (231.604 nm)	5.217600	ppm	0.019816	0.38	5714.000850	5.217600
Pb (220.353 nm)	5.185900	ppm	0.018402	0.35	4598.427904	5.185900
Sb (217.582 nm)	5.254872	ppm	0.018841	0.36	1561.967785	5.254872
Se (196.026 nm)	5.256165	ppm	0.025108	0.48	1535.949159	5.256165
Tl (351.923 nm)	5.116254	ppm	0.020376	0.40	3963.869273	5.116254
V (292.401 nm)	5.224110	ppm	0.011043	0.21	64200.877316	5.224110
Zn (213.857 nm)	5.318203	ppm	0.023393	0.44	61358.200761	5.318203

Solution Name: SEQ-CCB1

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
SEQ-CCB1	10/16/2023 11:55:45 AM	S1:4	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	-0.000235 u	ppm	0.000540	> 100.00	2.942170	-0.000235 u
Al (237.312 nm)	0.008595	ppm	0.003215	37.40	14.415244	0.008595
As (193.696 nm)	0.003576 u	ppm	0.003942	> 100.00	3.246718	0.003576 u
Ba (493.408 nm)	0.000869	ppm	0.000123	14.20	844.919831	0.000869
Be (313.042 nm)	0.000411	ppm	0.000039	9.57	2140.560744	0.000411
Ca (317.933 nm)	0.011783	ppm	0.002392	20.31	4303.141631	0.011783
Cd (214.439 nm)	0.000732	ppm	0.000134	18.37	5.045444	0.000732
Co (230.786 nm)	0.002139	ppm	0.000310	14.50	11.222598	0.002139
Cr (267.716 nm)	0.000503	ppm	0.000087	17.34	12.406469	0.000503
Cu (327.395 nm)	0.000606	ppm	0.000461	76.13	23.027558	0.000606
Fe (238.204 nm)	0.000776	ppm	0.000249	32.06	26.954543	0.000776
K (766.491 nm)	0.004285	ppm	0.000663	15.46	191.806918	0.004285
Mg (279.800 nm)	0.012036	ppm	0.001268	10.53	12.350602	0.012036
Mn (257.610 nm)	0.001084	ppm	0.000116	10.67	139.786972	0.001084
Mo (202.032 nm)	0.001927	ppm	0.000506	26.25	6.360711	0.001927
Na (589.592 nm)	0.012303	ppm	0.000503	4.09	2920.488933	0.012303
Ni (231.604 nm)	0.001022 u	ppm	0.001120	> 100.00	2.377932	0.001022 u
Pb (220.353 nm)	0.001282 u	ppm	0.002932	> 100.00	5.250120	0.001282 u
Sb (217.582 nm)	0.008259	ppm	0.006872	83.20	5.130264	0.008259
Se (196.026 nm)	0.002292 u	ppm	0.005226	> 100.00	4.048595	0.002292 u
Tl (351.923 nm)	-0.005487 u	ppm	0.002819	51.38	-0.616063	-0.005487 u
V (292.401 nm)	0.000823	ppm	0.000172	20.92	43.611579	0.000823
Zn (213.857 nm)	0.001010	ppm	0.000247	24.48	29.002244	0.001010

Solution Name: B341014-MS1

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
B341014-MS1	10/16/2023 11:58:59 AM	1:11	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.540911	ppm	0.001866	0.35	4614.834941	0.540911
Al (237.312 nm)	7.810512	ppm	0.033527	0.43	8653.323516	7.810512
As (193.696 nm)	2.019999	ppm	0.011674	0.58	645.819360	2.019999
Ba (493.408 nm)	2.069703	ppm	0.008384	0.41	1574119.327079	2.069703
Be (313.042 nm)	2.037571	ppm	0.004272	0.21	1285094.966008	2.037571
Ca (317.933 nm)	41.571189	ppm	0.166538	0.40	621895.361978	41.571189
Cd (214.439 nm)	2.014617	ppm	0.007651	0.38	12072.586394	2.014617
Co (230.786 nm)	2.015585	ppm	0.003664	0.18	7444.876026	2.015585
Cr (267.716 nm)	1.987807	ppm	0.004613	0.23	25938.430887	1.987807
Cu (327.395 nm)	1.940705	ppm	0.004164	0.21	30193.329534	1.940705
Fe (238.204 nm)	8.266147	ppm	0.027418	0.33	101945.904010	8.266147
K (766.491 nm)	9.869950	ppm	0.035139	0.36	407911.951630	9.869950
Mg (279.800 nm)	27.004068	ppm	0.040277	0.15	18544.424448	27.004068
Mn (257.610 nm)	2.141828	ppm	0.004767	0.22	249740.649605	2.141828
Mo (202.032 nm)	1.935275	ppm	0.004721	0.24	4200.817358	1.935275
Na (589.592 nm)	18.521833	ppm	0.033133	0.18	2968480.006119	18.521833
Ni (231.604 nm)	1.977319	ppm	0.005929	0.30	2166.222086	1.977319
Pb (220.353 nm)	1.949782	ppm	0.005814	0.30	1731.473433	1.949782
Sb (217.582 nm)	2.005513	ppm	0.007732	0.39	597.779417	2.005513
Se (196.026 nm)	1.967885	ppm	0.006915	0.35	577.167511	1.967885
Tl (351.923 nm)	1.964915	ppm	0.009335	0.48	1524.574520	1.964915
V (292.401 nm)	1.995091	ppm	0.003091	0.15	24539.058074	1.995091
Zn (213.857 nm)	2.019233	ppm	0.003803	0.19	23307.451249	2.019233

Solution Name: B341014-MSD1

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
B341014-MSD1	10/16/2023 12:02:13 PM	1:12	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.527752	ppm	0.000671	0.13	4502.690685	0.527752
Al (237.312 nm)	7.620312	ppm	0.013938	0.18	8442.718672	7.620312
As (193.696 nm)	1.978712	ppm	0.010727	0.54	632.662357	1.978712
Ba (493.408 nm)	2.029638	ppm	0.004049	0.20	1543651.147229	2.029638
Be (313.042 nm)	1.987031	ppm	0.004176	0.21	1253266.152615	1.987031
Ca (317.933 nm)	40.988588	ppm	0.089818	0.22	613237.638370	40.988588
Cd (214.439 nm)	1.966763	ppm	0.004869	0.25	11785.839014	1.966763
Co (230.786 nm)	1.970369	ppm	0.005532	0.28	7277.939793	1.970369
Cr (267.716 nm)	1.939743	ppm	0.002419	0.12	25311.399232	1.939743
Cu (327.395 nm)	1.900372	ppm	0.002980	0.16	29566.113227	1.900372
Fe (238.204 nm)	8.077337	ppm	0.035522	0.44	99617.723227	8.077337
K (766.491 nm)	9.765281	ppm	0.038065	0.39	403586.297461	9.765281
Mg (279.800 nm)	26.501223	ppm	0.045603	0.17	18199.183066	26.501223
Mn (257.610 nm)	2.095258	ppm	0.003477	0.17	244310.816034	2.095258
Mo (202.032 nm)	1.890313	ppm	0.004433	0.23	4103.271310	1.890313
Na (589.592 nm)	18.304469	ppm	0.131527	0.72	2933654.429666	18.304469
Ni (231.604 nm)	1.926827	ppm	0.003088	0.16	2110.938982	1.926827
Pb (220.353 nm)	1.901515	ppm	0.007494	0.39	1688.712485	1.901515
Sb (217.582 nm)	1.950686	ppm	0.004131	0.21	581.510438	1.950686
Se (196.026 nm)	1.939413	ppm	0.009719	0.50	568.865629	1.939413
Tl (351.923 nm)	1.919010	ppm	0.005691	0.30	1489.041418	1.919010
V (292.401 nm)	1.949038	ppm	0.003133	0.16	23973.395058	1.949038
Zn (213.857 nm)	1.968969	ppm	0.004774	0.24	22727.701249	1.968969

Solution Name: B341059-BLK1

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
B341059-BLK1	10/16/2023 12:05:26 PM	1:13	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.000232 u	ppm	0.000390	> 100.00	6.915776	0.000232 u
Al (237.312 nm)	0.004013	ppm	0.002384	59.42	9.341791	0.004013
As (193.696 nm)	0.002545 u	ppm	0.003789	> 100.00	2.918291	0.002545 u
Ba (493.408 nm)	0.000291	ppm	0.000020	6.88	405.056806	0.000291
Be (313.042 nm)	0.000124	ppm	0.000060	48.83	1959.354941	0.000124
Ca (317.933 nm)	0.013655	ppm	0.000350	2.57	4330.964086	0.013655
Cd (214.439 nm)	0.000379	ppm	0.000214	56.63	2.927868	0.000379
Co (230.786 nm)	0.000688	ppm	0.000350	50.91	5.867627	0.000688
Cr (267.716 nm)	0.000080 u	ppm	0.000214	> 100.00	6.877188	0.000080 u
Cu (327.395 nm)	0.000244 u	ppm	0.000627	> 100.00	17.404923	0.000244 u
Fe (238.204 nm)	0.004944	ppm	0.000248	5.01	78.356172	0.004944
K (766.491 nm)	-0.000647 u	ppm	0.000244	37.65	-12.035087	-0.000647 u
Mg (279.800 nm)	0.007985	ppm	0.003419	42.82	9.568871	0.007985
Mn (257.610 nm)	0.000282	ppm	0.000057	20.39	46.276578	0.000282
Mo (202.032 nm)	0.001400	ppm	0.000914	65.26	5.217883	0.001400
Na (589.592 nm)	0.014960	ppm	0.000129	0.86	3346.234394	0.014960
Ni (231.604 nm)	0.000032 u	ppm	0.000872	> 100.00	1.293258	0.000032 u
Pb (220.353 nm)	0.000394 u	ppm	0.001611	> 100.00	4.464028	0.000394 u
Sb (217.582 nm)	-0.001491 u	ppm	0.003125	> 100.00	2.237173	-0.001491 u
Se (196.026 nm)	-0.001177 u	ppm	0.006179	> 100.00	3.037346	-0.001177 u
Tl (351.923 nm)	-0.000659 u	ppm	0.002518	> 100.00	3.120951	-0.000659 u
V (292.401 nm)	0.000050 u	ppm	0.000245	> 100.00	34.113346	0.000050 u
Zn (213.857 nm)	0.000810	ppm	0.000173	21.35	26.695494	0.000810

Solution Name: B341059-BS1

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
B341059-BS1	10/16/2023 12:08:39 PM	1:14	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.515207	ppm	0.001617	0.31	4395.777237	0.515207
Al (237.312 nm)	7.439408	ppm	0.020054	0.27	8242.406950	7.439408
As (193.696 nm)	1.924277	ppm	0.006123	0.32	615.315524	1.924277
Ba (493.408 nm)	1.966663	ppm	0.004799	0.24	1495761.147548	1.966663
Be (313.042 nm)	1.946453	ppm	0.007301	0.38	1227711.446935	1.946453
Ca (317.933 nm)	19.311853	ppm	0.060854	0.32	291111.209283	19.311853
Cd (214.439 nm)	1.946587	ppm	0.004989	0.26	11664.940219	1.946587
Co (230.786 nm)	1.936887	ppm	0.004526	0.23	7154.322447	1.936887
Cr (267.716 nm)	1.908835	ppm	0.005952	0.31	24908.177090	1.908835
Cu (327.395 nm)	1.849713	ppm	0.004727	0.26	28778.324155	1.849713
Fe (238.204 nm)	7.900482	ppm	0.030731	0.39	97436.946812	7.900482
K (766.491 nm)	7.266527	ppm	0.017955	0.25	300319.809459	7.266527
Mg (279.800 nm)	18.406848	ppm	0.043981	0.24	12641.781488	18.406848
Mn (257.610 nm)	1.918014	ppm	0.004506	0.23	223644.919742	1.918014
Mo (202.032 nm)	1.853504	ppm	0.002407	0.13	4023.413033	1.853504
Na (589.592 nm)	7.372438	ppm	0.032897	0.45	1182146.421574	7.372438
Ni (231.604 nm)	1.910047	ppm	0.004554	0.24	2092.566407	1.910047
Pb (220.353 nm)	1.875514	ppm	0.015096	0.80	1665.677266	1.875514
Sb (217.582 nm)	1.903948	ppm	0.009631	0.51	567.641786	1.903948
Se (196.026 nm)	1.876203	ppm	0.004620	0.25	550.435169	1.876203
Tl (351.923 nm)	1.869856	ppm	0.004006	0.21	1450.993447	1.869856
V (292.401 nm)	1.911079	ppm	0.005817	0.30	23507.153230	1.911079
Zn (213.857 nm)	1.934218	ppm	0.003317	0.17	22326.886660	1.934218

Solution Name: B341059-SRM1

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
B341059-SRM1	10/16/2023 12:11:52 PM	1:15	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.028921	ppm	0.000662	2.29	251.422803	0.028921
Al (237.312 nm)	0.365785	ppm	0.001672	0.46	409.925684	0.365785
As (193.696 nm)	0.096543	ppm	0.006652	6.89	32.872460	0.096543
Ba (493.408 nm)	0.097797	ppm	0.000108	0.11	74554.748910	0.097797
Be (313.042 nm)	0.096958	ppm	0.000173	0.18	62943.530395	0.096958
Ca (317.933 nm)	0.961989	ppm	0.003548	0.37	18423.657459	0.961989
Cd (214.439 nm)	0.099546	ppm	0.000313	0.31	597.153452	0.099546
Co (230.786 nm)	0.097256	ppm	0.000905	0.93	362.398113	0.097256
Cr (267.716 nm)	0.095513	ppm	0.000276	0.29	1251.885530	0.095513
Cu (327.395 nm)	0.089754	ppm	0.000197	0.22	1409.362205	0.089754
Fe (238.204 nm)	0.401163	ppm	0.001565	0.39	4964.063523	0.401163
K (766.491 nm)	0.350688	ppm	0.000605	0.17	14507.653117	0.350688
Mg (279.800 nm)	0.909336	ppm	0.007508	0.83	628.414933	0.909336
Mn (257.610 nm)	0.096095	ppm	0.000248	0.26	11217.665968	0.096095
Mo (202.032 nm)	0.094035	ppm	0.001059	1.13	206.191613	0.094035
Na (589.592 nm)	0.338544	ppm	0.000528	0.16	55190.074284	0.338544
Ni (231.604 nm)	0.094607	ppm	0.001559	1.65	104.843899	0.094607
Pb (220.353 nm)	0.093488	ppm	0.003617	3.87	86.937915	0.093488
Sb (217.582 nm)	0.101980	ppm	0.005986	5.87	32.940414	0.101980
Se (196.026 nm)	0.100213	ppm	0.006684	6.67	32.600038	0.100213
Tl (351.923 nm)	0.083756	ppm	0.004805	5.74	68.462776	0.083756
V (292.401 nm)	0.094305	ppm	0.000315	0.33	1191.835941	0.094305
Zn (213.857 nm)	0.099240	ppm	0.000453	0.46	1162.011235	0.099240

Solution Name: 3100519-01

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100519-01	10/16/2023 12:15:05 PM	1:16	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	-0.000393 u	ppm	0.000282	71.85	1.590997	-0.000393 u
Al (237.312 nm)	0.014497	ppm	0.003491	24.08	20.951176	0.014497
As (193.696 nm)	-0.000384 u	ppm	0.001689	> 100.00	1.984896	-0.000384 u
Ba (493.408 nm)	0.017373	ppm	0.000056	0.32	13395.211415	0.017373
Be (313.042 nm)	-0.000031 u	ppm	0.000029	95.99	1862.196039	-0.000031 u
Ca (317.933 nm)	4.287269	ppm	0.016341	0.38	67838.870572	4.287269
Cd (214.439 nm)	0.000083 u	ppm	0.000167	> 100.00	1.154538	0.000083 u
Co (230.786 nm)	0.000562	ppm	0.000411	73.09	5.400266	0.000562
Cr (267.716 nm)	0.001521	ppm	0.000404	26.57	25.685573	0.001521
Cu (327.395 nm)	0.000049 u	ppm	0.000119	> 100.00	14.374721	0.000049 u
Fe (238.204 nm)	0.015272	ppm	0.000369	2.41	205.711735	0.015272
K (766.491 nm)	1.421563	ppm	0.002066	0.15	58763.928325	1.421563
Mg (279.800 nm)	1.129690	ppm	0.006240	0.55	779.704608	1.129690
Mn (257.610 nm)	0.007175	ppm	0.000016	0.23	849.985637	0.007175
Mo (202.032 nm)	0.001340	ppm	0.000246	18.36	5.086294	0.001340
Na (589.592 nm)	4.128866	ppm	0.003915	0.09	662467.858511	4.128866
Ni (231.604 nm)	0.001522	ppm	0.001738	> 100.00	2.925108	0.001522
Pb (220.353 nm)	0.002740	ppm	0.002083	76.02	6.541905	0.002740
Sb (217.582 nm)	0.004932 u	ppm	0.006798	> 100.00	4.143084	0.004932 u
Se (196.026 nm)	0.002598 u	ppm	0.003576	> 100.00	4.137885	0.002598 u
Tl (351.923 nm)	-0.003326 u	ppm	0.003783	> 100.00	1.057123	-0.003326 u
V (292.401 nm)	0.000308 u	ppm	0.000595	> 100.00	37.274461	0.000308 u
Zn (213.857 nm)	0.003015	ppm	0.000204	6.76	52.132493	0.003015

Solution Name: 3100519-02

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100519-02	10/16/2023 12:18:18 PM	1:17	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.002318	ppm	0.000478	20.64	24.696856	0.002318
Al (237.312 nm)	0.042327	ppm	0.001963	4.64	51.766053	0.042327
As (193.696 nm)	0.000933 u	ppm	0.004006	> 100.00	2.404666	0.000933 u
Ba (493.408 nm)	0.022466	ppm	0.000032	0.14	17268.538478	0.022466
Be (313.042 nm)	-0.000093 u	ppm	0.000026	28.18	1822.792462	-0.000093 u
Ca (317.933 nm)	26.098993	ppm	0.062105	0.24	391971.293349	26.098993
Cd (214.439 nm)	0.000287	ppm	0.000157	54.52	2.380681	0.000287
Co (230.786 nm)	0.001314	ppm	0.000720	54.78	8.179856	0.001314
Cr (267.716 nm)	0.000415	ppm	0.000151	36.46	11.253762	0.000415
Cu (327.395 nm)	0.000066 u	ppm	0.000274	> 100.00	14.636667	0.000066 u
Fe (238.204 nm)	0.077774	ppm	0.000540	0.69	976.408174	0.077774
K (766.491 nm)	2.767955	ppm	0.007317	0.26	114406.524401	2.767955
Mg (279.800 nm)	5.533645	ppm	0.007318	0.13	3803.353421	5.533645
Mn (257.610 nm)	5.250489	ppm	0.006541	0.12	612196.167145	5.250489
Mo (202.032 nm)	0.002281	ppm	0.000426	18.70	7.128385	0.002281
Na (589.592 nm)	11.859006	ppm	0.045593	0.38	1900975.336203	11.859006
Ni (231.604 nm)	0.000795	ppm	0.000715	89.91	2.129668	0.000795
Pb (220.353 nm)	0.000698 u	ppm	0.001377	> 100.00	4.733587	0.000698 u
Sb (217.582 nm)	-0.002321 u	ppm	0.004719	> 100.00	1.990976	-0.002321 u
Se (196.026 nm)	0.007956	ppm	0.004942	62.12	5.700222	0.007956
Tl (351.923 nm)	-0.000721 u	ppm	0.002842	> 100.00	3.073516	-0.000721 u
V (292.401 nm)	0.000751	ppm	0.000204	27.21	42.724665	0.000751
Zn (213.857 nm)	0.002848	ppm	0.000210	7.36	50.202595	0.002848

Solution Name: 3100519-03

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100519-03	10/16/2023 12:21:31 PM	1:18	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.000741 u	ppm	0.000729	98.42	11.256213	0.000741 u
Al (237.312 nm)	0.010742	ppm	0.003387	31.53	16.792922	0.010742
As (193.696 nm)	0.003101	ppm	0.005140	> 100.00	3.095501	0.003101
Ba (493.408 nm)	0.021967	ppm	0.000060	0.27	16889.337360	0.021967
Be (313.042 nm)	-0.000087 u	ppm	0.000031	36.20	1826.964713	-0.000087 u
Ca (317.933 nm)	20.681177	ppm	0.034301	0.17	311460.011373	20.681177
Cd (214.439 nm)	0.000530	ppm	0.000095	17.85	3.835428	0.000530
Co (230.786 nm)	0.000536	ppm	0.000280	52.29	5.304815	0.000536
Cr (267.716 nm)	0.000485	ppm	0.000135	27.89	12.167088	0.000485
Cu (327.395 nm)	0.000016 u	ppm	0.000529	> 100.00	13.859260	0.000016 u
Fe (238.204 nm)	0.013409	ppm	0.000335	2.50	182.728051	0.013409
K (766.491 nm)	1.813668	ppm	0.003927	0.22	74968.509046	1.813668
Mg (279.800 nm)	7.296860	ppm	0.013894	0.19	5013.933592	7.296860
Mn (257.610 nm)	0.116043	ppm	0.000260	0.22	13543.542613	0.116043
Mo (202.032 nm)	0.000937	ppm	0.000453	48.32	4.211664	0.000937
Na (589.592 nm)	9.515529	ppm	0.024460	0.26	1525508.206954	9.515529
Ni (231.604 nm)	-0.000835 u	ppm	0.000811	97.09	0.344413	-0.000835 u
Pb (220.353 nm)	0.000294 u	ppm	0.001608	> 100.00	4.375215	0.000294 u
Sb (217.582 nm)	0.001650 u	ppm	0.005860	> 100.00	3.169072	0.001650 u
Se (196.026 nm)	0.010245	ppm	0.007920	77.31	6.367681	0.010245
Tl (351.923 nm)	0.002356 u	ppm	0.002765	> 100.00	5.454880	0.002356 u
V (292.401 nm)	0.000179 u	ppm	0.000303	> 100.00	35.697657	0.000179 u
Zn (213.857 nm)	0.002868	ppm	0.000081	2.84	50.436907	0.002868

Solution Name: 3100519-04

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100519-04	10/16/2023 12:24:44 PM	1:19	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.000011 u	ppm	0.000707	> 100.00	5.032272	0.000011 u
Al (237.312 nm)	0.028609	ppm	0.001722	6.02	36.576868	0.028609
As (193.696 nm)	0.003967 u	ppm	0.006106	> 100.00	3.371399	0.003967 u
Ba (493.408 nm)	0.019888	ppm	0.000014	0.07	15308.381098	0.019888
Be (313.042 nm)	-0.000072 u	ppm	0.000015	20.52	1836.296042	-0.000072 u
Ca (317.933 nm)	25.190197	ppm	0.070191	0.28	378466.152396	25.190197
Cd (214.439 nm)	0.000242	ppm	0.000260	> 100.00	2.111373	0.000242
Co (230.786 nm)	0.000536	ppm	0.000281	52.44	5.305261	0.000536
Cr (267.716 nm)	0.000081 u	ppm	0.000316	> 100.00	6.891385	0.000081 u
Cu (327.395 nm)	-0.000207 u	ppm	0.000299	> 100.00	10.386135	-0.000207 u
Fe (238.204 nm)	0.032827	ppm	0.000218	0.66	422.175506	0.032827
K (766.491 nm)	1.772681	ppm	0.002491	0.14	73274.616588	1.772681
Mg (279.800 nm)	8.358497	ppm	0.016641	0.20	5742.827748	8.358497
Mn (257.610 nm)	0.006038	ppm	0.000028	0.46	717.379535	0.006038
Mo (202.032 nm)	0.001148	ppm	0.000587	51.12	4.670557	0.001148
Na (589.592 nm)	10.654849	ppm	0.029262	0.27	1708047.710590	10.654849
Ni (231.604 nm)	0.000349 u	ppm	0.000657	> 100.00	1.640670	0.000349 u
Pb (220.353 nm)	-0.000134 u	ppm	0.001588	> 100.00	3.996179	-0.000134 u
Sb (217.582 nm)	0.009838	ppm	0.005567	56.58	5.599001	0.009838
Se (196.026 nm)	0.002755	ppm	0.003269	> 100.00	4.183611	0.002755
Tl (351.923 nm)	0.000441 u	ppm	0.004547	> 100.00	3.972503	0.000441 u
V (292.401 nm)	0.000604	ppm	0.000208	34.45	40.910077	0.000604
Zn (213.857 nm)	0.005020	ppm	0.000137	2.73	75.263192	0.005020

Solution Name: 3100519-05

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100519-05	10/16/2023 12:27:57 PM	1:20	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.000158 u	ppm	0.000567	> 100.00	6.286066	0.000158 u
Al (237.312 nm)	0.007320	ppm	0.005105	69.74	13.004006	0.007320
As (193.696 nm)	0.001064 u	ppm	0.003481	> 100.00	2.446347	0.001064 u
Ba (493.408 nm)	0.028266	ppm	0.000038	0.13	21679.515000	0.028266
Be (313.042 nm)	-0.000051 u	ppm	0.000019	37.12	1849.150883	-0.000051 u
Ca (317.933 nm)	9.367878	ppm	0.041638	0.44	143339.102606	9.367878
Cd (214.439 nm)	0.000132	ppm	0.000093	70.37	1.448156	0.000132
Co (230.786 nm)	0.000082 u	ppm	0.000750	> 100.00	3.628480	0.000082 u
Cr (267.716 nm)	0.001225	ppm	0.000193	15.78	21.818167	0.001225
Cu (327.395 nm)	0.000182	ppm	0.000184	> 100.00	16.442811	0.000182
Fe (238.204 nm)	0.009408	ppm	0.000421	4.47	133.401131	0.009408
K (766.491 nm)	2.435289	ppm	0.001740	0.07	100658.355893	2.435289
Mg (279.800 nm)	3.678434	ppm	0.011635	0.32	2529.610508	3.678434
Mn (257.610 nm)	0.001131	ppm	0.000070	6.23	145.238289	0.001131
Mo (202.032 nm)	0.000754	ppm	0.000478	63.44	3.815927	0.000754
Na (589.592 nm)	12.014566	ppm	0.023730	0.20	1925898.849969	12.014566
Ni (231.604 nm)	-0.001456 u	ppm	0.000678	46.56	-0.335138	-0.001456 u
Pb (220.353 nm)	0.000995	ppm	0.000408	40.94	4.996737	0.000995
Sb (217.582 nm)	0.002992 u	ppm	0.009167	> 100.00	3.567474	0.002992 u
Se (196.026 nm)	0.005478 u	ppm	0.009041	> 100.00	4.977665	0.005478 u
Tl (351.923 nm)	-0.004520 u	ppm	0.004585	> 100.00	0.132851	-0.004520 u
V (292.401 nm)	0.000320 u	ppm	0.000329	> 100.00	37.429447	0.000320 u
Zn (213.857 nm)	0.004716	ppm	0.000197	4.18	71.751025	0.004716

Solution Name: SEQ-CCV1

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
SEQ-CCV1	10/16/2023 12:31:10 PM	S1:5	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.536203	ppm	0.001265	0.24	4574.714925	0.536203
Al (237.312 nm)	10.062928	ppm	0.009963	0.10	11147.378475	10.062928
As (193.696 nm)	5.240507	ppm	0.013354	0.25	1672.096838	5.240507
Ba (493.408 nm)	5.281670	ppm	0.026221	0.50	4016705.951284	5.281670
Be (313.042 nm)	2.126545	ppm	0.005374	0.25	1341129.121525	2.126545
Ca (317.933 nm)	50.367492	ppm	0.187316	0.37	752612.535135	50.367492
Cd (214.439 nm)	2.542196	ppm	0.008898	0.35	15233.930279	2.542196
Co (230.786 nm)	5.117213	ppm	0.013378	0.26	18896.103332	5.117213
Cr (267.716 nm)	5.072511	ppm	0.009659	0.19	66180.959335	5.072511
Cu (327.395 nm)	5.191162	ppm	0.053505	1.03	80740.885634	5.191162
Fe (238.204 nm)	10.698161	ppm	0.066815	0.62	131934.674816	10.698161
K (766.491 nm)	25.035353	ppm	0.094588	0.38	1034655.340847	25.035353
Mg (279.800 nm)	50.514609	ppm	0.060729	0.12	34686.190495	50.514609
Mn (257.610 nm)	5.168193	ppm	0.006492	0.13	602600.777548	5.168193
Mo (202.032 nm)	5.148323	ppm	0.010513	0.20	11171.621388	5.148323
Na (589.592 nm)	50.070687	ppm	0.109830	0.22	8023173.656178	50.070687
Ni (231.604 nm)	5.110573	ppm	0.006043	0.12	5596.816935	5.110573
Pb (220.353 nm)	5.084724	ppm	0.009561	0.19	4508.793777	5.084724
Sb (217.582 nm)	5.199816	ppm	0.013048	0.25	1545.630990	5.199816
Se (196.026 nm)	5.168701	ppm	0.003942	0.08	1510.446868	5.168701
Tl (351.923 nm)	5.055540	ppm	0.016654	0.33	3916.873412	5.055540
V (292.401 nm)	5.143725	ppm	0.005707	0.11	63213.509105	5.143725
Zn (213.857 nm)	5.203188	ppm	0.008535	0.16	60031.602077	5.203188

Solution Name: SEQ-CCB1

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
SEQ-CCB1	10/16/2023 12:34:23 PM	S1:4	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.003090	ppm	0.000807	26.13	31.278189	0.003090
Al (237.312 nm)	0.007011	ppm	0.000935	13.34	12.662189	0.007011
As (193.696 nm)	0.003436 u	ppm	0.004428	> 100.00	3.202098	0.003436 u
Ba (493.408 nm)	0.000893	ppm	0.000098	11.02	862.803335	0.000893
Be (313.042 nm)	0.000263	ppm	0.000035	13.47	2047.092300	0.000263
Ca (317.933 nm)	0.010662	ppm	0.002159	20.25	4286.490535	0.010662
Cd (214.439 nm)	0.000765	ppm	0.000192	25.05	5.245391	0.000765
Co (230.786 nm)	0.001019	ppm	0.000817	80.14	7.090345	0.001019
Cr (267.716 nm)	0.000298 u	ppm	0.000243	81.42	9.725217	0.000298 u
Cu (327.395 nm)	0.000495	ppm	0.000484	97.87	21.303723	0.000495
Fe (238.204 nm)	0.000952	ppm	0.000345	36.27	29.125148	0.000952
K (766.491 nm)	0.004916	ppm	0.000111	2.27	217.880757	0.004916
Mg (279.800 nm)	0.013875	ppm	0.001630	11.75	13.613312	0.013875
Mn (257.610 nm)	0.001099	ppm	0.000125	11.33	141.565912	0.001099
Mo (202.032 nm)	0.001572	ppm	0.000844	53.69	5.590207	0.001572
Na (589.592 nm)	0.012415	ppm	0.000478	3.85	2938.462248	0.012415
Ni (231.604 nm)	0.001016	ppm	0.000723	71.17	2.371420	0.001016
Pb (220.353 nm)	0.002287	ppm	0.000882	38.56	6.141082	0.002287
Sb (217.582 nm)	0.000782 u	ppm	0.004832	> 100.00	2.911540	0.000782 u
Se (196.026 nm)	0.000622 u	ppm	0.002970	> 100.00	3.561661	0.000622 u
Tl (351.923 nm)	-0.002391 u	ppm	0.005860	> 100.00	1.780422	-0.002391 u
V (292.401 nm)	0.000793	ppm	0.000284	35.76	43.237848	0.000793
Zn (213.857 nm)	0.001068	ppm	0.000126	11.78	29.671912	0.001068

Solution Name: 3100519-06

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100519-06	10/16/2023 12:37:36 PM	1:21	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.002932	ppm	0.000368	12.53	29.929518	0.002932
Al (237.312 nm)	0.040859	ppm	0.005335	13.06	50.140789	0.040859
As (193.696 nm)	-0.000400 u	ppm	0.002955	> 100.00	1.979730	-0.000400 u
Ba (493.408 nm)	0.021946	ppm	0.000041	0.19	16873.484773	0.021946
Be (313.042 nm)	-0.000014 u	ppm	0.000019	> 100.00	1872.360207	-0.000014 u
Ca (317.933 nm)	25.110374	ppm	0.091677	0.37	377279.949306	25.110374
Cd (214.439 nm)	0.000324 u	ppm	0.000299	92.38	2.602071	0.000324 u
Co (230.786 nm)	0.000954 u	ppm	0.001080	> 100.00	6.849973	0.000954 u
Cr (267.716 nm)	0.000701	ppm	0.000123	17.55	14.979905	0.000701
Cu (327.395 nm)	0.000411	ppm	0.000087	21.14	19.992434	0.000411
Fe (238.204 nm)	0.072197	ppm	0.000674	0.93	907.642829	0.072197
K (766.491 nm)	2.744690	ppm	0.009722	0.35	113445.024013	2.744690
Mg (279.800 nm)	5.348550	ppm	0.014343	0.27	3676.271211	5.348550
Mn (257.610 nm)	5.106316	ppm	0.013589	0.27	595386.282371	5.106316
Mo (202.032 nm)	0.002814	ppm	0.000906	32.20	8.284561	0.002814
Na (589.592 nm)	11.648094	ppm	0.019377	0.17	1867183.465049	11.648094
Ni (231.604 nm)	-0.000965 u	ppm	0.000998	> 100.00	0.202016	-0.000965 u
Pb (220.353 nm)	-0.000617 u	ppm	0.000939	> 100.00	3.568084	-0.000617 u
Sb (217.582 nm)	0.007531 u	ppm	0.008571	> 100.00	4.914432	0.007531 u
Se (196.026 nm)	0.009540	ppm	0.007339	76.93	6.162147	0.009540
Tl (351.923 nm)	0.000458 u	ppm	0.006821	> 100.00	3.985949	0.000458 u
V (292.401 nm)	0.000424 u	ppm	0.000468	> 100.00	38.705069	0.000424 u
Zn (213.857 nm)	0.003728	ppm	0.000257	6.89	60.361462	0.003728

Solution Name: 3100519-07

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100519-07	10/16/2023 12:40:50 PM	1:22	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.000005 u	ppm	0.000137	> 100.00	4.984837	0.000005 u
Al (237.312 nm)	0.005948	ppm	0.002607	43.83	11.484350	0.005948
As (193.696 nm)	-0.001077 u	ppm	0.002252	> 100.00	1.763954	-0.001077 u
Ba (493.408 nm)	0.000761	ppm	0.000016	2.08	762.598508	0.000761
Be (313.042 nm)	-0.000120 u	ppm	0.000025	20.71	1806.048615	-0.000120 u
Ca (317.933 nm)	0.108690	ppm	0.000986	0.91	5743.230363	0.108690
Cd (214.439 nm)	0.000070 u	ppm	0.000254	> 100.00	1.080470	0.000070 u
Co (230.786 nm)	0.000172 u	ppm	0.000627	> 100.00	3.960367	0.000172 u
Cr (267.716 nm)	0.000551	ppm	0.000097	17.55	13.032050	0.000551
Cu (327.395 nm)	0.022994	ppm	0.000340	1.48	371.180069	0.022994
Fe (238.204 nm)	0.017670	ppm	0.000155	0.87	235.281514	0.017670
K (766.491 nm)	0.157682	ppm	0.000495	0.31	6531.260606	0.157682
Mg (279.800 nm)	0.007489	ppm	0.003661	48.89	9.228299	0.007489
Mn (257.610 nm)	0.001977	ppm	0.000035	1.79	243.880584	0.001977
Mo (202.032 nm)	0.001214	ppm	0.000742	61.11	4.813023	0.001214
Na (589.592 nm)	0.085596	ppm	0.000428	0.50	14663.278781	0.085596
Ni (231.604 nm)	0.000403 u	ppm	0.001569	> 100.00	1.700015	0.000403 u
Pb (220.353 nm)	-0.000968 u	ppm	0.001770	> 100.00	3.257121	-0.000968 u
Sb (217.582 nm)	0.007770	ppm	0.002662	34.26	4.985181	0.007770
Se (196.026 nm)	0.001330 u	ppm	0.004997	> 100.00	3.768165	0.001330 u
Tl (351.923 nm)	-0.001867 u	ppm	0.002149	> 100.00	2.186298	-0.001867 u
V (292.401 nm)	0.000153 u	ppm	0.000405	> 100.00	35.377284	0.000153 u
Zn (213.857 nm)	0.017424	ppm	0.000096	0.55	218.332952	0.017424

Solution Name: 3100642-02

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100642-02	10/16/2023 12:44:03 PM	1:23	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	-0.001222 u	ppm	0.000705	57.70	-5.470989	-0.001222 u
Al (237.312 nm)	0.066375	ppm	0.003465	5.22	78.394548	0.066375
As (193.696 nm)	0.005468	ppm	0.003671	67.14	3.849852	0.005468
Ba (493.408 nm)	0.008366	ppm	0.000014	0.17	6545.774020	0.008366
Be (313.042 nm)	0.000034	ppm	0.000030	87.15	1902.947831	0.000034
Ca (317.933 nm)	49.721179	ppm	0.181058	0.36	743008.027195	49.721179
Cd (214.439 nm)	0.000691	ppm	0.000253	36.70	4.797546	0.000691
Co (230.786 nm)	0.003639	ppm	0.000341	9.38	16.761574	0.003639
Cr (267.716 nm)	0.018524	ppm	0.000257	1.39	247.503172	0.018524
Cu (327.395 nm)	0.007471	ppm	0.000233	3.12	129.784875	0.007471
Fe (238.204 nm)	0.636577	ppm	0.001612	0.25	7866.920210	0.636577
K (766.491 nm)	0.631189	ppm	0.001602	0.25	26100.004969	0.631189
Mg (279.800 nm)	18.801461	ppm	0.039951	0.21	12912.713296	18.801461
Mn (257.610 nm)	0.010117	ppm	0.000037	0.37	1193.063476	0.010117
Mo (202.032 nm)	0.015099	ppm	0.000978	6.47	34.936864	0.015099
Na (589.592 nm)	8.081404	ppm	0.023475	0.29	1295735.542266	8.081404
Ni (231.604 nm)	0.000771	ppm	0.000852	> 100.00	2.102502	0.000771
Pb (220.353 nm)	0.034632	ppm	0.002143	6.19	34.796258	0.034632
Sb (217.582 nm)	0.004722 u	ppm	0.005231	> 100.00	4.080801	0.004722 u
Se (196.026 nm)	0.003729	ppm	0.003945	> 100.00	4.467658	0.003729
Tl (351.923 nm)	0.000764 u	ppm	0.002583	> 100.00	4.222641	0.000764 u
V (292.401 nm)	0.184836	ppm	0.000432	0.23	2303.818720	0.184836
Zn (213.857 nm)	0.113621	ppm	0.000499	0.44	1327.883550	0.113621

Solution Name: 3100905-01

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100905-01	10/16/2023 12:47:17 PM	1:24	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	-0.000479 u	ppm	0.000395	82.34	0.855670	-0.000479 u
Al (237.312 nm)	0.093730	ppm	0.003741	3.99	108.683679	0.093730
As (193.696 nm)	0.001716 u	ppm	0.002377	> 100.00	2.654163	0.001716 u
Ba (493.408 nm)	0.186739	ppm	0.000468	0.25	142192.145948	0.186739
Be (313.042 nm)	-0.000077 u	ppm	0.000025	32.51	1832.992765	-0.000077 u
Ca (317.933 nm)	18.597022	ppm	0.039082	0.21	280488.498988	18.597022
Cd (214.439 nm)	0.001571	ppm	0.000369	23.49	10.074166	0.001571
Co (230.786 nm)	0.001095	ppm	0.000605	55.20	7.369978	0.001095
Cr (267.716 nm)	0.002274	ppm	0.000235	10.35	35.502105	0.002274
Cu (327.395 nm)	0.122685	ppm	0.000717	0.58	1921.464289	0.122685
Fe (238.204 nm)	0.522303	ppm	0.000526	0.10	6457.820166	0.522303
K (766.491 nm)	11.145371	ppm	0.031590	0.28	460621.508855	11.145371
Mg (279.800 nm)	2.675325	ppm	0.013543	0.51	1840.900187	2.675325
Mn (257.610 nm)	0.026486	ppm	0.000102	0.39	3101.524451	0.026486
Mo (202.032 nm)	0.001946	ppm	0.001011	51.96	6.402339	0.001946
Na (589.592 nm)	22.147769	ppm	0.060220	0.27	3549420.137833	22.147769
Ni (231.604 nm)	0.005979	ppm	0.002159	36.10	7.804690	0.005979
Pb (220.353 nm)	0.003687	ppm	0.001047	28.40	7.380960	0.003687
Sb (217.582 nm)	0.010071	ppm	0.004235	42.05	5.668116	0.010071
Se (196.026 nm)	-0.005751 u	ppm	0.004732	82.27	1.703398	-0.005751 u
Tl (351.923 nm)	-0.000953 u	ppm	0.004570	> 100.00	2.893339	-0.000953 u
V (292.401 nm)	0.001229	ppm	0.000144	11.69	48.589322	0.001229
Zn (213.857 nm)	0.246494	ppm	0.000643	0.26	2860.457962	0.246494

Solution Name: 3100926-01

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
3100926-01	10/16/2023 12:50:30 PM	1:25	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	-0.000253 u	ppm	0.000457	> 100.00	2.788777	-0.000253 u
Al (237.312 nm)	0.054947	ppm	0.002558	4.66	65.739922	0.054947
As (193.696 nm)	0.004821 u	ppm	0.003787	78.56	3.643588	0.004821 u
Ba (493.408 nm)	0.045298	ppm	0.000070	0.15	34631.151801	0.045298
Be (313.042 nm)	-0.000144 u	ppm	0.000016	10.91	1790.942101	-0.000144 u
Ca (317.933 nm)	32.144875	ppm	0.107491	0.33	481815.919867	32.144875
Cd (214.439 nm)	0.000185 u	ppm	0.000233	> 100.00	1.767731	0.000185 u
Co (230.786 nm)	0.001362	ppm	0.000437	32.05	8.355778	0.001362
Cr (267.716 nm)	0.000477	ppm	0.000174	36.36	12.067352	0.000477
Cu (327.395 nm)	0.001219	ppm	0.000252	20.68	32.569006	0.001219
Fe (238.204 nm)	0.072178	ppm	0.000251	0.35	907.400185	0.072178
K (766.491 nm)	2.188793	ppm	0.003388	0.15	90471.366933	2.188793
Mg (279.800 nm)	4.483414	ppm	0.013348	0.30	3082.289706	4.483414
Mn (257.610 nm)	0.002596	ppm	0.000016	0.60	316.096653	0.002596
Mo (202.032 nm)	0.001580	ppm	0.000740	46.83	5.607403	0.001580
Na (589.592 nm)	27.382411	ppm	0.069553	0.25	4388103.814247	27.382411
Ni (231.604 nm)	0.000184 u	ppm	0.000492	> 100.00	1.460709	0.000184 u
Pb (220.353 nm)	0.000671	ppm	0.000722	> 100.00	4.709301	0.000671
Sb (217.582 nm)	0.002662 u	ppm	0.006650	> 100.00	3.469498	0.002662 u
Se (196.026 nm)	0.010636	ppm	0.008533	80.23	6.481446	0.010636
Tl (351.923 nm)	0.005081 u	ppm	0.008350	> 100.00	7.564344	0.005081 u
V (292.401 nm)	0.002312	ppm	0.000235	10.16	61.895007	0.002312
Zn (213.857 nm)	0.009404	ppm	0.000175	1.86	125.827562	0.009404

Solution Name: B341059-MS1

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
B341059-MS1	10/16/2023 12:53:43 PM	1:26	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.525762	ppm	0.001383	0.26	4485.728826	0.525762
Al (237.312 nm)	7.669745	ppm	0.020869	0.27	8497.454249	7.669745
As (193.696 nm)	1.955030	ppm	0.011805	0.60	625.115763	1.955030
Ba (493.408 nm)	2.045324	ppm	0.005060	0.25	1555580.054239	2.045324
Be (313.042 nm)	1.973686	ppm	0.000882	0.04	1244862.025598	1.973686
Ca (317.933 nm)	40.472271	ppm	0.163802	0.40	605564.925033	40.472271
Cd (214.439 nm)	1.919146	ppm	0.005015	0.26	11500.510587	1.919146
Co (230.786 nm)	1.942721	ppm	0.001945	0.10	7175.861780	1.942721
Cr (267.716 nm)	1.919617	ppm	0.001461	0.08	25048.833684	1.919617
Cu (327.395 nm)	1.914301	ppm	0.004845	0.25	29782.724250	1.914301
Fe (238.204 nm)	8.031151	ppm	0.024745	0.31	99048.210882	8.031151
K (766.491 nm)	9.906762	ppm	0.060519	0.61	409433.296529	9.906762
Mg (279.800 nm)	26.282119	ppm	0.029153	0.11	18048.751540	26.282119
Mn (257.610 nm)	2.060719	ppm	0.001038	0.05	240283.695895	2.060719
Mo (202.032 nm)	1.877018	ppm	0.003249	0.17	4074.426551	1.877018
Na (589.592 nm)	18.633602	ppm	0.082475	0.44	2986387.448671	18.633602
Ni (231.604 nm)	1.901762	ppm	0.002888	0.15	2083.494645	1.901762
Pb (220.353 nm)	1.871643	ppm	0.003723	0.20	1662.247813	1.871643
Sb (217.582 nm)	1.945996	ppm	0.018208	0.94	580.118699	1.945996
Se (196.026 nm)	1.871215	ppm	0.011148	0.60	548.980724	1.871215
Tl (351.923 nm)	1.915238	ppm	0.007567	0.40	1486.122038	1.915238
V (292.401 nm)	1.943025	ppm	0.001130	0.06	23899.536860	1.943025
Zn (213.857 nm)	1.933873	ppm	0.001802	0.09	22322.896600	1.933873

Solution Name: B341059-MSD1

Solution Name	Date	Rack:Tube	Weight (g)	Volume (mL)	Dilution
B341059-MSD1	10/16/2023 12:56:56 PM	1:27	1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Adjusted Concentration
Ag (328.068 nm)	0.529126	ppm	0.000657	0.12	4514.400659	0.529126
Al (237.312 nm)	7.714164	ppm	0.026886	0.35	8546.639512	7.714164
As (193.696 nm)	1.968777	ppm	0.013109	0.67	629.496321	1.968777
Ba (493.408 nm)	2.061126	ppm	0.004303	0.21	1567597.008931	2.061126
Be (313.042 nm)	1.986791	ppm	0.004112	0.21	1253114.859032	1.986791
Ca (317.933 nm)	40.671024	ppm	0.167523	0.41	608518.488825	40.671024
Cd (214.439 nm)	1.928181	ppm	0.003372	0.17	11554.647024	1.928181
Co (230.786 nm)	1.951493	ppm	0.003437	0.18	7208.250147	1.951493
Cr (267.716 nm)	1.927751	ppm	0.002361	0.12	25154.956328	1.927751
Cu (327.395 nm)	1.925071	ppm	0.005045	0.26	29950.207266	1.925071
Fe (238.204 nm)	8.070216	ppm	0.014133	0.18	99529.911195	8.070216
K (766.491 nm)	9.917234	ppm	0.025468	0.26	409866.074984	9.917234
Mg (279.800 nm)	26.407912	ppm	0.022638	0.09	18135.117614	26.407912
Mn (257.610 nm)	2.071978	ppm	0.002246	0.11	241596.434053	2.071978
Mo (202.032 nm)	1.887230	ppm	0.004116	0.22	4096.582052	1.887230
Na (589.592 nm)	18.671677	ppm	0.109027	0.58	2992487.665522	18.671677
Ni (231.604 nm)	1.911737	ppm	0.004154	0.22	2094.417117	1.911737
Pb (220.353 nm)	1.881492	ppm	0.003832	0.20	1670.973900	1.881492
Sb (217.582 nm)	1.951415	ppm	0.011875	0.61	581.726811	1.951415
Se (196.026 nm)	1.880709	ppm	0.011296	0.60	551.749065	1.880709
Tl (351.923 nm)	1.924541	ppm	0.012195	0.63	1493.322818	1.924541
V (292.401 nm)	1.952675	ppm	0.001731	0.09	24018.063646	1.952675
Zn (213.857 nm)	1.944354	ppm	0.001900	0.10	22443.788689	1.944354

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

CN- Spectrophotometer Analysis

Title: Cyanide
Document#: P-017
Effective Date: 12/29/2022
Version:9

General Information

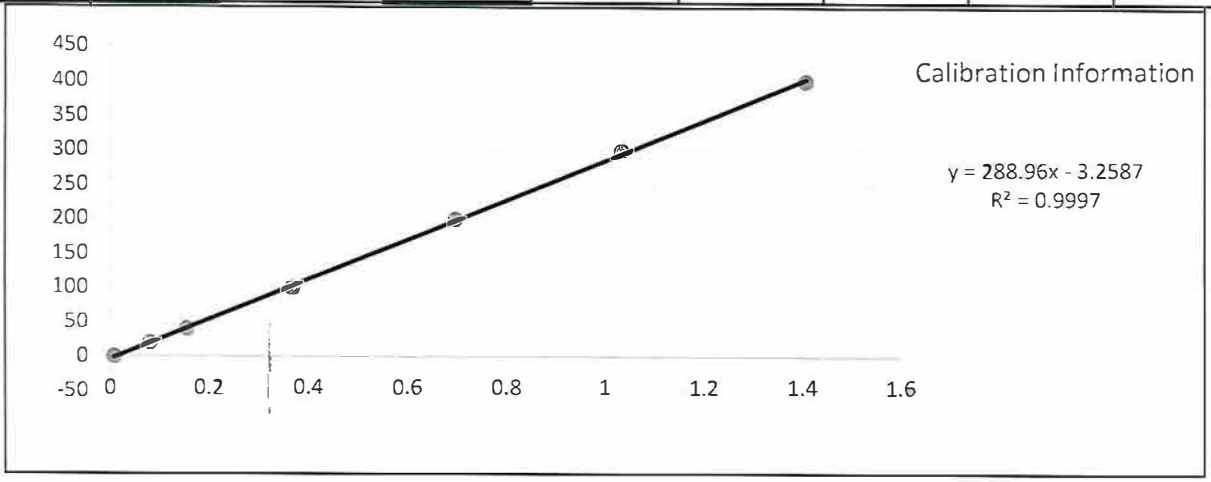
Batch:	B340190	Spec ID:	UV-1600PC	Correlation	0.999829
Matrix:	NPW	Analysis Date:	10/9/2023	Calibration Date:	9/27/2023
Initials:	JM	CCV Element ID:	2304734	ICV Element ID:	2304519

Batch QC and Sample Information

Sample Element ID #:		Absorbance from Spec	Conc. of Extract, ppb	Distillation		Colometric Analysis		Limit/ MDL	Total CN-, ppm
				Initial Vol.	Final Vol.	Initial Vol.	Final Vol.		
IBL	IBL	0	0	50	50	25	50	0.003	0.003
CCV1	CCV1	0.1505	43.48813	50	50	25	50	PASS	0.08698
BLK1	BLK1	0.0026	0.75129	500	500	25	50	0.003	0.003
BS1	BS1	0.1305	37.70898	500	500	25	50	0.003	0.07542
MS1	MS1	0.1116	32.24768	500	500	25	50	0.003	0.0645
MSD1	MSD1	0.0986	28.49123	500	500	25	50	0.003	0.05698
1	3100519-03	0.0195	5.634675	500	500	25	50	0.003	0.01127
2	3100253-01	0.0198	5.721362	500	500	25	50	0.003	0.01144
3	3100330-01	0.0218	6.299278	500	500	25	50	0.003	0.0126
4	3100519-01	0.019	5.490196	500	500	25	50	0.003	0.01098
5	3100519-02	0.19	54.90196	500	500	25	50	0.003	0.1098
6	3100519-04	0.0192	5.547988	500	500	25	50	0.003	0.0111
7	3100519-05	0.0188	5.432405	500	500	25	50	0.003	0.01086
8	3100519-06	0.0188	5.432405	500	500	25	50	0.003	0.01086
CCV2	CCV2	0.1513	43.7193	50	50	25	50	PASS	0.08744

Calibration Information

Cal0	True Conc. ppb (in flask)	True Conc. ppb (in cuvette)	Absorbance from Spec	Conc. of Extract, ppb	Colometric Analysis		Total CN-, ppm	Percent Recovery	Recovery P/F
					Initial Vol.	Final Vol.			
Cal0	0	0	0.0073	2.109391	25	50	1.054696	N/A	
Cal1	40	20	0.0801	23.14551	25	50	46.29102	115.7276	
Cal2	80	40	0.154	44.49948	25	50	88.99897	111.2487	
Cal3	200	100	0.3681	106.3653	25	50	212.7307	106.3653	
Cal4	400	200	0.6971	201.4324	25	50	402.8648	100.7162	
Cal5	600	300	1.0335	298.6378	25	50	597.2755	99.54592	
Cal6	800	400	1.4072	406.6213	25	50	813.2425	101.6553	
ICV	400	200	0.6779	195.8844	25	50	391.7688	97.94221	
LDR1	880	440		0	25	50	0	0	
LDR2	960	480		0	25	50	0	0	



SLOPE 288.957692

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROW'S ANALYTICAL SOLUTIONS TODAY"

CN- Spectrophotometer Analysis

Title: Cyanide
Document#: P-017
Effective Date: 12/29/2022
Version:9

General Information

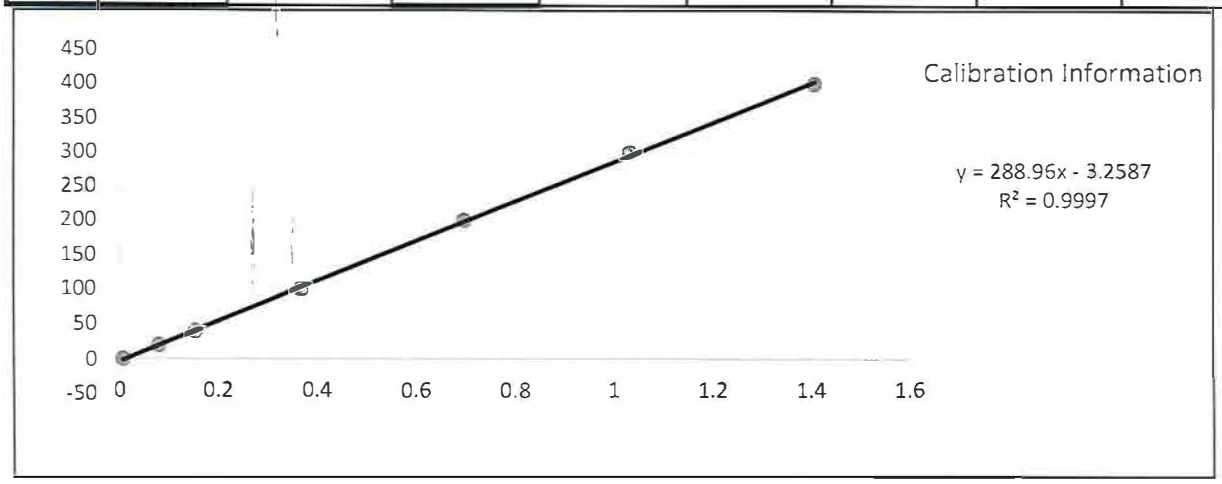
Batch:	B340190	Spec ID:	UV-1600PC	Correlation	0.999829
Matrix:	NPW	Analysis Date:	10/9/2023	Calibration Date:	9/27/2023
Initials:	JM	CCV Element ID:	2304734	ICV Element ID:	2304519

Batch QC and Sample Information

Sample Element ID #:		Absorbance from Spec	Conc. of Extract, ppb	Distillation		Colometric Analysis		Limit/ MDL	Total CN-, ppm
				Initial Vol.	Final Vol.	Initial Vol.	Final Vol.		
IBL	IBL	0	0	50	50	25	50	0.003	0.003
CCV1	CCV1	0.1505	43.48813	50	50	25	50	PASS	0.08698
BLK1	BLK1	0.0026	0.75129	500	500	25	50	0.003	0.003
BS1	BS1	0.1305	37.70898	500	500	25	50	0.003	0.07542
MS1	MS1	0.1116	32.24768	500	500	25	50	0.003	0.0645
MSD1	MSD1	0.0986	28.49123	500	500	25	50	0.003	0.05698
1	3100519-07	0.0195	5.634675	500	500	25	50	0.003	0.01127
2	3100914-01	0.202	58.36945	500	500	25	50	0.003	0.11674
3	3100914-02	0.0194	5.605779	500	500	25	50	0.003	0.01121
4			0	50	250	25	50	0.003	0.003
5			0	50	250	25	50	0.003	0.003
6			0	50	250	25	50	0.003	0.003
7			0	50	250	25	50	0.003	0.003
8			0	50	250	25	50	0.003	0.003
CCV2	CCV2	0.1513	43.7193	50	50	25	50	PASS	0.08744

Calibration Information

Cal0	True Conc. ppb (in flask)	True Conc. ppb (in cuvette)	Absorbance from Spec	Conc. of Extract, ppb	Colometric Analysis		Total CN-, ppm	Percent Recovery	Recovery P/F
					Initial Vol.	Final Vol.			
Cal0	0	0	0.0073	2.109391	25	50	1.054696	N/A	
Cal1	40	20	0.0801	23.14551	25	50	46.29102	115.7276	
Cal2	80	40	0.154	44.49948	25	50	88.99897	111.2487	
Cal3	200	100	0.3681	106.3653	25	50	212.7307	106.3653	
Cal4	400	200	0.6971	201.4324	25	50	402.8648	100.7162	
Cal5	600	300	1.0335	298.6378	25	50	597.2755	99.54592	
Cal6	800	400	1.4072	406.6213	25	50	813.2425	101.6553	
ICV	400	200	0.6779	195.8844	25	50	391.7688	97.94221	
LDR1	880	440		0	25	50	0	0	
LDR2	960	480		0	25	50	0	0	



SLOPE 288.957692

LONG ISLAND ANALYTICAL LABORATORIES INC.
"CONCENTRATING ANALYTICAL SOLUTIONS TODAY"

Hexavalent Chromium Prep Sheet

Title: Hexavalent Cr Prep Sheet
QC Documents: P-045
Effective Date: 02/23/2023
Version: 17

Date of Curve Calibration: 10/4/23 Batch# B340192 Spec ID: UV-1600PC

Date/Time of Analysis: 10/6 11:16 Matrix: NPW pH @ Acidification pH Meter #

Date/Time of Digestion: Analyst Initials: DW pH @ Colorization Test Strips Lot# 2202287

Lab ID #:	Sample Weight, g	Sample Volume, ml	Second D.F. Dilution	Absorbance Reading	Cr(VI), mg/L, "Initial Result"	pH @ Acidification	pH @ Colorization
3100519-01		25	1	0.0024	0		2
" -02		25	1	0.0052	0		2
-03		25	1	0.0016	0		1.5
-04		25	1	0.0026	0		2
-05		25	1	0.0034	0		2
-06		25	1	0.0048	0		2.5
" -07		25	1	0.0036	0		1.5
QC for All Matrices							
Blank		25	1	0.0011	0		1.5
Reference		25	1	0.4156	0.512		2
QC for Non-Potable Water Samples							
MS 1		25	1	0.4011	0.494		2
MSD 1		25	1	0.4195	0.517		2
QC for Solid Waste Samples							
DUP							
MS 1							
MS 2							
Post Spike							

QC Summary	Lot #	True Value	Actual Value	% Recovery	Acceptance Criteria		
Blank		< DL	0		< DL	P	
CCV1		0.5	0.512	102	90-110%	P	
CCV2		0.5	0.513	103	90-110%	P	
CCV3		0.5			90-110%		
Reference			0.512	102	90-110%	P	
MS 1			0.494	99	85-115%	P	
MSD (for NPW only)			0.517	103	RPD <20%	P	
MS 2 (for SW only)					85-115%		
DUP (for SW only)					RPD <20%		
Post Spike (for SW only)					85-115%		

Approved by: N. Puleio, QA Officer

LONG
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"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

Wet Chemistry

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"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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SAMPLE DATA

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NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

ANALYSIS DATA SHEET

MW-3A

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-01
Sampled:	10/04/23 10:48	Method:	Calculation
% Solids:	0.00	Dilution:	4

CAS NO.	Analyte	Concentration (mg/L)	Q
NA	Total Nitrogen	1.80	U
	Total Organic Nitrogen	2.00	U
NA	Ammonia as N	1.00	U
24959-67-9	Bromide	0.400	U
184-96-258	Sulfide	2.00	U
NA	Total Alkalinity	9.50	
NA	Total Dissolved Solids	37.0	
NA	Total Kjeldahl Nitrogen	1.00	U
16887-00-6	Chloride	8.68	D
16984-48-8	Fluoride	0.400	U
NA	Nitrate as N	0.40	U
NA	Nitrite as N	0.40	U
1426-54-42	Orthophosphate as P	0.400	U
148-08-798	Sulfate as SO4	5.56	D

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NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

ANALYSIS DATA SHEET

MW-6AR

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-02
Sampled:	10/04/23 08:30	Method:	Calculation
% Solids:	0.00	Dilution:	4

CAS NO.	Analyte	Concentration (mg/L)	Q
NA	Total Nitrogen	1.80	U
	Total Organic Nitrogen	2.00	U
NA	Ammonia as N	1.00	U
24959-67-9	Bromide	0.400	U
184-96-258	Sulfide	2.00	U
NA	Total Alkalinity	74.5	
NA	Total Dissolved Solids	126	
NA	Total Kjeldahl Nitrogen	1.10	
16887-00-6	Chloride	22.2	D
16984-48-8	Fluoride	0.400	U
NA	Nitrate as N	0.40	U
NA	Nitrite as N	0.40	U
1426-54-42	Orthophosphate as P	0.400	U
148-08-798	Sulfate as SO4	19.4	D

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"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03
Sampled:	10/04/23 10:48	Method:	Calculation
% Solids:	0.00	Dilution:	4

CAS NO.	Analyte	Concentration (mg/L)	Q
NA	Total Nitrogen	1.80	U
	Total Organic Nitrogen	2.00	U
NA	Ammonia as N	1.00	U
24959-67-9	Bromide	0.400	U
184-96-258	Sulfide	2.00	U
NA	Total Alkalinity	47.5	
NA	Total Dissolved Solids	120	
NA	Total Kjeldahl Nitrogen	1.00	U
16887-00-6	Chloride	19.3	D
16984-48-8	Fluoride	0.400	U
NA	Nitrate as N	0.54	D
NA	Nitrite as N	0.40	U
1426-54-42	Orthophosphate as P	0.400	U
148-08-798	Sulfate as SO4	28.3	D

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NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

ANALYSIS DATA SHEET

MW-7B

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-04
Sampled:	10/03/23 16:11	Method:	Calculation
% Solids:	0.00	Dilution:	4

CAS NO.	Analyte	Concentration (mg/L)	Q
NA	Total Nitrogen	1.80	U
	Total Organic Nitrogen	2.00	U
NA	Ammonia as N	1.00	U
24959-67-9	Bromide	0.400	U
184-96-258	Sulfide	2.00	U
NA	Total Alkalinity	67.5	
NA	Total Dissolved Solids	125	
NA	Total Kjeldahl Nitrogen	1.00	U
16887-00-6	Chloride	21.8	D
16984-48-8	Fluoride	0.400	U
NA	Nitrate as N	0.40	U
NA	Nitrite as N	0.40	U
1426-54-42	Orthophosphate as P	0.400	U
148-08-798	Sulfate as SO4	19.4	D

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LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

ANALYSIS DATA SHEET

MW-7C

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-05
Sampled:	10/03/23 14:17	Method:	Calculation
% Solids:	0.00	Dilution:	4

CAS NO.	Analyte	Concentration (mg/L)	Q
NA	Total Nitrogen	3.71	D
	Total Organic Nitrogen	2.00	U
NA	Ammonia as N	1.00	U
24959-67-9	Bromide	0.400	U
184-96-258	Sulfide	2.00	U
NA	Total Alkalinity	13.0	
NA	Total Dissolved Solids	91.4	
NA	Total Kjeldahl Nitrogen	1.10	
16887-00-6	Chloride	21.6	D
16984-48-8	Fluoride	0.400	U
NA	Nitrate as N	2.61	D
NA	Nitrite as N	0.40	U
1426-54-42	Orthophosphate as P	0.400	U
148-08-798	Sulfate as SO4	16.7	D

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LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

ANALYSIS DATA SHEET

Dup

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-06
Sampled:	10/04/23 00:01	Method:	Calculation
% Solids:	0.00	Dilution:	4

CAS NO.	Analyte	Concentration (mg/L)	Q
NA	Total Nitrogen	1.80	U
	Total Organic Nitrogen	2.00	U
NA	Ammonia as N	1.00	U
24959-67-9	Bromide	0.400	U
184-96-258	Sulfide	2.00	U
NA	Total Alkalinity	75.0	
NA	Total Dissolved Solids	110	
NA	Total Kjeldahl Nitrogen	1.00	U
16887-00-6	Chloride	22.4	D
16984-48-8	Fluoride	0.400	U
NA	Nitrate as N	0.40	U
NA	Nitrite as N	0.40	U
1426-54-42	Orthophosphate as P	0.400	U
148-08-798	Sulfate as SO4	19.5	D

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

ANALYSIS DATA SHEET

EQ

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	
Client:	Alpha Geoscience	Project:	Analysis
Matrix:	Non-Potable Water	Laboratory ID:	3100519-07
Sampled:	10/04/23 09:00	Method:	Calculation
% Solids:	0.00	Dilution:	4

CAS NO.	Analyte	Concentration (mg/L)	Q
NA	Total Nitrogen	1.80	U
	Total Organic Nitrogen	2.00	U
NA	Ammonia as N	1.00	U
24959-67-9	Bromide	0.400	U
184-96-258	Sulfide	2.00	U
NA	Total Alkalinity	5.00	U
NA	Total Dissolved Solids	10.0	U
NA	Total Kjeldahl Nitrogen	1.00	U
16887-00-6	Chloride	2.00	U
16984-48-8	Fluoride	0.400	U
NA	Nitrate as N	0.40	U
NA	Nitrite as N	0.40	U
1426-54-42	Orthophosphate as P	0.400	U
148-08-798	Sulfate as SO4	0.800	U

PREPARATION BENCH SHEET

Prepared: 10/05/2023 14:07 B340169 **Printed: 10/5/2023 2:10:44PM**

Matrix: Non-Potable Water

Long Island Analytical Laboratories, Inc.

Prepared using: Wet Chem - No Preparation

Sample ID	Sample ID and Source Sample	AMT DIGESTED mL g L	Final Vol (mL)	Due Date	Spike Amount uL 1 | 2	Comments	pH c
3100519-01	MW-3A	200	200	10/10/2023	Alpha Geoscience	1.9	
3100519-02	MW-6AR	200	200	10/10/2023	Alpha Geoscience	14.9	
3100519-03	MW-7A	200	200	10/10/2023	Alpha Geoscience	9.5	
3100519-04	MW-7B	200	200	10/10/2023	Alpha Geoscience	13.5	
3100519-05	MW-7C	200	200	10/10/2023	Alpha Geoscience	2.6	
3100519-06	Dup	200	200	10/10/2023	Alpha Geoscience	15.0	
3100519-07	EQ	200	200	10/10/2023	Alpha Geoscience	0.8	
B340169-BLK1	Blank	200	200		|	0.2	
B340169-DUP1	Duplicate [3100519-01]	200	200		|	2.0	
B340169-SRM1	Reference	200	200		100000 |	4.2	

Standard(s):
2304327 Alkalinity Reference 100000 u

Standard ID#	Description	Manufacture Lot#
2303064	Alkalinity Bromescol Green Methyl	A3137
2303975	0.02 N Sulfuric Acid	226607
2304271	pH Strips 1-14	6306004

VEL 10/05/23

K MP
10/6/23

PREPARATION BENCH SHEET

B340184

Long Island Analytical Laboratories, Inc.

Matrix: Non-Potable Water **Prepared using: Wet Chem - SM4500-Norg B** **rinted: 10/6/2023 9:12:40AM**

Lab Number	Prepared	Initial (mL)	Final (mL)	Spike ID Source ID	ul Spike	Comments			
3100327-01 *TKN Analysis*	10/06/2023 09:09	140	140	Mid Island Environmental			1.7	0.1	0.0
3100327-02 *TKN Analysis*	10/06/2023 09:09	140	140	Mid Island Environmental			1.2	0.1	0.0
3100327-03 *TKN Analysis*	10/06/2023 09:09	140	140	Mid Island Environmental			4.6	0.1	0.0
3100327-04 *TKN Analysis*	10/06/2023 09:09	140	140	Mid Island Environmental			0.7	0.1	0.0
3100327-05 *TKN Analysis*	10/06/2023 09:09	140	140	Mid Island Environmental			1.8	0.1	0.0
3100329-01 *TKN Analysis*	10/06/2023 09:09	140	140	Mid Island Environmental			1.0	0.1	0.0
3100329-02 *TKN Analysis*	10/06/2023 09:09	140	140	Mid Island Environmental			1.2	0.1	0.0
3100329-03 *TKN Analysis*	10/06/2023 09:09	140	140	Mid Island Environmental			1.0	0.1	0.0
3100463-04 *TKN Analysis*	10/06/2023 09:09	140	140	Mid Island Environmental			0.8	0.1	0.0
3100463-05 *TKN Analysis*	10/06/2023 09:09	140	140	Mid Island Environmental			1.7	0.1	0.0
3100507-02 *TKN Analysis*	10/06/2023 09:09	140	140	John W. Hallman LTD			3.1	0.1	0.0
3100509-01 *TKN Analysis*	10/06/2023 09:09	140	140	Clear Bay/Ron Paulsen			0.4	0.1	0.0
3100509-02 *TKN Analysis*	10/06/2023 09:09	140	140	Clear Bay/Ron Paulsen			0.4	0.1	0.0
3100519-01 *TKN Analysis*	10/06/2023 09:09	140	140	Alpha Geoscience			0.5	0.1	0.0

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

B340184

Long Island Analytical Laboratories, Inc.

Matrix: Non-Potable Water **Prepared using: Wet Chem - SM4500-Norg B** **rinted: 10/6/2023 9:12:40AM**

Lab Number	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments			
3100519-02 *TKN Analysis*	10/06/2023 09:09	140	140	Alpha Geoscience				0.6	0.1	0.0
3100519-03 *TKN Analysis*	10/06/2023 09:09	140	140	Alpha Geoscience				0.3	0.1	0.0
3100519-04 *TKN Analysis*	10/06/2023 09:09	140	140	Alpha Geoscience				0.5	0.1	0.0
3100519-05 *TKN Analysis*	10/06/2023 09:09	140	140	Alpha Geoscience				0.6	0.1	0.0
3100519-06 *TKN Analysis*	10/06/2023 09:09	140	140	Alpha Geoscience				0.5	0.1	0.0
3100519-07 *TKN Analysis*	10/06/2023 09:09	140	140	Alpha Geoscience				0.4	0.1	0.0
B340184-BLK1	10/06/2023 09:09	140	140					0.3	—	—
B340184-MS1	10/06/2023 09:09	140	140	2302667	3100519-03	700		2.9	0.1	0.0
B340184-MSD1	10/06/2023 09:09	140	140	2302667	3100519-03	700		3.2	0.1	0.0
B340184-SRM1	10/06/2023 09:09	140	140	2304361		70000		2.8	—	—

MLS 10/6/23

1 NP 10/6/23

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

B341110

Long Island Analytical Laboratories, Inc.

Matrix: Non-Potable Water **Prepared using: Wet Chem - SM4500-NH3 B-97,-11** **inted: 10/11/2023 9:10:15AM**

Lab Number	Prepared	Initial (mL)	Final (ml)	Spike ID	Source ID	ul Spike	Comments			
3100327-01 *Ammonia (as N) Analysis*	10/11/2023 09:08	~~140~~ 110	140	Mid Island Environmental				0.7	0.1	0.0
3100327-02 *Ammonia (as N) Analysis*	10/11/2023 09:08	~~140~~ 100	140	Mid Island Environmental				0.3	0.1	0.0
3100327-03 *Ammonia (as N) Analysis*	10/11/2023 09:08	~~140~~ 100	140	Mid Island Environmental				1.1	0.1	0.0
3100327-04 *Ammonia (as N) Analysis*	10/11/2023 09:08	~~140~~ 100	140	Mid Island Environmental				0.4	0.1	0.0
3100327-05 *Ammonia (as N) Analysis*	10/11/2023 09:08	~~140~~ LD	140	Mid Island Environmental				0.6	0.1	0.0
3100329-01 *Ammonia (as N) Analysis*	10/11/2023 09:08	~~140~~ 100	140	Mid Island Environmental				0.3	0.1	0.0
3100329-02 *Ammonia (as N) Analysis*	10/11/2023 09:08	~~140~~ 100	140	Mid Island Environmental				0.1	0.1	0.0
3100329-03 *Ammonia (as N) Analysis*	10/11/2023 09:08	~~140~~ 100	140	Mid Island Environmental				0.1	0.1 NH3	0.0
3100463-04 *Ammonia (as N) Analysis*	10/11/2023 09:08	~~140~~ 84	140	Mid Island Environmental				0.3	0.1	0.0
3100463-05 *Ammonia (as N) Analysis*	10/11/2023 09:08	~~140~~ 100	140	Mid Island Environmental				0.5	0.1	0.0
3100507-02 *Ammonia (as N) Analysis*	10/11/2023 09:08	140	140	John W. Hallman LTD				2.1	0.1	0.0
3100509-01 *Ammonia (as N) Analysis*	10/11/2023 09:08	~~140~~ 100	140	Clear Bay/Ron Paulsen				0.3	0.1	0.0
3100509-02 *Ammonia (as N) Analysis*	10/11/2023 09:08	~~140~~ 70	140	Clear Bay/Ron Paulsen				0.2	0.1	0.0
3100519-01 *Ammonia (as N) Analysis*	10/11/2023 09:08	140	140	Alpha Geoscience	R	NP	10/16/23	0.1	0.1	0.0

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

B341110

Long Island Analytical Laboratories, Inc.

Matrix: Non-Potable Water **Prepared using: Wet Chem - SM4500-NH3 B-97,-11** **inted; 10/11/2023 9:10:15AM**

Lab Number	Prepared	Initial (mL)	Final (ml)	Spike ID	Source ID	ul Spike	Comments			
3100519-02 *Ammonia (as N) Analysis*	10/11/2023 09:08	140	140	Alpha Geoscience				0.3	0.1	0.0
3100519-03 *Ammonia (as N) Analysis*	10/11/2023 09:08	140	140	Alpha Geoscience				0.2	0.1	0.0
3100519-04 *Ammonia (as N) Analysis*	10/11/2023 09:08	140	140	Alpha Geoscience				0.1	0.1	0.0
3100519-05 *Ammonia (as N) Analysis*	10/11/2023 09:08	140	140	Alpha Geoscience				0.1	0.1	0.0
3100519-06 *Ammonia (as N) Analysis*	10/11/2023 09:08	140	140	Alpha Geoscience				0.2	0.1	0.0
3100519-07 *Ammonia (as N) Analysis*	10/11/2023 09:08	140	140	Alpha Geoscience				0.1	0.1	0.0
B341110-BLK1	10/11/2023 09:08	140	140					0.1	—	—
B341110-MS1	10/11/2023 09:08	140	140	2302667	3100519-03	700		2.6	0.1	0.0
B341110-MSD1	10/11/2023 09:08	140	140	2302667	3100519-03	700		2.9	0.1	0.0
B341110-SRM1	10/11/2023 09:08	140	140	2303959		70000		4.5	—	—

MLS
10/11/23

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

Total Dissolved Solids (TDS) by SM2540C

Analyst: DW Oven ID: 1 Batch ID: B341170 Balance ID: 12

	Date/Time In@105° C	Temp In	Date/Time OUT@105° C	Temp Out	Date/Time IN@180°C	Temp In	Date/Time OUT@180°C	Temp Out	2-Date/Time IN@180°C	Temp In	2-Date/Time Out@180°C	Temp out
	10/12/24 14:15	105	10/12/24 16:10	105	10/13/24 9:25	180	10/13/24 10:55	180	10/13/24 11:50	180	10/13/24 13:10	180
A	B	C	D	E	F	G	H	I	J	K	L	M
Sample #	Client ID	Vol. (mL)	ID	Crucible Wt (g) #1	Crucible Wt (g) #2	Dried Wt (g)#1	Dried Wt (g)#2	Dried Wt (g)#3	Net Wt (g)	TDS (mg/L)	Residue Check <200mg	RPD <4%
B341170-BLK1	Blank	100.0000	AR	73.4088	73.4085	73.4080	73.4083		-0.0002	-2	<200mg	0.000408674
B341170-BLK2	Blank	100.0000	37	92.0491	92.0490	92.0491	92.0489		-0.0001	-1	<200mg	0.000217276
B341170-SRM1	Reference	50.0000	TK	78.9018	78.9020	78.9238	78.9240		0.0220	440	<200mg	0.000253409
B341170-SRM2	Reference	50.0000	P7	80.7551	80.7550	80.7788	80.7790		0.0240	480	<200mg	0.000247589
3100519-01	MW-3A	100.0000	TR	85.0598	85.0596	85.0630	85.0633		0.0037	37	<200mg	0.000352679
3100519-02	MW-6AR	100.0000	P1	69.7654	69.7655	69.7779	69.7781		0.0126	126	<200mg	0.000286623
3100519-03	MW-7A	100.0000	YA	85.5802	85.5804	85.5921	85.5924		0.0120	120	<200mg	0.000350499
B341170-DUP1	3100519-03	100.0000	30	76.8889	76.8887	76.9012	76.9014		0.0127	127	<200mg	0.000260074
3100519-04	MW-7B	100.0000	TiK	85.4921	85.4919	85.5041	85.5044		0.0125	125	<200mg	0.00035086
3100519-05	MW-7C	70.0000	19	70.1726	70.1724	70.1785	70.1788		0.0064	91.42857143	<200mg	0.00042748
3100519-06	Dup	100.0000	LR	89.9712	89.9711	89.9820	89.9821		0.0110	110	<200mg	0.000111133
B341170-DUP2	3100519-06	100.0000	R8	68.8168	68.8168	68.8277	68.8279		0.0111	111	<200mg	0.00029058
3100519-07	EQ	100.0000	FAL	91.0433	91.0434	91.0438	91.0440		0.0006	6	<200mg	0.000219674
3100544-01	Blue Ridge Well #	100.0000	Dx	79.7864	79.7862	79.8103	79.8105		0.0243	243	<200mg	0.000250594
3100544-02	Blue Ridge Well #	100.0000	TB	80.8060	80.8054	80.8244	80.8246		0.0192	192	<200mg	0.00024745
3100544-03	Blue Ridge Well #	100.0000	25	67.1204	67.1205	67.1369	67.1371		0.0166	166	<200mg	0.000297898
3100544-04	Mill Ponds Well #	100.0000	17	77.8624	77.8622	77.8733	77.8735		0.0113	113	<200mg	0.000256827
3100544-05	Mill Ponds Well #2	100.0000	108	77.1403	77.1401	77.1516	77.1519		0.0118	118	<200mg	0.000388844
3100544-06	Mill Ponds Well #3	100.0000	RK	94.6360	94.6358	94.6477	94.6480		0.0122	122	<200mg	0.000316964
3100554-01	505M Well #1	100.0000	AK	71.8887	71.8886	71.9048	71.9050		0.0164	164	<200mg	0.000278145
3100554-02	506M Well #2	100.0000	St	85.4450	85.4448	85.4677	85.4679		0.0231	231	<200mg	0.000234006
3100554-03	507M Well #3	100.0000	26	86.8953	86.8951	86.9206	86.9208		0.0257	257	<200mg	0.000230095
3100623-01	Discharge Test Po	100.0000	To	65.8162	65.8160	65.8670	65.8672		0.0512	512	<200mg	0.000303642
3100906-03	NYMRC Bay Drair	100.0000	33	94.1766	94.1764	94.1851	94.1853		0.0089	89	<200mg	0.000212348
3100906-05	Snow Monkeys	100.0000	10	77.4259	77.4258	77.4361	77.4363		0.0105	105	<200mg	0.000258277
3100906-06	Penguin Encounte	100.0000	GS	88.7870	88.7818	88.7932	88.7935		0.0117	117	<200mg	0.000337863

Analyst Signature: Date:

Read and Understood By: Date:

PREPARATION BENCH SHEET

Printed: 10/16/2023 11:36:52AM

B342027 | Surrogate Solution

Analysis
Sulfide (as S)

Long Island Analytical Laboratories, Inc.

Prepared using: No Preparation

Spiking Solution
2304769 Sulfide Reference
2304772 Sulfide 20 PPM Spike Solution

Matrix: Non-Potable Water

Lab Number	Sample ID and Source Sample	Due Date	Extract by	Prepared	Initial (mL)	Final (mL)	ul Spike	~~Surrogate~~	Extraction Comments
B342027-BLK1	Blank			10/16/2023 11:32	0.2	200		4.85	
B342027-MS1	Matrix Spike [3100519-03]			10/16/2023 11:32	0.2	200	20000	4.05	
B342027-MSD1	Matrix Spike Dup [3100519-03]			10/16/2023 11:32	0.2	200	20000	3.95	
B342027-SRM1	Reference			10/16/2023 11:32	0.2	200	100000	~~4.85~~	
3100330-01	Sanitary Pump Station	10/09/202	10/10/202	10/16/2023 11:32	0.2	200		4.95	4 Day TAT
3100462-01	Pump Station Carillon Nursing Home	10/10/202	10/11/202	10/16/2023 11:32	0.2	200		4.9	
3100519-01	MW-3A	10/10/202	10/11/202	10/16/2023 11:32	0.2	200		4.75	
3100519-02	MW-6AR	10/10/202	10/11/202	10/16/2023 11:32	0.2	200		5.0	
3100519-03	MW-7A	10/10/202	10/11/202	10/16/2023 11:32	0.2	200		4.95	
3100519-04	MW-7B	10/10/202	10/10/202	10/16/2023 11:32	0.2	200		4.85	
3100519-05	MW-7C	10/10/202	10/10/202	10/16/2023 11:32	0.2	200		4.7	
3100519-06	Dup	10/10/202	10/11/202	10/16/2023 11:32	0.2	200		4.8	
3100519-07	EQ	10/10/202	10/11/202	10/16/2023 11:32	0.2	200		4.9	
3100926-01	Sampling Manway	10/13/202	10/16/202	10/16/2023 11:32	0.2	200		4.8	

Start Date/Time _____

StopDate/Time _____

Standard ID#	Description	Manufacture Lot#
2301272	O&G HCl 1:1	DI
2304477	Sodium Thiosulfate 0.025N	2308L02
2304517	Iodine Solution 0.025N	1301973
2304604	Starch Indicator	3227822

10/16

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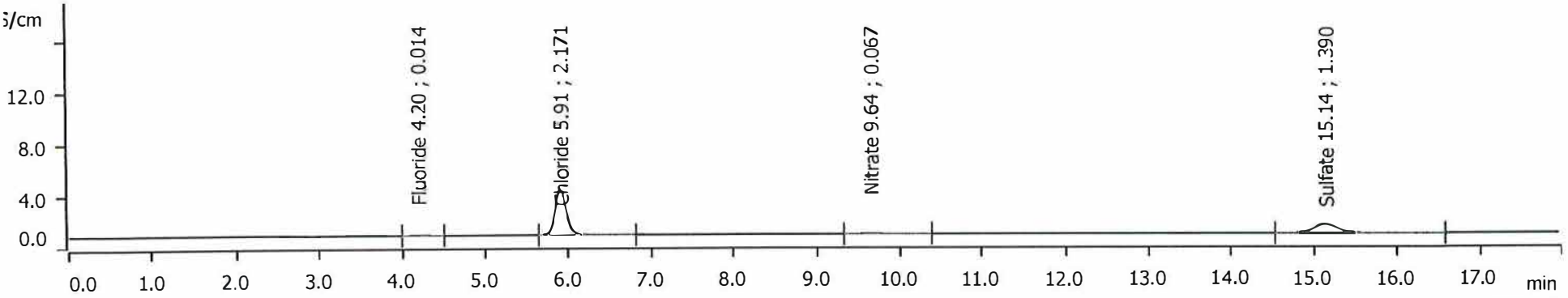

omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Fluoride	4.20	0.002	0.014		0.014	0.055		
Chloride	5.91	0.546	2.171		2.171	8.683		
Nitrate	9.64	0.007	0.067		0.067	0.269		
Sulfate	15.14	0.214	1.390		1.390	5.558		

I00519-02 3:14:38 PM UTC-5 2024-01-12

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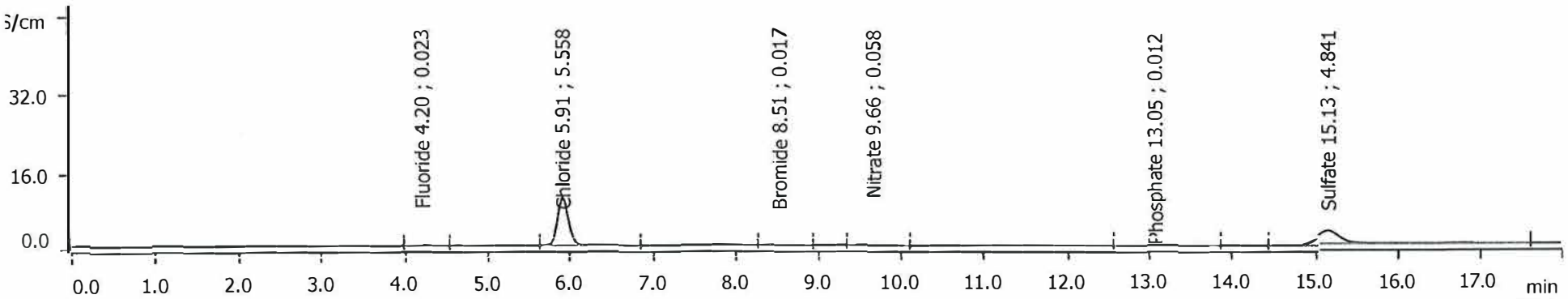

omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Fluoride	4.20	0.005	0.023		0.023	0.093		
Chloride	5.91	1.522	5.558		5.558	22.231		
Bromide	8.51	0.001	0.017		0.017	0.068		
Nitrate	9.66	0.001	0.058		0.058	0.232		
Phosphate	13.05	0.001	0.012		0.012	0.050		
Sulfate	15.13	0.852	4.841		4.841	19.362		

100519-03 3:14:36 PM UTC-5 2024-01-12

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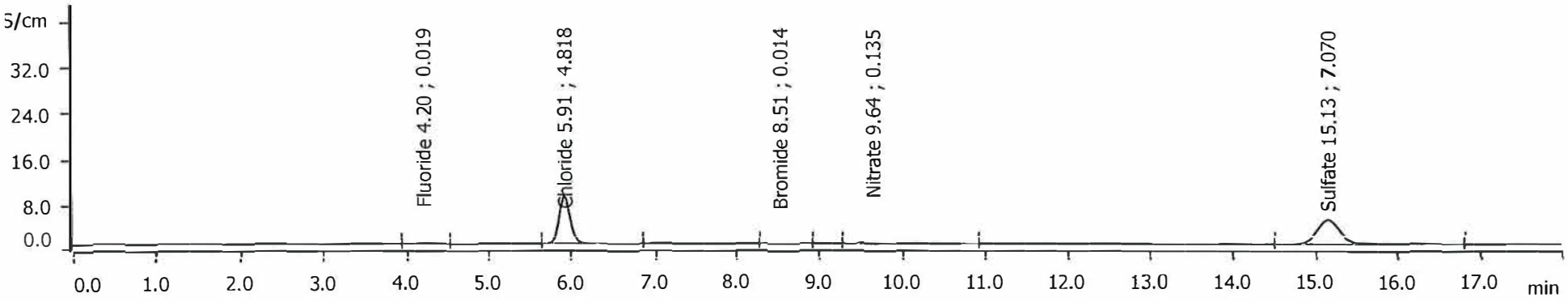

omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Fluoride	4.20	0.003	0.019		0.019	0.075		
Chloride	5.91	1.298	4.818		4.818	19.271		
Bromide	8.51	0.001	0.014		0.014	0.055		
Nitrate	9.64	0.048	0.135		0.135	0.538		
Sulfate	15.13	1.331	7.070		7.070	28.281		

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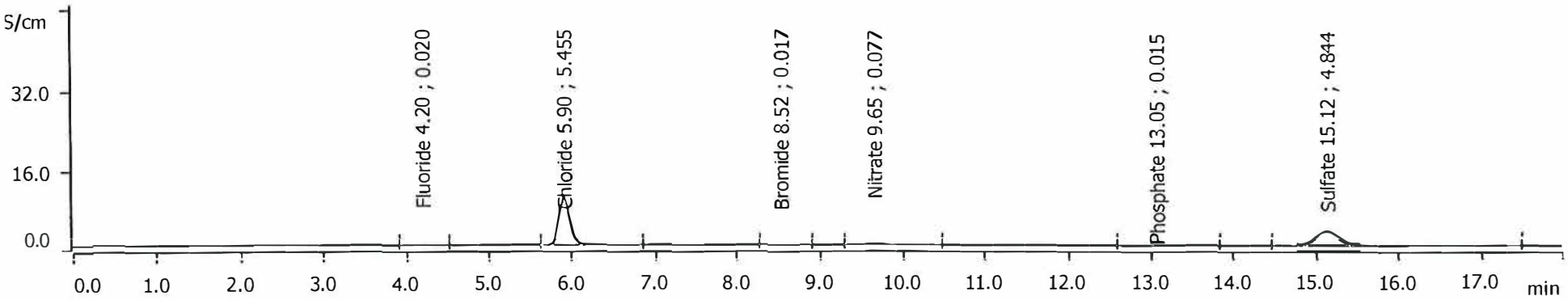
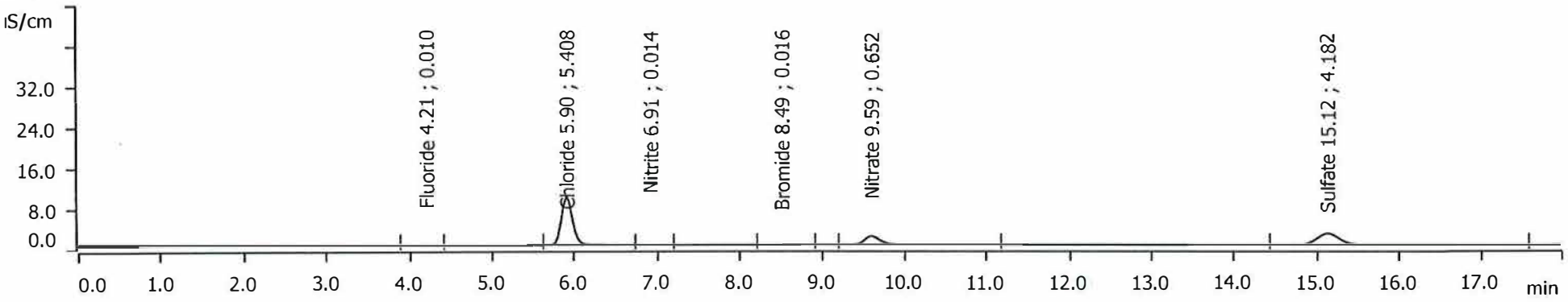


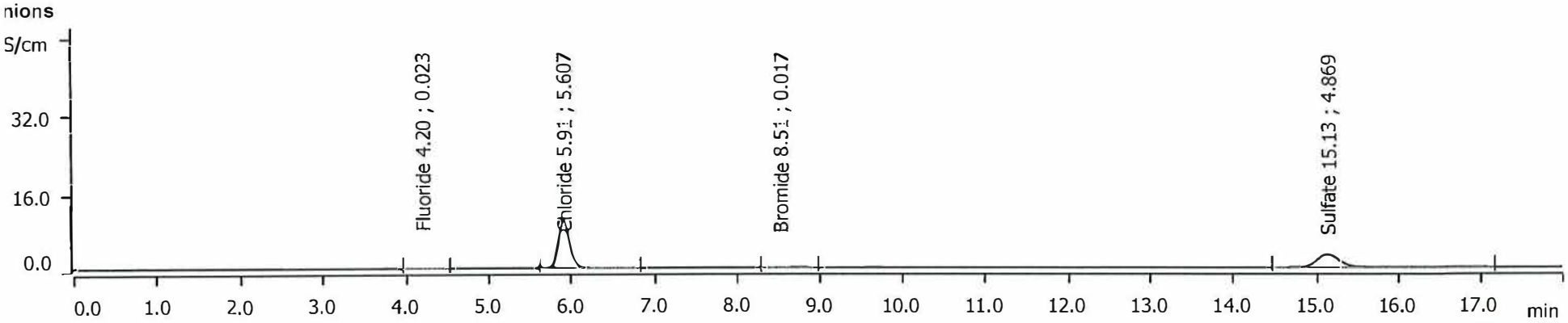
omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Fluoride	4.20	0.004	0.020		0.020	0.082		
Chloride	5.90	1.491	5.455		5.455	21.818		
Bromide	8.52	0.001	0.017		0.017	0.066		
Nitrate	9.65	0.013	0.077		0.077	0.309		
Phosphate	13.05	0.001	0.015		0.015	0.059		
Sulfate	15.12	0.852	4.844		4.844	19.378		

nions



Component name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Fluoride	4.21	0.000	0.010		0.010	0.040		
Chloride	5.90	1.476	5.408		5.408	21.632		
Nitrite	6.91	0.001	0.014		0.014	0.057		
Bromide	8.49	0.001	0.016		0.016	0.062		
Nitrate	9.59	0.375	0.652		0.652	2.607		
Sulfate	15.12	0.720	4.182		4.182	16.730		

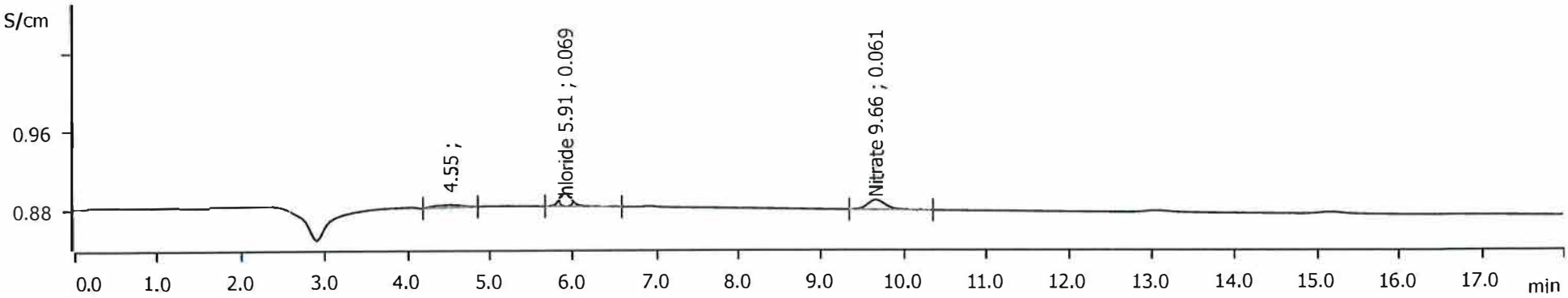
100519-06 3:14:31 PM UTC-5 2024-01-12



omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Fluoride	4.20	0.005	0.023		0.023	0.093		
Chloride	5.91	1.537	5.607		5.607	22.427		
Bromide	8.51	0.001	0.017		0.017	0.068		
Sulfate	15.13	0.857	4.869		4.869	19.475		

100519-07 3:14:25 PM UTC-5 2024-01-12

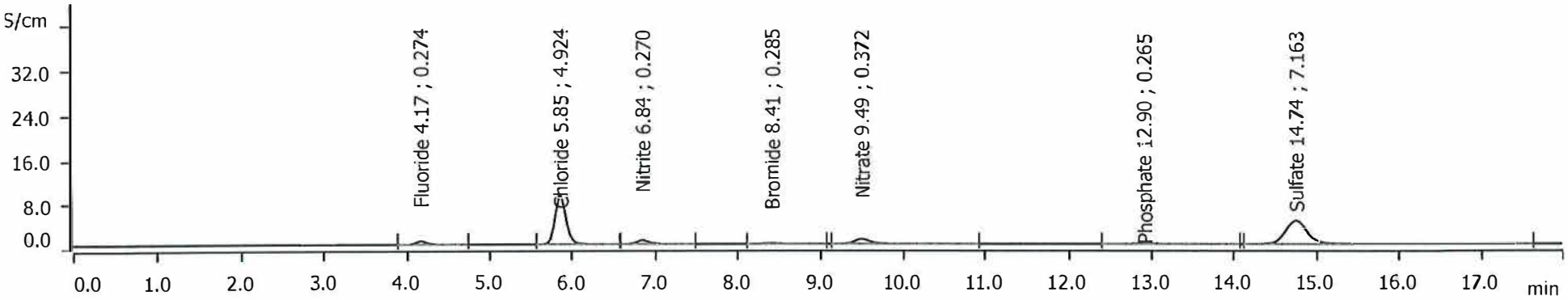
nions



omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Chloride	5.91	0.002	0.069		0.069	0.278		
Nitrate	9.66	0.002	0.061		0.061	0.242		

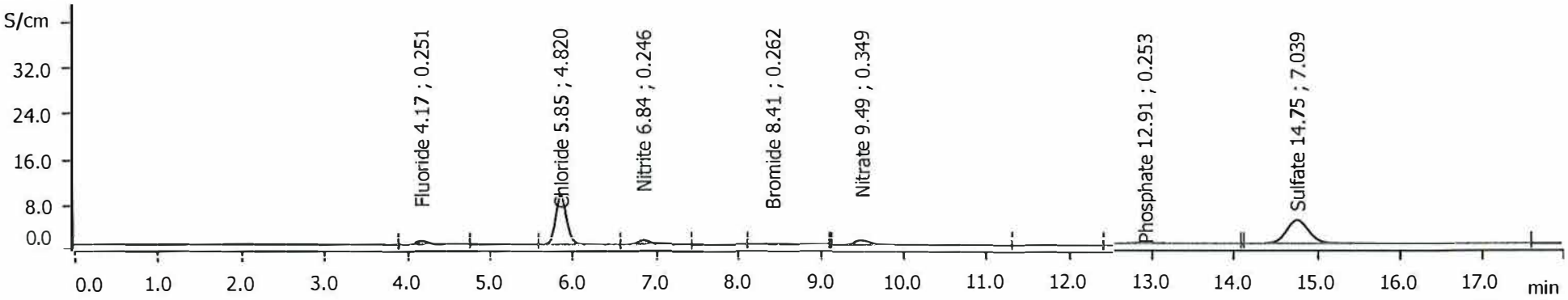
340176-MS1 3:14:23 PM UTC-5 2024-01-12

nions



omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Fluoride	4.17	0.097	0.274		0.274	1.095		
Chloride	5.85	1.330	4.924		4.924	19.695		
Nitrite	6.84	0.122	0.270		0.270	1.082		
Bromide	8.41	0.022	0.285		0.285	1.141		
Nitrate	9.49	0.197	0.372		0.372	1.488		
Phosphate	12.90	0.037	0.265		0.265	1.062		
Sulfate	14.74	1.352	7.163		7.163	28.653		

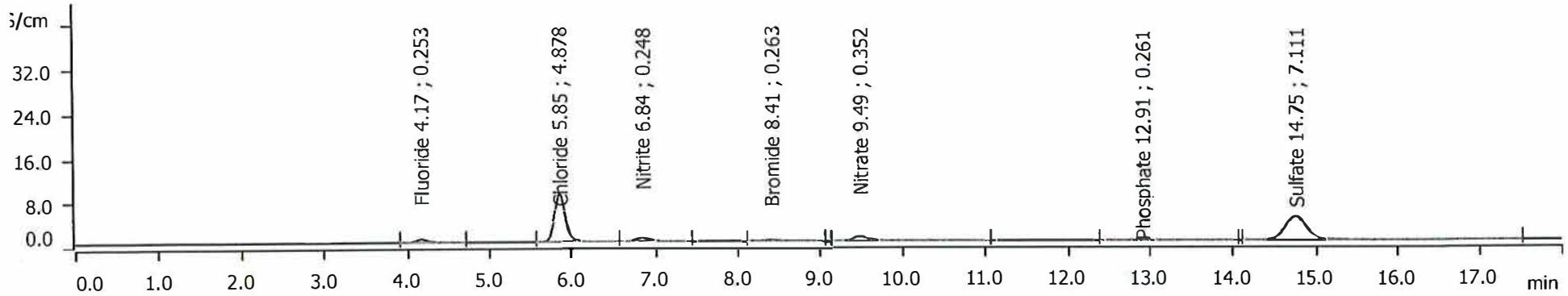
nions



omponent name	Retention time min	Area (µS/cm) x min	Concentration ppm	Standard concentration	Concentration_On-Column ppm	Final Concentration ppm	Check Std Recovery %	Std Recovery %
Fluoride	4.17	0.088	0.251		0.251	1.003		
Chloride	5.85	1.299	4.820		4.820	19.278		
Nitrite	6.84	0.110	0.246		0.246	0.985		
Bromide	8.41	0.020	0.262		0.262	1.048		
Nitrate	9.49	0.182	0.349		0.349	1.394		
Phosphate	12.91	0.035	0.253		0.253	1.014		
Sulfate	14.75	1.324	7.039		7.039	28.155		

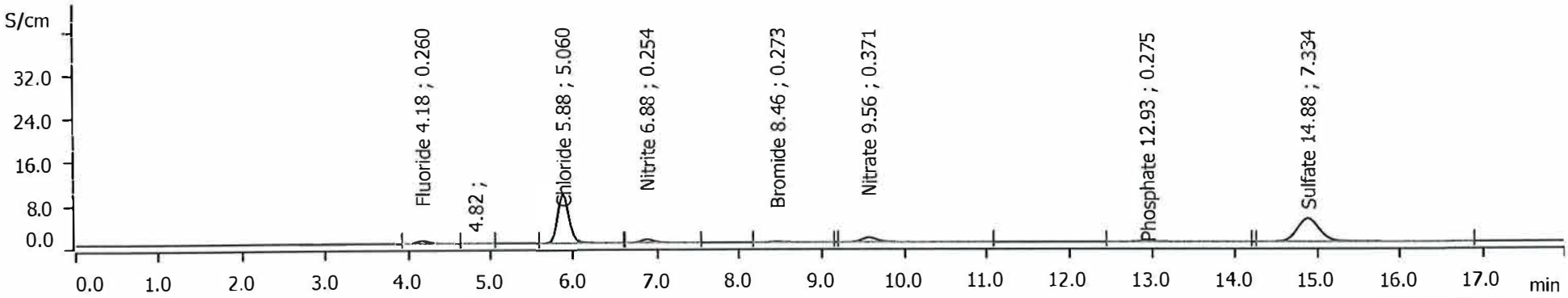
340176-MS2 3:14:18 PM UTC-5 2024-01-12

ıions



omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Fluoride	4.17	0.089	0.253		0.253	1.010		
Chloride	5.85	1.316	4.878		4.878	19.513		
Nitrite	6.84	0.111	0.248		0.248	0.994		
Bromide	8.41	0.020	0.263		0.263	1.052		
Nitrate	9.49	0.184	0.352		0.352	1.407		
Phosphate	12.91	0.036	0.261		0.261	1.042		
Sulfate	14.75	1.340	7.111		7.111	28.442		

nions



omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Fluoride	4.18	0.092	0.260		0.260	1.041		
Chloride	5.88	1.371	5.060		5.060	20.240		
Nitrite	6.88	0.113	0.254		0.254	1.014		
Bromide	8.46	0.021	0.273		0.273	1.092		
Nitrate	9.56	0.196	0.371		0.371	1.483		
Phosphate	12.93	0.038	0.275		0.275	1.101		
Sulfate	14.88	1.391	7.334		7.334	29.335		

340176-BLK1

3:14:11 PM UTC-5 2024-01-12

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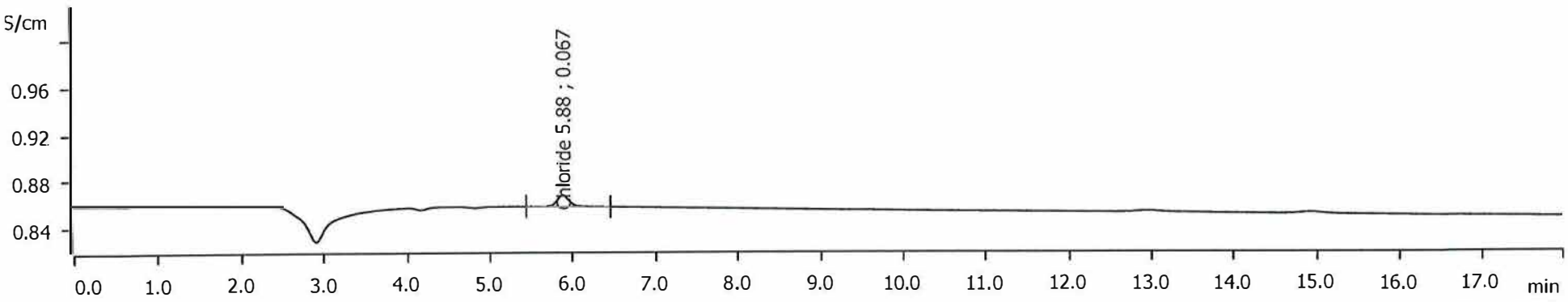

omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Chloride	5.88	0.002	0.067		0.067	0.067		

340176-SRM1 3:14:08 PM UTC-5 2024-01-12

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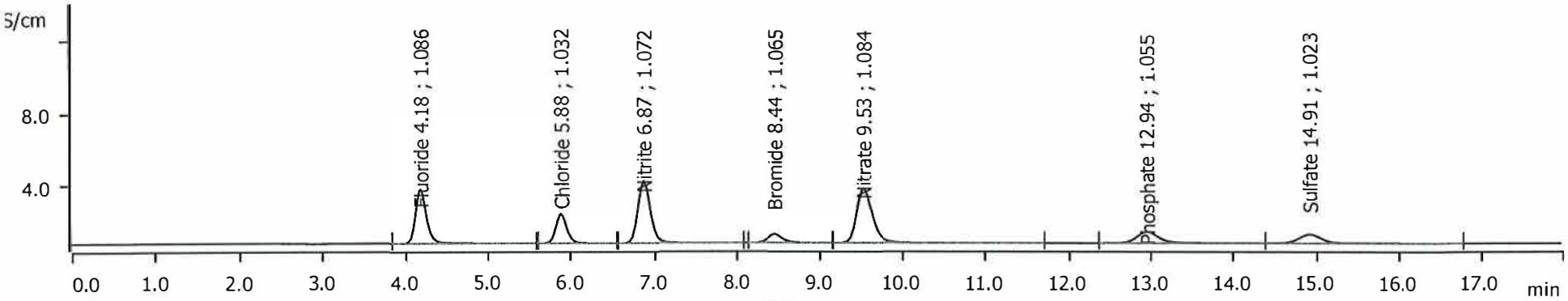
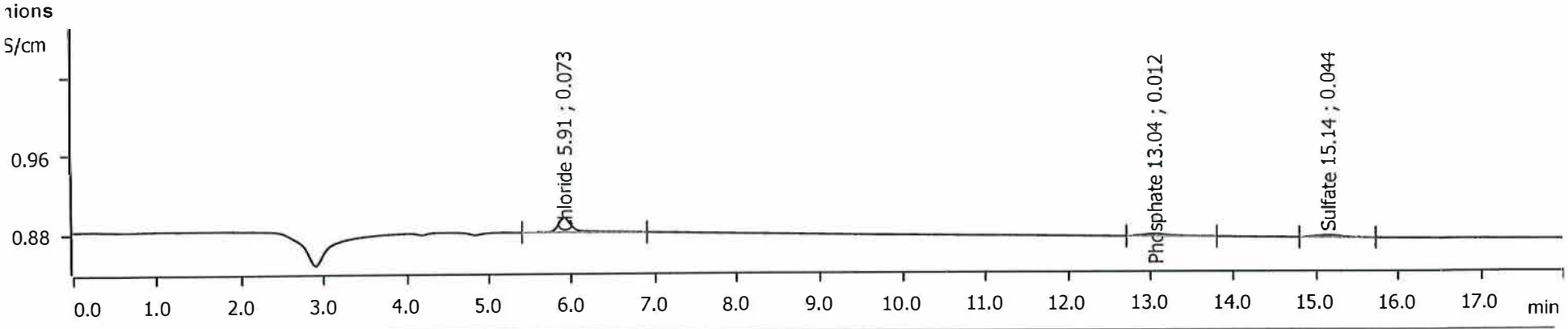


omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Fluoride	4.18	0.450	1.086		1.086	1.086		
Chloride	5.88	0.245	1.032		1.032	1.032		
Nitrite	6.87	0.588	1.072		1.072	1.072		
Bromide	8.44	0.096	1.065		1.065	1.065		
Nitrate	9.53	0.653	1.084		1.084	1.084		
Phosphate	12.94	0.207	1.055		1.055	1.055		
Sulfate	14.91	0.161	1.023		1.023	1.023		

EQ-CCB3

3:14:44 PM UTC-5 2024-01-12



omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Chloride	5.91	0.003	0.073		0.073	0.073		
Phosphate	13.04	0.001	0.012		0.012	0.012		
Sulfate	15.14	0.001	0.044		0.044	0.044		

EQ-CCV3 3:14:42 PM UTC-5 2024-01-12

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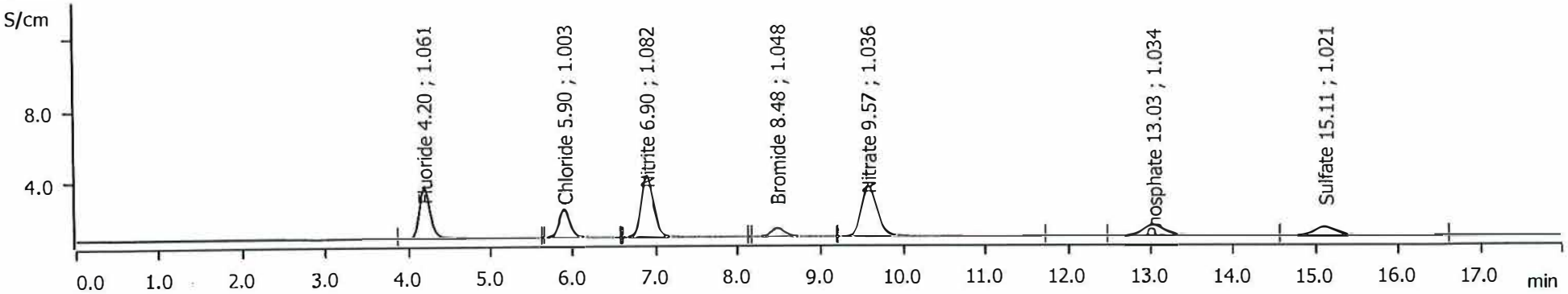
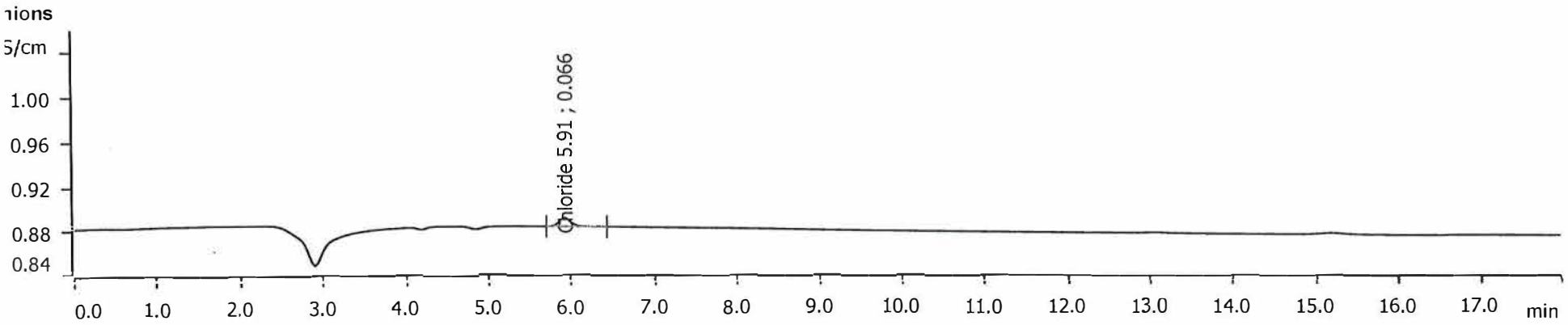


omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Fluoride	4.20	0.438	1.061		1.061	1.061	106.143	
Chloride	5.90	0.238	1.003		1.003	1.003	100.270	
Nitrite	6.90	0.594	1.082		1.082	1.082	108.165	
Bromide	8.48	0.094	1.048		1.048	1.048	104.770	
Nitrate	9.57	0.622	1.036		1.036	1.036	103.587	
Phosphate	13.03	0.203	1.034		1.034	1.034	103.434	
Sulfate	15.11	0.154	1.021		1.021	1.021	102.069	

EQ-CCB4 3:14:29 PM UTC-5 2024-01-12



omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Chloride	5.91	0.001	0.066		0.066	0.066		

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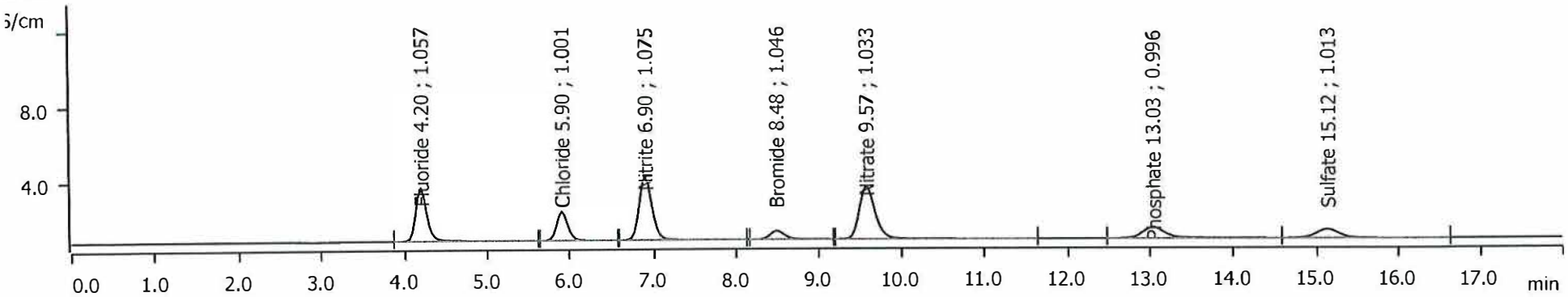

omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Fluoride	4.20	0.436	1.057		1.057	1.057	105.708	
Chloride	5.90	0.237	1.001		1.001	1.001	100.065	
Nitrite	6.90	0.590	1.075		1.075	1.075	107.505	
Bromide	8.48	0.093	1.046		1.046	1.046	104.579	
Nitrate	9.57	0.620	1.033		1.033	1.033	103.270	
Phosphate	13.03	0.195	0.996		0.996	0.996	99.614	
Sulfate	15.12	0.153	1.013		1.013	1.013	101.350	

EQ-CCB5 3:14:17 PM UTC-5 2024-01-12

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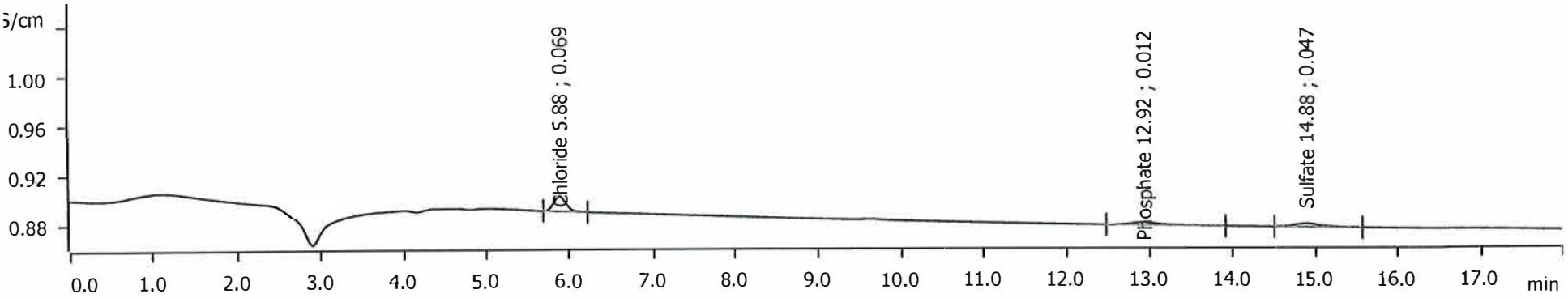
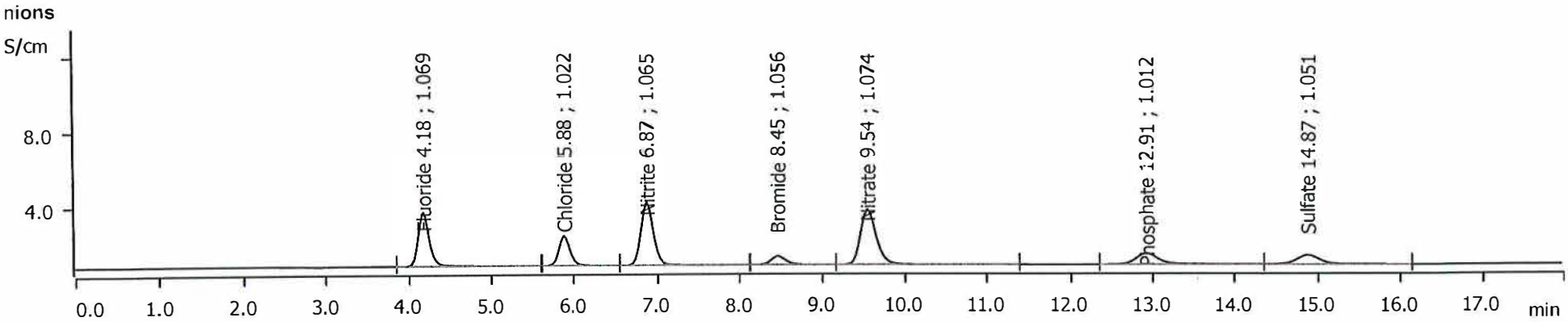


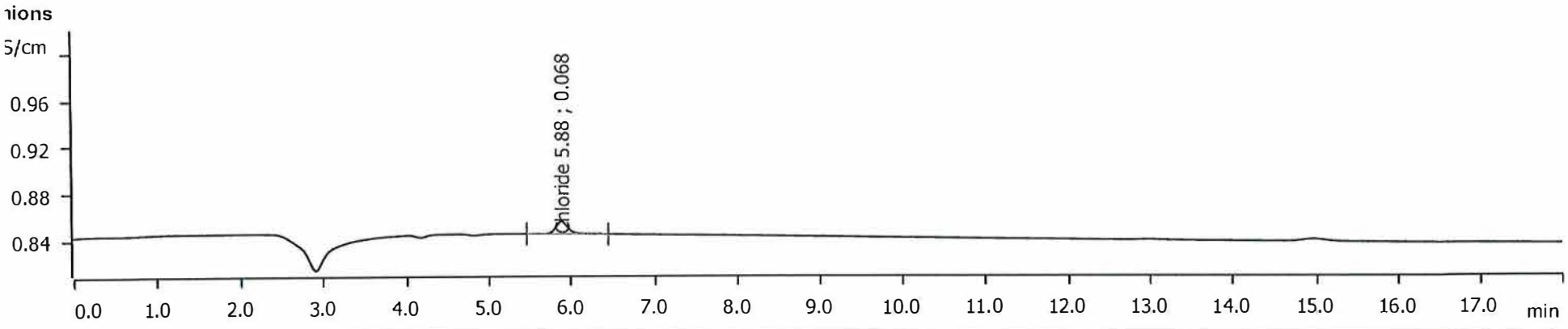
omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Chloride	5.88	0.002	0.069		0.069	0.069		
Phosphate	12.92	0.001	0.012		0.012	0.012		
Sulfate	14.88	0.001	0.047		0.047	0.047		

EQ-CCV5 3:14:15 PM UTC-5 2024-01-12



omponent name	Retention time min	Area (µS/cm) x min	Concentration ppm	Standard concentration	Concentration_On-Column ppm	Final Concentration ppm	Check Std Recovery %	Std Recovery %
Fluoride	4.18	0.442	1.069		1.069	1.069	106.933	
Chloride	5.88	0.243	1.022		1.022	1.022	102.174	
Nitrite	6.87	0.583	1.065		1.065	1.065	106.541	
Bromide	8.45	0.095	1.056		1.056	1.056	105.555	
Nitrate	9.54	0.647	1.074		1.074	1.074	107.380	
Phosphate	12.91	0.198	1.012		1.012	1.012	101.150	
Sulfate	14.87	0.159	1.051		1.051	1.051	105.064	

EQ-CCB6 3:14:07 PM UTC-5 2024-01-12



omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Chloride	5.88	0.002	0.068		0.068	0.068		

EQ-CCV6 3:14:03 PM UTC-5 2024-01-12

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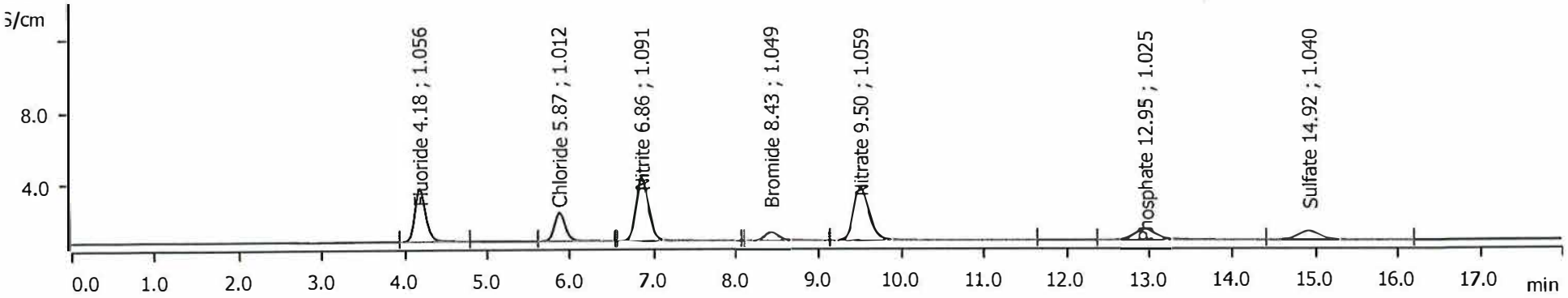

omponent name	Retention time	Area	Concentration	Standard concentration	Concentration_On-Column	Final Concentration	Check Std Recovery	Std Recovery
	min	(µS/cm) x min	ppm		ppm	ppm	%	%
Fluoride	4.18	0.435	1.056		1.056	1.056	105.550	
Chloride	5.87	0.240	1.012		1.012	1.012	101.185	
Nitrite	6.86	0.601	1.091		1.091	1.091	109.138	
Bromide	8.43	0.094	1.049		1.049	1.049	104.903	
Nitrate	9.50	0.637	1.059		1.059	1.059	105.935	
Phosphate	12.95	0.201	1.025		1.025	1.025	102.469	
Sulfate	14.92	0.157	1.040		1.040	1.040	103.982	

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LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

EPA 8270 E

110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

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QC SUMMARY

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SYSTEM MONITORING COMPOUND SUMMARY

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Instrument:	ChemStation04

	2FP (12.7% -	FBP (40.4% -	NBZ (47.3% -	PD6 (7.73% -	TBP (38.5% -	TP (45.7% -
3100519-01	*	*	*	*	63	108
3100519-02	43	69	63	40	91	108
3100519-03	*	3*	*	*	80	117
3100519-04	43	76	63	42	95	106
3100519-05	38	69	56	39	89	118
3100519-06	*	*	*	*	78	120
3100519-07	37	85	70	44	90	128
B341004-BLK1	41	68	58	41	98	117
B341004-BS1	51	87	78	49	110	134
B341004-MS1	47	81	68	47	106	120
B341004-MSD1	53	90	77	53	110	125

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8270 E
Batch:	B341004	Preparation:	EPA 3510 C
% Solids:		Laboratory ID:	B341004-MS1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	QC LIMITS REC.
Pyridine	80.0	ND	36.0	45	6.24 - 74.7
N-Nitrosodimethylamine	80.0	ND	45.5	57	9.65 - 86
Phenol	80.0	ND	42.5	53	18.2 - 60.8
Aniline	80.0	ND	28.8	36	12.5 - 92.6
2-Chlorophenol	80.0	ND	50.9	64	26.1 - 108
Bis(2-Chloroethyl)ether	80.0	ND	52.9	66	12.2 - 127
1,3-Dichlorobenzene	80.0	ND	48.0	60	3.17 - 111
1,4-Dichlorobenzene	80.0	ND	49.3	62	0.523 - 109
Benzyl alcohol	80.0	ND	63.1	79	20.8 - 117
1,2-Dichlorobenzene	80.0	ND	51.7	65	11.7 - 110
2-Methylphenol	80.0	ND	60.6	76	15.8 - 107
2,2'-Oxybis(1-Chloropropane)	80.0	ND	52.1	65	21.1 - 122
Hexachloroethane	80.0	ND	45.2	56	11.7 - 126
3/4-Methylphenol (m-Cresol/p-Cresol)	80.0	ND	62.5	78	13.2 - 112
N-Nitroso-di-n-propylamine	80.0	ND	73.6	92	30.8 - 131
Nitrobenzene	80.0	ND	53.4	67	16.7 - 135
Isophorone	80.0	ND	85.2	106	38.5 - 124
2-Nitrophenol	80.0	ND	69.4	87	24.6 - 141
2,4-Dimethylphenol	80.0	ND	70.3	88	28.5 - 121
Benzoic Acid	80.0	ND	16.2	20	14.9 - 113
bis(2-Chloroethoxy)methane	80.0	ND	74.4	93	36.4 - 118
2,4-Dichlorophenol	80.0	ND	71.3	89	34 - 126
1,2,4-Trichlorobenzene	80.0	ND	62.2	78	20 - 104
Naphthalene	80.0	ND	56.0	70	28.2 - 109

LONG ISLAND ANALYTICAL LABORATORIES INC.
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NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8270 E
Batch:	B341004	Preparation:	EPA 3510 C
% Solids:		Laboratory ID:	B341004-MS1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.		QC LIMITS REC.
4-Chloroaniline	80.0	ND	21.6	27		14.9 - 114
Hexachlorobutadiene	80.0	ND	51.4	64		17.6 - 118
4-Chloro-3-methylphenol	80.0	ND	81.1	101		37.8 - 130
2-Methylnaphthalene	80.0	ND	66.6	83		24.5 - 117
Hexachlorocyclopentadiene	80.0	ND	45.1	56		5.36 - 116
2,4,6-Trichlorophenol	80.0	ND	85.9	107		32.9 - 133
2,4,5-Trichlorophenol	80.0	ND	89.6	112		34.7 - 131
2-Chloronaphthalene	80.0	ND	76.6	96		34 - 113
2-Nitroaniline	80.0	ND	100	125		7.74 - 141
Dimethyl phthalate	80.0	ND	116	145	*	43 - 128
Acenaphthylene	80.0	ND	88.4	110		29.4 - 126
2,6-Dinitrotoluene	80.0	ND	117	146	*	46.9 - 136
3-Nitroaniline	80.0	ND	18.3	23		5.82 - 140
Acenaphthene	80.0	ND	62.5	78		36.2 - 117
2,4-Dinitrophenol	80.0	ND	62.7	78		20.1 - 156
Dibenzofuran	80.0	ND	67.8	85		40.1 - 115
4-Nitrophenol	80.0	ND	80.8	101		20.5 - 127
2,4-Dinitrotoluene	80.0	ND	109	137		33.6 - 150
Fluorene	80.0	ND	74.1	93		41.7 - 127
Diethyl phthalate	80.0	ND	90.2	113		45.4 - 139
4-Chlorophenyl phenyl ether	80.0	ND	74.6	93		39.4 - 122
4-Nitroaniline	80.0	ND	36.4	46		20.3 - 147
4,6-Dinitro-2-methylphenol	80.0	ND	101	126		40.3 - 137
N-Nitrosodiphenylamine	80.0	ND	87.4	109		44.5 - 129

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8270 E
Batch:	B341004	Preparation:	EPA 3510 C
% Solids:		Laboratory ID:	B341004-MS1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.		QC LIMITS REC.
4-Bromophenyl phenyl ether	80.0	ND	86.3	108		43.5 - 127
Hexachlorobenzene	80.0	ND	90.5	113		31.3 - 126
Pentachlorophenol	80.0	ND	121	151	*	35.8 - 136
Phenanthrene	80.0	ND	69.0	86		47.6 - 116
Anthracene	80.0	ND	70.0	88		49.7 - 125
Carbazole	80.0	ND	79.9	100		51.7 - 130
Di-n-butyl phthalate	80.0	ND	93.3	117		51.1 - 146
Fluoranthene	80.0	ND	95.8	120		51.6 - 125
Pyrene	80.0	ND	100	125		49.9 - 125
Butyl benzyl phthalate	80.0	ND	146	182	*	42.6 - 155
Benzo(a)anthracene	80.0	ND	145	182	*	42.6 - 133
Chrysene	80.0	ND	71.3	89		39.7 - 135
3,3'-Dichlorobenzidine	80.0	ND	15.5	19		3.52 - 164
Bis(2-Ethylhexyl)phthalate	80.0	ND	81.0	101		30.4 - 154
Di-n-octyl phthalate	80.0	ND	102	128		43.4 - 149
Benzo(b)fluoranthene	80.0	ND	84.7	106		45.9 - 139
Benzo(k)fluoranthene	80.0	ND	81.2	102		44.2 - 140
Benzo(a)pyrene	80.0	ND	84.6	106		46.8 - 150
Indeno(1,2,3-cd)pyrene	80.0	ND	60.9	76		51.6 - 143
Dibenzo(a,h)anthracene	80.0	ND	59.7	75		48.6 - 144
Benzo(g,h,i)perylene	80.0	ND	55.5	69		51.3 - 144
1,2-Diphenylhydrazine/Azobenzene	80.0	ND	75.8	95		0 - 200
n-Decane	80.0	ND	38.2	48	*	70 - 130
n-Octadecane	80.0	ND	74.1	93		70 - 130

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8270 E
Batch:	B341004	Preparation:	EPA 3510 C
% Solids:		Laboratory ID:	B341004-MSD1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD		QC LIMITS RPD	QC LIMITS REC.
Pyridine	80.0	28.6	36	23	*	20	6.24 - 74.7
N-Nitrosodimethylamine	80.0	29.1	36	44	*	20	9.65 - 86
Phenol	80.0	24.6	31	53	*	20	18.2 - 60.8
Aniline	80.0	12.2	15	81	*	20	12.5 - 92.6
2-Chlorophenol	80.0	31.4	39	47	*	20	26.1 - 108
Bis(2-Chloroethyl)ether	80.0	31.8	40	50	*	20	12.2 - 127
1,3-Dichlorobenzene	80.0	30.5	38	45	*	20	3.17 - 111
1,4-Dichlorobenzene	80.0	30.9	39	46	*	20	0.523 - 109
Benzyl alcohol	80.0	37.9	47	50	*	20	20.8 - 117
1,2-Dichlorobenzene	80.0	32.0	40	47	*	20	11.7 - 110
2-Methylphenol	80.0	36.8	46	49	*	20	15.8 - 107
2,2'-Oxybis(1-Chloropropane)	80.0	32.4	40	47	*	20	21.1 - 122
Hexachloroethane	80.0	28.6	36	45	*	20	11.7 - 126
3/4-Methylphenol (m-Cresol/p-Cres(	80.0	37.0	46	51	*	20	13.2 - 112
N-Nitroso-di-n-propylamine	80.0	44.4	56	49	*	20	30.8 - 131
Nitrobenzene	80.0	34.0	42	44	*	20	16.7 - 135
Isophorone	80.0	50.7	63	51	*	20	38.5 - 124
2-Nitrophenol	80.0	42.3	53	49	*	20	24.6 - 141
2,4-Dimethylphenol	80.0	39.2	49	57	*	20	28.5 - 121
Benzoic Acid	80.0	23.1	29	35	*	20	14.9 - 113
bis(2-Chloroethoxy)methane	80.0	44.1	55	51	*	20	36.4 - 118
2,4-Dichlorophenol	80.0	42.6	53	51	*	20	34 - 126
1,2,4-Trichlorobenzene	80.0	37.8	47	49	*	20	20 - 104
Naphthalene	80.0	33.6	42	50	*	20	28.2 - 109

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8270 E
Batch:	B341004	Preparation:	EPA 3510 C
% Solids:		Laboratory ID:	B341004-MSD1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
4-Chloroaniline	80.0	4.76	6	*	128	*	20	14.9 - 114
Hexachlorobutadiene	80.0	31.6	40		48	*	20	17.6 - 118
4-Chloro-3-methylphenol	80.0	46.5	58		54	*	20	37.8 - 130
2-Methylnaphthalene	80.0	39.4	49		51	*	20	24.5 - 117
Hexachlorocyclopentadiene	80.0	25.5	32		56	*	20	5.36 - 116
2,4,6-Trichlorophenol	80.0	50.2	63		52	*	20	32.9 - 133
2,4,5-Trichlorophenol	80.0	53.4	67		51	*	20	34.7 - 131
2-Chloronaphthalene	80.0	44.8	56		52	*	20	34 - 113
2-Nitroaniline	80.0	58.6	73		52	*	20	7.74 - 141
Dimethyl phthalate	80.0	68.7	86		51	*	20	43 - 128
Acenaphthylene	80.0	51.6	64		53	*	20	29.4 - 126
2,6-Dinitrotoluene	80.0	69.0	86		51	*	20	46.9 - 136
3-Nitroaniline	80.0	5.64	7		106	*	20	5.82 - 140
Acenaphthene	80.0	37.2	47		51	*	20	36.2 - 117
2,4-Dinitrophenol	80.0	38.1	48		49	*	20	20.1 - 156
Dibenzofuran	80.0	40.2	50		51	*	20	40.1 - 115
4-Nitrophenol	80.0	47.7	60		52	*	20	20.5 - 127
2,4-Dinitrotoluene	80.0	68.7	86		46	*	20	33.6 - 150
Fluorene	80.0	43.6	54		52	*	20	41.7 - 127
Diethyl phthalate	80.0	52.4	65		53	*	20	45.4 - 139
4-Chlorophenyl phenyl ether	80.0	44.7	56		50	*	20	39.4 - 122
4-Nitroaniline	80.0	22.9	29		46	*	20	20.3 - 147
4,6-Dinitro-2-methylphenol	80.0	55.7	70		58	*	20	40.3 - 137
N-Nitrosodiphenylamine	80.0	50.4	63		54	*	20	44.5 - 129

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8270 E
Batch:	B341004	Preparation:	EPA 3510 C
% Solids:		Laboratory ID:	B341004-MSD1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
4-Bromophenyl phenyl ether	80.0	52.8	66		48	*	20	43.5 - 127
Hexachlorobenzene	80.0	55.8	70		47	*	20	31.3 - 126
Pentachlorophenol	80.0	72.4	90		50	*	20	35.8 - 136
Phenanthrene	80.0	41.9	52		49	*	20	47.6 - 116
Anthracene	80.0	42.5	53		49	*	20	49.7 - 125
Carbazole	80.0	48.9	61		48	*	20	51.7 - 130
Di-n-butyl phthalate	80.0	57.7	72		47	*	20	51.1 - 146
Fluoranthene	80.0	57.6	72		50	*	20	51.6 - 125
Pyrene	80.0	59.0	74		52	*	20	49.9 - 125
Butyl benzyl phthalate	80.0	90.1	113		47	*	20	42.6 - 155
Benzo(a)anthracene	80.0	85.7	107		52	*	20	42.6 - 133
Chrysene	80.0	43.2	54		49	*	20	39.7 - 135
3,3'-Dichlorobenzidine	80.0	3.68	5		123	*	20	3.52 - 164
Bis(2-Ethylhexyl)phthalate	80.0	50.1	63		47	*	20	30.4 - 154
Di-n-octyl phthalate	80.0	60.0	75		52	*	20	43.4 - 149
Benzo(b)fluoranthene	80.0	51.6	64		49	*	20	45.9 - 139
Benzo(k)fluoranthene	80.0	49.6	62		48	*	20	44.2 - 140
Benzo(a)pyrene	80.0	51.0	64		50	*	20	46.8 - 150
Indeno(1,2,3-cd)pyrene	80.0	37.0	46	*	49	*	20	51.6 - 143
Dibenzo(a,h)anthracene	80.0	36.3	45	*	49	*	20	48.6 - 144
Benzo(g,h,i)perylene	80.0	33.5	42	*	49	*	20	51.3 - 144
1,2-Diphenylhydrazine/Azobenzene	80.0	44.5	56		52		200	0 - 200
n-Decane	80.0	25.3	32	*	41	*	20	70 - 130
n-Octadecane	80.0	46.2	58	*	46	*	20	70 - 130

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Preparation:	EPA 3510 C
Batch:	B341004	Laboratory ID:	B341004-BS1
Column:		Initial/Final:	250 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Pyridine	80.0	47.4	59	8.86 - 73.5
N-Nitrosodimethylamine	80.0	53.1	66	20.9 - 86.7
Phenol	80.0	42.4	53	15.5 - 68.6
Aniline	80.0	27.0	34	6.22 - 103
2-Chlorophenol	80.0	55.8	70	42.7 - 104
Bis(2-Chloroethyl)ether	80.0	57.6	72	49.9 - 111
1,3-Dichlorobenzene	80.0	56.1	70	16.2 - 109
1,4-Dichlorobenzene	80.0	56.9	71	20.9 - 106
Benzyl alcohol	80.0	68.8	86	29.2 - 117
1,2-Dichlorobenzene	80.0	58.1	73	23.7 - 107
2-Methylphenol	80.0	55.9	70	28.7 - 108
2,2'-Oxybis(1-Chloropropane)	80.0	58.2	73	42.3 - 116
Hexachloroethane	80.0	52.4	65	6.73 - 116
3/4-Methylphenol (m-Cresol/p-Cresol)	80.0	59.0	74	25.7 - 106
N-Nitroso-di-n-propylamine	80.0	77.6	97	49.6 - 121
Nitrobenzene	80.0	57.1	71	45.7 - 128
Isophorone	80.0	88.6	111	55.9 - 121
2-Nitrophenol	80.0	75.7	95	31 - 150
2,4-Dimethylphenol	80.0	60.3	75	41 - 119
Benzoic Acid	80.0	62.1	78	6.43 - 123
bis(2-Chloroethoxy)methane	80.0	78.0	97	54.2 - 113
2,4-Dichlorophenol	80.0	74.7	93	49.7 - 118
1,2,4-Trichlorobenzene	80.0	69.9	87	27.4 - 107
Naphthalene	80.0	60.7	76	33.1 - 115
4-Chloroaniline	80.0	14.4	18	8.71 - 124
Hexachlorobutadiene	80.0	56.2	70	3.77 - 120
4-Chloro-3-methylphenol	80.0	79.0	99	50 - 123
2-Methylnaphthalene	80.0	70.2	88	44.2 - 109
Hexachlorocyclopentadiene	80.0	52.0	65	15.6 - 115

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Preparation:	EPA 3510 C
Batch:	B341004	Laboratory ID:	B341004-BS1
Column:		Initial/Final:	250 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.		QC LIMITS REC.
2,4,6-Trichlorophenol	80.0	87.8	110		40.3 - 136
2,4,5-Trichlorophenol	80.0	94.3	118		41.7 - 135
2-Chloronaphthalene	80.0	78.5	98		48.7 - 105
2-Nitroaniline	80.0	101	126		32.7 - 144
Dimethyl phthalate	80.0	116	146	*	62.6 - 118
Acenaphthylene	80.0	90.1	113		45.1 - 121
2,6-Dinitrotoluene	80.0	116	145	*	59.5 - 135
3-Nitroaniline	80.0	12.0	15	*	37.2 - 142
Acenaphthene	80.0	64.0	80		51.5 - 111
2,4-Dinitrophenol	80.0	83.7	105		22 - 149
Dibenzofuran	80.0	69.7	87		52.6 - 112
4-Nitrophenol	80.0	85.5	107		1.38 - 126
2,4-Dinitrotoluene	80.0	110	138		46.1 - 148
Fluorene	80.0	76.6	96		58.7 - 114
Diethyl phthalate	80.0	91.9	115		52.8 - 135
4-Chlorophenyl phenyl ether	80.0	76.8	96		56.6 - 110
4-Nitroaniline	80.0	29.1	36		30.8 - 155
4,6-Dinitro-2-methylphenol	80.0	112	140		30.5 - 152
N-Nitrosodiphenylamine	80.0	63.2	79		52.6 - 124
4-Bromophenyl phenyl ether	80.0	88.7	111		57.9 - 118
Hexachlorobenzene	80.0	95.4	119		44.2 - 125
Pentachlorophenol	80.0	127	159	*	26.1 - 144
Phenanthrene	80.0	71.9	90		58.7 - 116
Anthracene	80.0	72.5	91		63.7 - 121
Carbazole	80.0	80.6	101		59 - 130
Di-n-butyl phthalate	80.0	98.4	123		51.6 - 147
Fluoranthene	80.0	98.3	123		61.2 - 125
Pyrene	80.0	104	130	*	60.9 - 125
Butyl benzyl phthalate	80.0	152	190	*	30.9 - 158

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Preparation:	EPA 3510 C
Batch:	B341004	Laboratory ID:	B341004-BS1
Column:		Initial/Final:	250 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.		QC LIMITS REC.
Benzo(a)anthracene	80.0	151	188	*	59.6 - 128
Chrysene	80.0	75.2	94		54.1 - 126
3,3'-Dichlorobenzidine	80.0	ND	0	*	28.3 - 173
Bis(2-Ethylhexyl)phthalate	80.0	84.8	106		34.9 - 154
Di-n-octyl phthalate	80.0	106	133		56.2 - 136
Benzo(b)fluoranthene	80.0	87.0	109		53.4 - 135
Benzo(k)fluoranthene	80.0	84.4	106		55.4 - 140
Benzo(a)pyrene	80.0	84.2	105		59.6 - 141
Indeno(1,2,3-cd)pyrene	80.0	64.5	81		51.7 - 144
Dibenzo(a,h)anthracene	80.0	62.8	78		53.5 - 139
Benzo(g,h,i)perylene	80.0	56.5	71		60.2 - 138
1,2-Diphenylhydrazine/Azobenzene	80.0	78.6	98		0 - 200
n-Decane	80.0	43.8	55		13.5 - 121
n-Octadecane	80.0	78.0	98		42.8 - 121

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

4 - FORM IV
METHOD BLANK SUMMARY

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Blank ID:	B341004-BLK1	Batch:	B341004

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
Matrix Spike Dup	B341004-MSD1	B341004-MSD1.D	21:59
Matrix Spike	B341004-MS1	B341004-MS1.D	21:17
LCS	B341004-BS1	B341004-BS1.D	20:35
EQ	3100519-07	3100519-07.D	02:55
Dup	3100519-06	3100519-06.D	02:13
MW-7C	3100519-05	3100519-05.D	01:30
MW-7B	3100519-04	3100519-04.D	00:48
MW-7A	3100519-03	3100519-03.D	00:06
MW-6AR	3100519-02	3100519-02.D	23:24
MW-3A	3100519-01	3100519-01.D	22:41

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S335054	Instrument:	ChemStation04
		Calibration:	L335005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S335054-ICV1)			*Lab File ID: SEQ-ICV1.D*			*Analyzed: 08/31/23 19:19*			
1,4-Dichlorobenzene-d4	202816	5.641	237158	5.641	86	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	759282	7.495	876901	7.495	87	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	414027	10.264	483384	10.264	86	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	667639	12.595	793839	12.595	84	50 - 200	0.0000	+/-0.50	
Chrysene-d12	482005	16.856	565439	16.856	85	50 - 200	0.0000	+/-0.50	
Perylene-d12	461682	19.399	543984	19.399	85	50 - 200	0.0000	+/-0.50	
Calibration Check (S341002-CCV1)			*Lab File ID: SEQ-CCV1.D*			*Analyzed: 10/11/23 12:07*			
1,4-Dichlorobenzene-d4	150953	5.603	237158	5.641	64	50 - 200	-0.0380	+/-0.50	
Naphthalene-d8	540848	7.447	876901	7.495	62	50 - 200	-0.0480	+/-0.50	
Acenaphthene-d10	275743	10.206	483384	10.264	57	50 - 200	-0.0580	+/-0.50	
Phenanthrene-d10	441379	12.532	793839	12.595	56	50 - 200	-0.0630	+/-0.50	
Chrysene-d12	345595	16.779	565439	16.856	61	50 - 200	-0.0770	+/-0.50	
Perylene-d12	334908	19.283	543984	19.399	62	50 - 200	-0.1160	+/-0.50	
Blank (B341004-BLK1)			*Lab File ID: B341004-BLK1.D*			*Analyzed: 10/11/23 19:52*			
1,4-Dichlorobenzene-d4	172499	5.603	150953	5.603	114	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	633117	7.447	540848	7.447	117	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	338769	10.206	275743	10.206	123	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	527482	12.532	441379	12.532	120	50 - 200	0.0000	+/-0.50	
Chrysene-d12	408250	16.779	345595	16.779	118	50 - 200	0.0000	+/-0.50	
Perylene-d12	400079	19.283	334908	19.283	119	50 - 200	0.0000	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S341002	Instrument:	ChemStation04
		Calibration:	L335005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (B341004-BS1)			*Lab File ID: B341004-BS1.D*			*Analyzed: 10/11/23 20:35*			
1,4-Dichlorobenzene-d4	154050	5.603	150953	5.603	102	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	563960	7.447	540848	7.447	104	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	297818	10.206	275743	10.206	108	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	459959	12.532	441379	12.532	104	50 - 200	0.0000	+/-0.50	
Chrysene-d12	360725	16.779	345595	16.779	104	50 - 200	0.0000	+/-0.50	
Perylene-d12	365796	19.283	334908	19.283	109	50 - 200	0.0000	+/-0.50	
Matrix Spike (B341004-MS1)			*Lab File ID: B341004-MS1.D*			*Analyzed: 10/11/23 21:17*			
1,4-Dichlorobenzene-d4	162058	5.603	150953	5.603	107	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	586108	7.447	540848	7.447	108	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	313850	10.211	275743	10.206	114	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	488155	12.532	441379	12.532	111	50 - 200	0.0000	+/-0.50	
Chrysene-d12	381192	16.784	345595	16.779	110	50 - 200	0.0050	+/-0.50	
Perylene-d12	388003	19.283	334908	19.283	116	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B341004-MSD1)			*Lab File ID: B341004-MSD1.D*			*Analyzed: 10/11/23 21:59*			
1,4-Dichlorobenzene-d4	167561	5.603	150953	5.603	111	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	610852	7.447	540848	7.447	113	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	320877	10.206	275743	10.206	116	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	497311	12.532	441379	12.532	113	50 - 200	0.0000	+/-0.50	
Chrysene-d12	376443	16.779	345595	16.779	109	50 - 200	0.0000	+/-0.50	
Perylene-d12	377968	19.283	334908	19.283	113	50 - 200	0.0000	+/-0.50	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
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NJDEP# NY012
PADEP# 68-2943

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S335054	Instrument:	ChemStation04
		Calibration:	L335005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S335054-ICV1)			*Lab File ID: SEQ-ICV1.D*			*Analyzed: 08/31/23 19:19*			
1,4-Dichlorobenzene-d4	202816	5.641	237158	5.641	86	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	759282	7.495	876901	7.495	87	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	414027	10.264	483384	10.264	86	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	667639	12.595	793839	12.595	84	50 - 200	0.0000	+/-0.50	
Chrysene-d12	482005	16.856	565439	16.856	85	50 - 200	0.0000	+/-0.50	
Perylene-d12	461682	19.399	543984	19.399	85	50 - 200	0.0000	+/-0.50	
Calibration Check (S341002-CCV1)			*Lab File ID: SEQ-CCV1.D*			*Analyzed: 10/11/23 12:07*			
1,4-Dichlorobenzene-d4	150953	5.603	237158	5.641	64	50 - 200	-0.0380	+/-0.50	
Naphthalene-d8	540848	7.447	876901	7.495	62	50 - 200	-0.0480	+/-0.50	
Acenaphthene-d10	275743	10.206	483384	10.264	57	50 - 200	-0.0580	+/-0.50	
Phenanthrene-d10	441379	12.532	793839	12.595	56	50 - 200	-0.0630	+/-0.50	
Chrysene-d12	345595	16.779	565439	16.856	61	50 - 200	-0.0770	+/-0.50	
Perylene-d12	334908	19.283	543984	19.399	62	50 - 200	-0.1160	+/-0.50	
Blank (B341004-BLK1)			*Lab File ID: B341004-BLK1.D*			*Analyzed: 10/11/23 19:52*			
1,4-Dichlorobenzene-d4	172499	5.603	150953	5.603	114	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	633117	7.447	540848	7.447	117	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	338769	10.206	275743	10.206	123	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	527482	12.532	441379	12.532	120	50 - 200	0.0000	+/-0.50	
Chrysene-d12	408250	16.779	345595	16.779	118	50 - 200	0.0000	+/-0.50	
Perylene-d12	400079	19.283	334908	19.283	119	50 - 200	0.0000	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S341002	Instrument:	ChemStation04
		Calibration:	L335005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (B341004-BS1)			*Lab File ID: B341004-BS1.D*			*Analyzed: 10/11/23 20:35*			
1,4-Dichlorobenzene-d4	154050	5.603	150953	5.603	102	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	563960	7.447	540848	7.447	104	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	297818	10.206	275743	10.206	108	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	459959	12.532	441379	12.532	104	50 - 200	0.0000	+/-0.50	
Chrysene-d12	360725	16.779	345595	16.779	104	50 - 200	0.0000	+/-0.50	
Perylene-d12	365796	19.283	334908	19.283	109	50 - 200	0.0000	+/-0.50	
Matrix Spike (B341004-MS1)			*Lab File ID: B341004-MS1.D*			*Analyzed: 10/11/23 21:17*			
1,4-Dichlorobenzene-d4	162058	5.603	150953	5.603	107	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	586108	7.447	540848	7.447	108	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	313850	10.211	275743	10.206	114	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	488155	12.532	441379	12.532	111	50 - 200	0.0000	+/-0.50	
Chrysene-d12	381192	16.784	345595	16.779	110	50 - 200	0.0050	+/-0.50	
Perylene-d12	388003	19.283	334908	19.283	116	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B341004-MSD1)			*Lab File ID: B341004-MSD1.D*			*Analyzed: 10/11/23 21:59*			
1,4-Dichlorobenzene-d4	167561	5.603	150953	5.603	111	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	610852	7.447	540848	7.447	113	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	320877	10.206	275743	10.206	116	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	497311	12.532	441379	12.532	113	50 - 200	0.0000	+/-0.50	
Chrysene-d12	376443	16.779	345595	16.779	109	50 - 200	0.0000	+/-0.50	
Perylene-d12	377968	19.283	334908	19.283	113	50 - 200	0.0000	+/-0.50	

LONG
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"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

SAMPLE DATA

110 Colin Drive • Holbrook, New York 11741
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LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

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1 - FORM I
ANALYSIS DATA SHEET

MW-3A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-01	File ID:	3100519-01.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 08:46	Analyzed:	10/11/23 22:41
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005	Instrument:	ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
110-86-1	Pyridine	10.0	U
62-75-9	N-Nitrosodimethylamine	5.00	U
108-95-2	Phenol	5.00	U
62-53-3	Aniline	5.00	U
95-57-8	2-Chlorophenol	5.00	U
111-44-4	Bis(2-Chloroethyl)ether	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
100-51-6	Benzyl alcohol	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
95-48-7	2-Methylphenol	5.00	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	5.00	U
67-72-1	Hexachloroethane	5.00	U
108-39-4/106-44-5	3/4-Methylphenol (m-Cresol/p-Cresol)	5.00	U
621-64-7	N-Nitroso-di-n-propylamine	5.00	U
98-95-3	Nitrobenzene	5.00	U
78-59-1	Isophorone	5.00	4.K, U
88-75-5	2-Nitrophenol	5.00	4.J, U
105-67-9	2,4-Dimethylphenol	5.00	U
65-85-0	Benzoic Acid	10.0	4.J, U
111-91-1	bis(2-Chloroethoxy)methane	5.00	4.K, U
120-83-2	2,4-Dichlorophenol	5.00	U

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1 - FORM I
ANALYSIS DATA SHEET

MW-3A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-01	File ID:	3100519-01.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 08:46	Analyzed:	10/11/23 22:41
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005	Instrument:	ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	5.00	U
106-47-8	4-Chloroaniline	5.00	U
87-68-3	Hexachlorobutadiene	5.00	U
59-50-7	4-Chloro-3-methylphenol	5.00	U
91-57-6	2-Methylnaphthalene	5.00	U
77-47-4	Hexachlorocyclopentadiene	5.00	U
88-06-2	2,4,6-Trichlorophenol	5.00	U
95-95-4	2,4,5-Trichlorophenol	5.00	U
91-58-7	2-Chloronaphthalene	5.00	4.K, U
88-74-4	2-Nitroaniline	5.00	U
131-11-3	Dimethyl phthalate	5.00	4.K, U
208-96-8	Acenaphthylene	5.00	4.K, U
606-20-2	2,6-Dinitrotoluene	5.00	4.K, U
99-09-2	3-Nitroaniline	5.00	U
83-32-9	Acenaphthene	5.00	U
51-28-5	2,4-Dinitrophenol	10.0	U
132-64-9	Dibenzofuran	5.00	U
100-02-7	4-Nitrophenol	5.00	4.K, U
121-14-2	2,4-Dinitrotoluene	5.00	U
86-73-7	Fluorene	5.00	U
84-66-2	Diethyl phthalate	5.00	4.K, U

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1 - FORM I
ANALYSIS DATA SHEET

MW-3A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-01	File ID:	3100519-01.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 08:46	Analyzed:	10/11/23 22:41
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7005-72-3	4-Chlorophenyl phenyl ether	5.00	U
100-01-6	4-Nitroaniline	5.00	4.K, U
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U
86-30-6	N-Nitrosodiphenylamine	5.00	4.K, U
101-55-3	4-Bromophenyl phenyl ether	5.00	4.K, U
118-74-1	Hexachlorobenzene	5.00	4.K, U
87-86-5	Pentachlorophenol	5.00	4.K, U
85-01-8	Phenanthrene	5.00	U
120-12-7	Anthracene	5.00	U
86-74-8	Carbazole	5.00	U
84-74-2	Di-n-butyl phthalate	5.00	4.K, U
206-44-0	Fluoranthene	5.00	4.K, U
129-00-0	Pyrene	5.00	4.K, U
85-68-7	Butyl benzyl phthalate	5.00	4.K, U
56-55-3	Benzo(a)anthracene	5.00	4.K, U
218-01-9	Chrysene	5.00	U
91-94-1	3,3'-Dichlorobenzidine	5.00	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5.00	U
117-84-0	Di-n-octyl phthalate	5.00	U
205-99-2	Benzo(b)fluoranthene	5.00	U
207-08-9	Benzo(k)fluoranthene	5.00	4.K, U
50-32-8	Benzo(a)pyrene	5.00	U

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MW-3A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-01	File ID:	3100519-01.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 08:46	Analyzed:	10/11/23 22:41
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	4.J, U
53-70-3	Dibenzo(a,h)anthracene	5.00	4.J, U
191-24-2	Benzo(g,h,i)perylene	5.00	4.J, U
122-66-7/103-33-3	1,2-Diphenylhydrazine/Azobenzene	5.00	U
124-18-5	n-Decane	10.0	4.J, U
593-45-3	n-Octadecane	5.00	U

* Values outside of QC limits

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1 - FORM I
ANALYSIS DATA SHEET

MW-6AR

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-02	File ID:	3100519-02.D
Sampled:	10/04/23 08:30	Prepared:	10/09/23 08:46	Analyzed:	10/11/23 23:24
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005	Instrument:	ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
110-86-1	Pyridine	10.0	U
62-75-9	N-Nitrosodimethylamine	5.00	U
108-95-2	Phenol	5.00	U
62-53-3	Aniline	5.00	U
95-57-8	2-Chlorophenol	5.00	U
111-44-4	Bis(2-Chloroethyl)ether	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
100-51-6	Benzyl alcohol	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
95-48-7	2-Methylphenol	5.00	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	5.00	U
67-72-1	Hexachloroethane	5.00	U
108-39-4/106-44-5	3/4-Methylphenol (m-Cresol/p-Cresol)	5.00	U
621-64-7	N-Nitroso-di-n-propylamine	5.00	U
98-95-3	Nitrobenzene	5.00	U
78-59-1	Isophorone	5.00	4.K, U
88-75-5	2-Nitrophenol	5.00	4.J, U
105-67-9	2,4-Dimethylphenol	5.00	U
65-85-0	Benzoic Acid	10.0	4.J, U
111-91-1	bis(2-Chloroethoxy)methane	5.00	4.K, U
120-83-2	2,4-Dichlorophenol	5.00	U

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1 - FORM I
ANALYSIS DATA SHEET

MW-6AR

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-02	File ID:	3100519-02.D
Sampled:	10/04/23 08:30	Prepared:	10/09/23 08:46	Analyzed:	10/11/23 23:24
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005	Instrument:	ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	5.00	U
106-47-8	4-Chloroaniline	5.00	U
87-68-3	Hexachlorobutadiene	5.00	U
59-50-7	4-Chloro-3-methylphenol	5.00	U
91-57-6	2-Methylnaphthalene	5.00	U
77-47-4	Hexachlorocyclopentadiene	5.00	U
88-06-2	2,4,6-Trichlorophenol	5.00	U
95-95-4	2,4,5-Trichlorophenol	5.00	U
91-58-7	2-Chloronaphthalene	5.00	4.K, U
88-74-4	2-Nitroaniline	5.00	U
131-11-3	Dimethyl phthalate	5.00	4.K, U
208-96-8	Acenaphthylene	5.00	4.K, U
606-20-2	2,6-Dinitrotoluene	5.00	4.K, U
99-09-2	3-Nitroaniline	5.00	U
83-32-9	Acenaphthene	5.00	U
51-28-5	2,4-Dinitrophenol	10.0	U
132-64-9	Dibenzofuran	5.00	U
100-02-7	4-Nitrophenol	5.00	4.K, U
121-14-2	2,4-Dinitrotoluene	5.00	U
86-73-7	Fluorene	5.00	U
84-66-2	Diethyl phthalate	5.00	4.K, U

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1 - FORM I
ANALYSIS DATA SHEET

MW-6AR

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-02	File ID:	3100519-02.D
Sampled:	10/04/23 08:30	Prepared:	10/09/23 08:46	Analyzed:	10/11/23 23:24
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005	Instrument:	ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7005-72-3	4-Chlorophenyl phenyl ether	5.00	U
100-01-6	4-Nitroaniline	5.00	4.K, U
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U
86-30-6	N-Nitrosodiphenylamine	5.00	4.K, U
101-55-3	4-Bromophenyl phenyl ether	5.00	4.K, U
118-74-1	Hexachlorobenzene	5.00	4.K, U
87-86-5	Pentachlorophenol	5.00	4.K, U
85-01-8	Phenanthrene	5.00	U
120-12-7	Anthracene	5.00	U
86-74-8	Carbazole	5.00	U
84-74-2	Di-n-butyl phthalate	5.00	4.K, U
206-44-0	Fluoranthene	5.00	4.K, U
129-00-0	Pyrene	5.00	4.K, U
85-68-7	Butyl benzyl phthalate	5.00	4.K, U
56-55-3	Benzo(a)anthracene	5.00	4.K, U
218-01-9	Chrysene	5.00	U
91-94-1	3,3'-Dichlorobenzidine	5.00	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5.00	U
117-84-0	Di-n-octyl phthalate	5.00	U
205-99-2	Benzo(b)fluoranthene	5.00	U
207-08-9	Benzo(k)fluoranthene	5.00	4.K, U
50-32-8	Benzo(a)pyrene	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-6AR

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-02	File ID:	3100519-02.D
Sampled:	10/04/23 08:30	Prepared:	10/09/23 08:46	Analyzed:	10/11/23 23:24
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	4.J, U
53-70-3	Dibenzo(a,h)anthracene	5.00	4.J, U
191-24-2	Benzo(g,h,i)perylene	5.00	4.J, U
122-66-7/103-33-3	1,2-Diphenylhydrazine/Azobenzene	5.00	U
124-18-5	n-Decane	10.0	4.J, U
593-45-3	n-Octadecane	5.00	U

* Values outside of QC limits

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LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 00:06
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
110-86-1	Pyridine	10.0	4.T, U
62-75-9	N-Nitrosodimethylamine	5.00	4.T, U
108-95-2	Phenol	5.00	4.T, U
62-53-3	Aniline	5.00	4.T, U
95-57-8	2-Chlorophenol	5.00	4.T, U
111-44-4	Bis(2-Chloroethyl)ether	5.00	4.T, U
541-73-1	1,3-Dichlorobenzene	5.00	4.T, U
106-46-7	1,4-Dichlorobenzene	5.00	4.T, U
100-51-6	Benzyl alcohol	5.00	4.T, U
95-50-1	1,2-Dichlorobenzene	5.00	4.T, U
95-48-7	2-Methylphenol	5.00	4.T, U
108-60-1	2,2'-Oxybis(1-Chloropropane)	5.00	4.T, U
67-72-1	Hexachloroethane	5.00	4.T, U
108-39-4/106-44-5	3/4-Methylphenol (m-Cresol/p-Cresol)	5.00	4.T, U
621-64-7	N-Nitroso-di-n-propylamine	5.00	4.T, U
98-95-3	Nitrobenzene	5.00	4.T, U
78-59-1	Isophorone	5.00	4.K, 4.T, U
88-75-5	2-Nitrophenol	5.00	4.J, 4.T, U
105-67-9	2,4-Dimethylphenol	5.00	4.T, U
65-85-0	Benzoic Acid	10.0	4.J, 4.T, U
111-91-1	bis(2-Chloroethoxy)methane	5.00	4.K, 4.T, U
120-83-2	2,4-Dichlorophenol	5.00	4.T, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
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AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 00:06
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005	Instrument:	ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
120-82-1	1,2,4-Trichlorobenzene	5.00	4.T, U
91-20-3	Naphthalene	5.00	4.T, U
106-47-8	4-Chloroaniline	5.00	4.T, 4.V, U
87-68-3	Hexachlorobutadiene	5.00	4.T, U
59-50-7	4-Chloro-3-methylphenol	5.00	4.T, U
91-57-6	2-Methylnaphthalene	5.00	4.T, U
77-47-4	Hexachlorocyclopentadiene	5.00	4.T, U
88-06-2	2,4,6-Trichlorophenol	5.00	4.T, U
95-95-4	2,4,5-Trichlorophenol	5.00	4.T, U
91-58-7	2-Chloronaphthalene	5.00	4.K, 4.T, U
88-74-4	2-Nitroaniline	5.00	4.T, U
131-11-3	Dimethyl phthalate	5.00	4.K, 4.U, 4.T, U
208-96-8	Acenaphthylene	5.00	4.K, 4.T, U
606-20-2	2,6-Dinitrotoluene	5.00	4.K, 4.T, 4.U, U
99-09-2	3-Nitroaniline	5.00	4.T, U
83-32-9	Acenaphthene	5.00	4.T, U
51-28-5	2,4-Dinitrophenol	10.0	4.T, U
132-64-9	Dibenzofuran	5.00	4.T, U
100-02-7	4-Nitrophenol	5.00	4.K, 4.T, U
121-14-2	2,4-Dinitrotoluene	5.00	4.T, U
86-73-7	Fluorene	5.00	4.T, U
84-66-2	Diethyl phthalate	5.00	4.K, 4.T, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 00:06
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005	Instrument:	ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7005-72-3	4-Chlorophenyl phenyl ether	5.00	4.T, U
100-01-6	4-Nitroaniline	5.00	4.K, 4.T, U
534-52-1	4,6-Dinitro-2-methylphenol	10.0	4.T, U
86-30-6	N-Nitrosodiphenylamine	5.00	4.K, U
101-55-3	4-Bromophenyl phenyl ether	5.00	4.K, 4.T, U
118-74-1	Hexachlorobenzene	5.00	4.K, 4.T, U
87-86-5	Pentachlorophenol	5.00	4.K, 4.U, 4.T, U
85-01-8	Phenanthrene	5.00	4.T, U
120-12-7	Anthracene	5.00	4.T, U
86-74-8	Carbazole	5.00	4.T, U
84-74-2	Di-n-butyl phthalate	5.00	4.K, 4.T, U
206-44-0	Fluoranthene	5.00	4.K, 4.T, U
129-00-0	Pyrene	5.00	4.K, 4.T, U
85-68-7	Butyl benzyl phthalate	5.00	4.K, 4.U, 4.T, U
56-55-3	Benzo(a)anthracene	5.00	4.K, 4.U, 4.T, U
218-01-9	Chrysene	5.00	4.T, U
91-94-1	3,3'-Dichlorobenzidine	5.00	4.T, U
117-81-7	Bis(2-Ethylhexyl)phthalate	5.00	4.T, U
117-84-0	Di-n-octyl phthalate	5.00	4.T, U
205-99-2	Benzo(b)fluoranthene	5.00	4.T, U
207-08-9	Benzo(k)fluoranthene	5.00	4.K, 4.T, U
50-32-8	Benzo(a)pyrene	5.00	4.T, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
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1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 00:06
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	4.J, 4.V, 4.T, U
53-70-3	Dibenzo(a,h)anthracene	5.00	4.J, 4.V, 4.T, U
191-24-2	Benzo(g,h,i)perylene	5.00	4.J, 4.V, 4.T, U
122-66-7/103-33-3	1,2-Diphenylhydrazine/Azobenzene	5.00	U
124-18-5	n-Decane	10.0	4.J, 4.V, 4.T, U
593-45-3	n-Octadecane	5.00	4.V, 4.T, U

* Values outside of QC limits

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NYSDOH ELAP# 11693
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1 - FORM I
ANALYSIS DATA SHEET

MW-7B

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-04	File ID:	3100519-04.D
Sampled:	10/03/23 16:11	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 00:48
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005	Instrument:	ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
110-86-1	Pyridine	16.0	
62-75-9	N-Nitrosodimethylamine	5.00	U
108-95-2	Phenol	5.00	U
62-53-3	Aniline	5.00	U
95-57-8	2-Chlorophenol	5.00	U
111-44-4	Bis(2-Chloroethyl)ether	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
100-51-6	Benzyl alcohol	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
95-48-7	2-Methylphenol	5.00	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	5.00	U
67-72-1	Hexachloroethane	5.00	U
108-39-4/106-44-5	3/4-Methylphenol (m-Cresol/p-Cresol)	5.00	U
621-64-7	N-Nitroso-di-n-propylamine	5.00	U
98-95-3	Nitrobenzene	5.00	U
78-59-1	Isophorone	5.00	4.K, U
88-75-5	2-Nitrophenol	5.00	4.J, U
105-67-9	2,4-Dimethylphenol	5.00	U
65-85-0	Benzoic Acid	10.0	4.J, U
111-91-1	bis(2-Chloroethoxy)methane	5.00	4.K, U
120-83-2	2,4-Dichlorophenol	5.00	U

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1 - FORM I
ANALYSIS DATA SHEET

MW-7B

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-04	File ID:	3100519-04.D
Sampled:	10/03/23 16:11	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 00:48
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	5.00	U
106-47-8	4-Chloroaniline	5.00	U
87-68-3	Hexachlorobutadiene	5.00	U
59-50-7	4-Chloro-3-methylphenol	5.00	U
91-57-6	2-Methylnaphthalene	5.00	U
77-47-4	Hexachlorocyclopentadiene	5.00	U
88-06-2	2,4,6-Trichlorophenol	5.00	U
95-95-4	2,4,5-Trichlorophenol	5.00	U
91-58-7	2-Chloronaphthalene	5.00	4.K, U
88-74-4	2-Nitroaniline	5.00	U
131-11-3	Dimethyl phthalate	5.00	4.K, U
208-96-8	Acenaphthylene	5.00	4.K, U
606-20-2	2,6-Dinitrotoluene	5.00	4.K, U
99-09-2	3-Nitroaniline	5.00	U
83-32-9	Acenaphthene	5.00	U
51-28-5	2,4-Dinitrophenol	10.0	U
132-64-9	Dibenzofuran	5.00	U
100-02-7	4-Nitrophenol	5.00	4.K, U
121-14-2	2,4-Dinitrotoluene	5.00	U
86-73-7	Fluorene	5.00	U
84-66-2	Diethyl phthalate	5.00	4.K, U

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1 - FORM I
ANALYSIS DATA SHEET

MW-7B

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-04	File ID:	3100519-04.D
Sampled:	10/03/23 16:11	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 00:48
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7005-72-3	4-Chlorophenyl phenyl ether	5.00	U
100-01-6	4-Nitroaniline	5.00	4.K, U
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U
86-30-6	N-Nitrosodiphenylamine	5.00	4.K, U
101-55-3	4-Bromophenyl phenyl ether	5.00	4.K, U
118-74-1	Hexachlorobenzene	5.00	4.K, U
87-86-5	Pentachlorophenol	5.00	4.K, U
85-01-8	Phenanthrene	5.00	U
120-12-7	Anthracene	5.00	U
86-74-8	Carbazole	5.00	U
84-74-2	Di-n-butyl phthalate	5.00	4.K, U
206-44-0	Fluoranthene	5.00	4.K, U
129-00-0	Pyrene	5.00	4.K, U
85-68-7	Butyl benzyl phthalate	5.00	4.K, U
56-55-3	Benzo(a)anthracene	5.00	4.K, U
218-01-9	Chrysene	5.00	U
91-94-1	3,3'-Dichlorobenzidine	5.00	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5.00	U
117-84-0	Di-n-octyl phthalate	5.00	U
205-99-2	Benzo(b)fluoranthene	5.00	U
207-08-9	Benzo(k)fluoranthene	5.00	4.K, U
50-32-8	Benzo(a)pyrene	5.00	U

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1 - FORM I
ANALYSIS DATA SHEET

MW-7B

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-04	File ID:	3100519-04.D
Sampled:	10/03/23 16:11	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 00:48
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	4.J, U
53-70-3	Dibenzo(a,h)anthracene	5.00	4.J, U
191-24-2	Benzo(g,h,i)perylene	5.00	4.J, U
122-66-7/103-33-3	1,2-Diphenylhydrazine/Azobenzene	5.00	U
124-18-5	n-Decane	10.0	4.J, U
593-45-3	n-Octadecane	5.00	U

* Values outside of QC limits

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PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7C

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-05	File ID:	3100519-05.D
Sampled:	10/03/23 14:17	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 01:30
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005	Instrument:	ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
110-86-1	Pyridine	10.0	U
62-75-9	N-Nitrosodimethylamine	5.00	U
108-95-2	Phenol	5.00	U
62-53-3	Aniline	5.00	U
95-57-8	2-Chlorophenol	5.00	U
111-44-4	Bis(2-Chloroethyl)ether	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
100-51-6	Benzyl alcohol	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
95-48-7	2-Methylphenol	5.00	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	5.00	U
67-72-1	Hexachloroethane	5.00	U
108-39-4/106-44-5	3/4-Methylphenol (m-Cresol/p-Cresol)	5.00	U
621-64-7	N-Nitroso-di-n-propylamine	5.00	U
98-95-3	Nitrobenzene	5.00	U
78-59-1	Isophorone	5.00	4.K, U
88-75-5	2-Nitrophenol	5.00	4.J, U
105-67-9	2,4-Dimethylphenol	5.00	U
65-85-0	Benzoic Acid	10.0	4.J, U
111-91-1	bis(2-Chloroethoxy)methane	5.00	4.K, U
120-83-2	2,4-Dichlorophenol	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7C

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-05	File ID:	3100519-05.D
Sampled:	10/03/23 14:17	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 01:30
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005	Instrument:	ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	5.00	U
106-47-8	4-Chloroaniline	5.00	U
87-68-3	Hexachlorobutadiene	5.00	U
59-50-7	4-Chloro-3-methylphenol	5.00	U
91-57-6	2-Methylnaphthalene	5.00	U
77-47-4	Hexachlorocyclopentadiene	5.00	U
88-06-2	2,4,6-Trichlorophenol	5.00	U
95-95-4	2,4,5-Trichlorophenol	5.00	U
91-58-7	2-Chloronaphthalene	5.00	4.K, U
88-74-4	2-Nitroaniline	5.00	U
131-11-3	Dimethyl phthalate	5.00	4.K, U
208-96-8	Acenaphthylene	5.00	4.K, U
606-20-2	2,6-Dinitrotoluene	5.00	4.K, U
99-09-2	3-Nitroaniline	5.00	U
83-32-9	Acenaphthene	5.00	U
51-28-5	2,4-Dinitrophenol	10.0	U
132-64-9	Dibenzofuran	5.00	U
100-02-7	4-Nitrophenol	5.00	4.K, U
121-14-2	2,4-Dinitrotoluene	5.00	U
86-73-7	Fluorene	5.00	U
84-66-2	Diethyl phthalate	5.00	4.K, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7C

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-05	File ID:	3100519-05.D
Sampled:	10/03/23 14:17	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 01:30
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005	Instrument:	ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7005-72-3	4-Chlorophenyl phenyl ether	5.00	U
100-01-6	4-Nitroaniline	5.00	4.K, U
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U
86-30-6	N-Nitrosodiphenylamine	5.00	4.K, U
101-55-3	4-Bromophenyl phenyl ether	5.00	4.K, U
118-74-1	Hexachlorobenzene	5.00	4.K, U
87-86-5	Pentachlorophenol	5.00	4.K, U
85-01-8	Phenanthrene	5.00	U
120-12-7	Anthracene	5.00	U
86-74-8	Carbazole	5.00	U
84-74-2	Di-n-butyl phthalate	5.00	4.K, U
206-44-0	Fluoranthene	5.00	4.K, U
129-00-0	Pyrene	5.00	4.K, U
85-68-7	Butyl benzyl phthalate	5.00	4.K, U
56-55-3	Benzo(a)anthracene	5.00	4.K, U
218-01-9	Chrysene	5.00	U
91-94-1	3,3'-Dichlorobenzidine	5.00	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5.00	U
117-84-0	Di-n-octyl phthalate	5.00	U
205-99-2	Benzo(b)fluoranthene	5.00	U
207-08-9	Benzo(k)fluoranthene	5.00	4.K, U
50-32-8	Benzo(a)pyrene	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
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PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7C

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-05	File ID:	3100519-05.D
Sampled:	10/03/23 14:17	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 01:30
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	4.J, U
53-70-3	Dibenzo(a,h)anthracene	5.00	4.J, U
191-24-2	Benzo(g,h,i)perylene	5.00	4.J, U
122-66-7/103-33-3	1,2-Diphenylhydrazine/Azobenzene	5.00	U
124-18-5	n-Decane	10.0	4.J, U
593-45-3	n-Octadecane	5.00	U

* Values outside of QC limits

110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-06	File ID:	3100519-06.D
Sampled:	10/04/23 00:01	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 02:13
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005	Instrument:	ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
110-86-1	Pyridine	10.0	U
62-75-9	N-Nitrosodimethylamine	5.00	U
108-95-2	Phenol	5.00	U
62-53-3	Aniline	5.00	U
95-57-8	2-Chlorophenol	5.00	U
111-44-4	Bis(2-Chloroethyl)ether	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
100-51-6	Benzyl alcohol	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
95-48-7	2-Methylphenol	5.00	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	5.00	U
67-72-1	Hexachloroethane	5.00	U
108-39-4/106-44-5	3/4-Methylphenol (m-Cresol/p-Cresol)	5.00	U
621-64-7	N-Nitroso-di-n-propylamine	5.00	U
98-95-3	Nitrobenzene	5.00	U
78-59-1	Isophorone	5.00	4.K, U
88-75-5	2-Nitrophenol	5.00	4.J, U
105-67-9	2,4-Dimethylphenol	5.00	U
65-85-0	Benzoic Acid	10.0	4.J, U
111-91-1	bis(2-Chloroethoxy)methane	5.00	4.K, U
120-83-2	2,4-Dichlorophenol	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-06	File ID:	3100519-06.D
Sampled:	10/04/23 00:01	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 02:13
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005	Instrument:	ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	5.00	U
106-47-8	4-Chloroaniline	5.00	U
87-68-3	Hexachlorobutadiene	5.00	U
59-50-7	4-Chloro-3-methylphenol	5.00	U
91-57-6	2-Methylnaphthalene	5.00	U
77-47-4	Hexachlorocyclopentadiene	5.00	U
88-06-2	2,4,6-Trichlorophenol	5.00	U
95-95-4	2,4,5-Trichlorophenol	5.00	U
91-58-7	2-Chloronaphthalene	5.00	4.K, U
88-74-4	2-Nitroaniline	5.00	U
131-11-3	Dimethyl phthalate	5.00	4.K, U
208-96-8	Acenaphthylene	5.00	4.K, U
606-20-2	2,6-Dinitrotoluene	5.00	4.K, U
99-09-2	3-Nitroaniline	5.00	U
83-32-9	Acenaphthene	5.00	U
51-28-5	2,4-Dinitrophenol	10.0	U
132-64-9	Dibenzofuran	5.00	U
100-02-7	4-Nitrophenol	5.00	4.K, U
121-14-2	2,4-Dinitrotoluene	5.00	U
86-73-7	Fluorene	5.00	U
84-66-2	Diethyl phthalate	5.00	4.K, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
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1 - FORM I
ANALYSIS DATA SHEET

Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-06	File ID:	3100519-06.D
Sampled:	10/04/23 00:01	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 02:13
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7005-72-3	4-Chlorophenyl phenyl ether	5.00	U
100-01-6	4-Nitroaniline	5.00	4.K, U
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U
86-30-6	N-Nitrosodiphenylamine	5.00	4.K, U
101-55-3	4-Bromophenyl phenyl ether	5.00	4.K, U
118-74-1	Hexachlorobenzene	5.00	4.K, U
87-86-5	Pentachlorophenol	5.00	4.K, U
85-01-8	Phenanthrene	5.00	U
120-12-7	Anthracene	5.00	U
86-74-8	Carbazole	5.00	U
84-74-2	Di-n-butyl phthalate	5.00	4.K, U
206-44-0	Fluoranthene	5.00	4.K, U
129-00-0	Pyrene	5.00	4.K, U
85-68-7	Butyl benzyl phthalate	5.00	4.K, U
56-55-3	Benzo(a)anthracene	5.00	4.K, U
218-01-9	Chrysene	5.00	U
91-94-1	3,3'-Dichlorobenzidine	5.00	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5.00	U
117-84-0	Di-n-octyl phthalate	5.00	U
205-99-2	Benzo(b)fluoranthene	5.00	U
207-08-9	Benzo(k)fluoranthene	5.00	4.K, U
50-32-8	Benzo(a)pyrene	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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1 - FORM I
ANALYSIS DATA SHEET

Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-06	File ID:	3100519-06.D
Sampled:	10/04/23 00:01	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 02:13
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	4.J, U
53-70-3	Dibenzo(a,h)anthracene	5.00	4.J, U
191-24-2	Benzo(g,h,i)perylene	5.00	4.J, U
122-66-7/103-33-3	1,2-Diphenylhydrazine/Azobenzene	5.00	U
124-18-5	n-Decane	10.0	4.J, U
593-45-3	n-Octadecane	5.00	U

* Values outside of QC limits

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NYSDOH ELAP# 11693
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CTDOH# PH-0284
AIHA# 164456
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PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

EQ

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-07	File ID:	3100519-07.D
Sampled:	10/04/23 09:00	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 02:55
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
110-86-1	Pyridine	10.0	U
62-75-9	N-Nitrosodimethylamine	5.00	U
108-95-2	Phenol	5.00	U
62-53-3	Aniline	5.00	U
95-57-8	2-Chlorophenol	5.00	U
111-44-4	Bis(2-Chloroethyl)ether	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
100-51-6	Benzyl alcohol	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
95-48-7	2-Methylphenol	5.00	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	5.00	U
67-72-1	Hexachloroethane	5.00	U
108-39-4/106-44-5	3/4-Methylphenol (m-Cresol/p-Cresol)	5.00	U
621-64-7	N-Nitroso-di-n-propylamine	5.00	U
98-95-3	Nitrobenzene	5.00	U
78-59-1	Isophorone	5.00	4.K, U
88-75-5	2-Nitrophenol	5.00	4.J, U
105-67-9	2,4-Dimethylphenol	5.00	U
65-85-0	Benzoic Acid	10.0	4.J, U
111-91-1	bis(2-Chloroethoxy)methane	5.00	4.K, U
120-83-2	2,4-Dichlorophenol	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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1 - FORM I
ANALYSIS DATA SHEET

EQ

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-07	File ID:	3100519-07.D
Sampled:	10/04/23 09:00	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 02:55
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	5.00	U
106-47-8	4-Chloroaniline	5.00	U
87-68-3	Hexachlorobutadiene	5.00	U
59-50-7	4-Chloro-3-methylphenol	5.00	U
91-57-6	2-Methylnaphthalene	5.00	U
77-47-4	Hexachlorocyclopentadiene	5.00	U
88-06-2	2,4,6-Trichlorophenol	5.00	U
95-95-4	2,4,5-Trichlorophenol	5.00	U
91-58-7	2-Chloronaphthalene	5.00	4.K, U
88-74-4	2-Nitroaniline	5.00	U
131-11-3	Dimethyl phthalate	5.00	4.K, U
208-96-8	Acenaphthylene	5.00	4.K, U
606-20-2	2,6-Dinitrotoluene	5.00	4.K, U
99-09-2	3-Nitroaniline	5.00	U
83-32-9	Acenaphthene	5.00	U
51-28-5	2,4-Dinitrophenol	10.0	U
132-64-9	Dibenzofuran	5.00	U
100-02-7	4-Nitrophenol	5.00	4.K, U
121-14-2	2,4-Dinitrotoluene	5.00	U
86-73-7	Fluorene	5.00	U
84-66-2	Diethyl phthalate	5.00	4.K, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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1 - FORM I
ANALYSIS DATA SHEET

EQ

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-07	File ID:	3100519-07.D
Sampled:	10/04/23 09:00	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 02:55
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7005-72-3	4-Chlorophenyl phenyl ether	5.00	U
100-01-6	4-Nitroaniline	5.00	4.K, U
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U
86-30-6	N-Nitrosodiphenylamine	5.00	4.K, U
101-55-3	4-Bromophenyl phenyl ether	5.00	4.K, U
118-74-1	Hexachlorobenzene	5.00	4.K, U
87-86-5	Pentachlorophenol	5.00	4.K, U
85-01-8	Phenanthrene	5.00	U
120-12-7	Anthracene	5.00	U
86-74-8	Carbazole	5.00	U
84-74-2	Di-n-butyl phthalate	5.00	4.K, U
206-44-0	Fluoranthene	5.00	4.K, U
129-00-0	Pyrene	5.00	4.K, U
85-68-7	Butyl benzyl phthalate	5.00	4.K, U
56-55-3	Benzo(a)anthracene	5.00	4.K, U
218-01-9	Chrysene	5.00	U
91-94-1	3,3'-Dichlorobenzidine	5.00	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5.00	U
117-84-0	Di-n-octyl phthalate	5.00	U
205-99-2	Benzo(b)fluoranthene	5.00	U
207-08-9	Benzo(k)fluoranthene	5.00	4.K, U
50-32-8	Benzo(a)pyrene	5.00	U

1 - FORM I
ANALYSIS DATA SHEET

EQ

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-07	File ID:	3100519-07.D
Sampled:	10/04/23 09:00	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 02:55
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	4.J, U
53-70-3	Dibenzo(a,h)anthracene	5.00	4.J, U
191-24-2	Benzo(g,h,i)perylene	5.00	4.J, U
122-66-7/103-33-3	1,2-Diphenylhydrazine/Azobenzene	5.00	U
124-18-5	n-Decane	10.0	4.J, U
593-45-3	n-Octadecane	5.00	U

* Values outside of QC limits

LONG
ISLAND
ANALYTICAL
LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

CALIBRATION DATA

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LONG ISLAND ANALYTICAL LABORATORIES INC.
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AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L335005	Instrument:	ChemStation04
		Calibration Date:	9/1/2023 5:06:22PM

COMPOUND	CAL 01	CAL 02	CAL 03	CAL 04	CAL 05	CAL 06
Pyridine	169.8333	166.8139	163.4323	153.3779	155.8798	158.4337
N-Nitrosodimethylamine	86.40214	87.46245	85.23765	81.33987	84.02471	82.95652
2-Fluorophenol	146.7052	146.5925	149.0458	142.575	152.8128	152.1312
Phenol-d6	200.8644	205.0804	205.1427	199.182	204.5618	178.5846
Phenol	139.6692	138.3694	139.0289	142.241	146.1728	158.2306
Aniline	184.0233	185.5399	192.8989	192.4186	205.5548	208.8425
2-Chlorophenol	143.103	148.8249	150.2646	143.7371	150.3233	149.7482
Bis(2-Chloroethyl)ether	147.0755	144.916	141.6518	138.7362	140.5571	139.7384
1,3-Dichlorobenzene	156.8469	156.4101	155.7182	149.1394	151.5363	152.9094
1,4-Dichlorobenzene	153.2531	146.9502	149.4699	143.7337	148.5702	146.8843
Benzyl alcohol	78.77694	129.306	78.40527	81.90658	81.3734	89.91191
1,2-Dichlorobenzene	152.8912	148.1224	150.4921	142.769	150.2711	150.4884
2-Methylphenol	123.9558	129.306	132.1544	126.9888	132.9814	134.0295
2,2'-Oxybis(1-Chloropropane)	173.4187	168.8266	165.3194	160.9695	167.2155	161.8913
Hexachloroethane	55.33743	57.53111	60.30354	58.13002	60.89592	60.05619
3/4-Methylphenol (m-Cresol/p-Cresol)	138.474	136.9731	145.0273	143.9058	154.3685	151.5688
N-Nitroso-di-n-propylamine	94.60807	100.5426	99.32083	96.16711	98.77086	96.68813
Nitrobenzene-d5	158.4965	160.0217	160.7785	154.1099	160.2877	153.9636
Nitrobenzene	163.925	152.8891	153.699	147.1154	151.3172	146.5771
Isophorone	254.67	247.6048	251.5821	249.5197	256.8611	250.1079
2-Nitrophenol	67.70945	69.99496	71.14043	70.54706	77.73077	77.7358
2,4-Dimethylphenol	123.089	110.7137	114.9907	108.5167	114.844	126.0747
Benzoic Acid	43.17582	53.12221	50.12377	51.84223	63.64636	65.2742
bis(2-Chloroethoxy)methane	167.2663	168.3654	171.0201	160.4854	169.4399	167.6445
2,4-Dichlorophenol	108.6213	111.7566	115.1844	109.5944	115.737	116.0884
1,2,4-Trichlorobenzene	128.7363	125.7978	123.991	119.4023	120.4153	121.048
Naphthalene	113.5815	113.7176	114.3886	107.0365	110.3204	109.607
4-Chloroaniline	36.66051	40.41692	41.45655	40.4926	43.91569	45.45885
Hexachlorobutadiene	17.64068	17.37278	17.94641	16.70017	17.13242	17.11132

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L335005	Instrument:	ChemStation04
		Calibration Date:	9/1/2023 5:06:22PM

COMPOUND	CAL 01	CAL 02	CAL 03	CAL 04	CAL 05	CAL 06
4-Chloro-3-methylphenol	31.26287	30.72551	30.41318	28.9068	30.61032	31.13031
2-Methylnaphthalene	75.75681	75.68234	73.68953	71.90367	76.32592	76.93382
Hexachlorocyclopentadiene	3.492457	4.538729	4.865539	5.79176	7.164534	8.716361
2,4,6-Trichlorophenol	19.45438	18.73828	19.56876	18.91707	19.46128	19.64365
2,4,5-Trichlorophenol	20.40354	22.67953	21.16108	21.50756	21.72319	22.21269
2-Fluorobiphenyl	87.63391	90.70049	85.82072	82.67798	84.72065	82.6298
2-Chloronaphthalene	67.9897	68.52434	67.42987	64.43738	66.26847	64.89977
2-Nitroaniline	19.14333	17.99026	18.57779	17.79859	18.53845	18.79138
Dimethyl phthalate	71.88927	72.67612	70.44784	67.91918	70.41869	69.77248
Acenaphthylene	102.9577	103.1017	101.1966	98.61045	102.6135	103.9013
2,6-Dinitrotoluene	15.54795	15.85086	16.43518	15.03796	16.55044	16.82931
3-Nitroaniline	31.96364	32.49707	32.90822	33.36892	34.2932	35.05325
Acenaphthene	117.3621	113.9156	113.6715	112.2073	112.4032	109.6263
2,4-Dinitrophenol	0	0	0	0	0.4382209	2.615164
Dibenzofuran	175.4851	167.9727	167.0562	161.1588	168.8033	163.7473
4-Nitrophenol	15.5781	16.52071	15.44494	14.53999	16.38981	18.13285
2,4-Dinitrotoluene	32.69076	33.9626	33.77012	36.37357	38.78168	40.26103
Fluorene	144.3035	142.2024	137.2454	134.2593	136.8742	131.7661
Diethyl phthalate	131.3591	132.9675	129.6539	122.8249	125.509	121.3063
4-Chlorophenyl phenyl ether	63.80892	60.77133	58.91583	58.45953	59.86019	58.93567
4-Nitroaniline	33.10082	32.19141	33.24348	32.58114	33.87167	35.14057
4,6-Dinitro-2-methylphenol	0	0	2.151352	2.952518	5.055348	8.839747
N-Nitrosodiphenylamine	117.4974	116.2835	114.8374	110.232	116.2313	112.0472
2,4,6-Tribromophenol	14.90594	14.57783	14.68892	14.28264	15.55333	15.85848
4-Bromophenyl phenyl ether	34.61847	32.33587	33.05888	30.69775	33.26483	32.31727
Hexachlorobenzene	36.33059	34.17197	33.55159	33.80584	33.94763	33.29075
Pentachlorophenol	3.44536	3.379093	4.605386	6.651441	9.796302	12.82346
Phenanthrene	122.8638	121.0897	116.9613	114.3501	114.1071	113.6789
Anthracene	119.226	114.547	116.432	110.3725	115.0386	118.6128

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L335005	Instrument:	ChemStation04
		Calibration Date:	9/1/2023 5:06:22PM

COMPOUND	CAL 01	CAL 02	CAL 03	CAL 04	CAL 05	CAL 06
Carbazole	110.1763	109.9377	109.168	104.6474	106.3836	111.4583
Di-n-butyl phthalate	138.0576	135.6752	136.9868	134.1325	132.1284	136.6377
Fluoranthene	122.3236	112.7381	116.2553	111.2281	113.5001	116.6683
Pyrene	122.8612	117.9639	117.7913	114.074	115.5102	118.1018
Terphenyl-d14	85.46168	84.55483	87.08215	82.12799	84.44242	83.18872
Butyl benzyl phthalate	57.55985	54.45592	54.22052	52.78501	53.66572	56.07375
Benzo(a)anthracene	103.0031	94.14839	96.66107	93.70162	92.65371	95.32673
Chrysene	134.0349	132.1764	132.8747	127.4868	135.1184	131.2002
3,3'-Dichlorobenzidine	42.09767	44.43963	46.16533	44.91802	48.22064	47.52024
Bis(2-Ethylhexyl)phthalate	108.2472	106.4758	105.0375	102.2759	108.4027	111.032
Di-n-octyl phthalate	166.9998	171.2121	170.1107	167.5236	175.5157	179.6173
Benzo(b)fluoranthene	114.41	115.5919	116.3251	113.6773	117.0638	119.6269
Benzo(k)fluoranthene	121.6046	122.4983	119.4245	118.555	123.6067	119.6799
Benzo(a)pyrene	107.435	110.6546	107.7883	107.0255	110.9066	116.0541
Indeno(1,2,3-cd)pyrene	72.5048	78.95778	74.57942	72.93523	79.24343	82.45942
Dibenzo(a,h)anthracene	78.30298	76.62871	78.46153	80.88106	85.17804	87.54535
Benzo(g,h,i)perylene	83.3511	83.27797	84.03631	82.36786	85.3977	84.88311

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L335005	Instrument:	ChemStation04
		Calibration Date:	9/1/2023 5:06:22PM

COMPOUND	CAL 07	CAL 08	CAL 09	CAL 10	CAL 11	CAL 12
Pyridine	162.065	158.9114	172.4962			
N-Nitrosodimethylamine	83.63594	83.60844	90.71597			
2-Fluorophenol	155.3092	151.9725	162.5886			
Phenol-d6	210.6671	174.5874	191.6383			
Phenol	161.6031	156.9694	170.8754			
Aniline	217.5482	211.9459	224.3247			
2-Chlorophenol	151.1701	147.5278	157.6517			
Bis(2-Chloroethyl)ether	143.139	134.8252	144.1291			
1,3-Dichlorobenzene	151.2894	151.0813	159.8265			
1,4-Dichlorobenzene	147.4499	147.0841	153.8245			
Benzyl alcohol	95.08104	76.936	105.2154			
1,2-Dichlorobenzene	152.5428	146.2682	158.8515			
2-Methylphenol	147.7507	135.0298	145.1175			
2,2'-Oxybis(1-Chloropropane)	168.2084	159.2678	172.5403			
Hexachloroethane	61.65564	61.18284	65.1577			
3/4-Methylphenol (m-Cresol/p-Cresol)	159.5828	153.876	165.2054			
N-Nitroso-di-n-propylamine	97.88695	94.79548	104.2637			
Nitrobenzene-d5	160.9615	157.4355	165.791			
Nitrobenzene	152.9396	148.1327	159.7381			
Isophorone	255.4718	245.899	267.7177			
2-Nitrophenol	77.41796	78.69646	83.26113			
2,4-Dimethylphenol	124.0095	121.9144	137.2005			
Benzoic Acid	75.44569	84.70554	88.9594			
bis(2-Chloroethoxy)methane	171.7748	162.5152	181.1684			
2,4-Dichlorophenol	118.4591	115.3222	124.3046			
1,2,4-Trichlorobenzene	122.1008	118.1774	124.7535			
Naphthalene	110.8953	109.2577	117.0234			
4-Chloroaniline	46.65746	45.62258	50.47693			

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L335005	Instrument:	ChemStation04
		Calibration Date:	9/1/2023 5:06:22PM

COMPOUND	CAL 07	CAL 08	CAL 09	CAL 10	CAL 11	CAL 12
Hexachlorobutadiene	17.39509	16.63761	18.273			
4-Chloro-3-methylphenol	31.71494	31.63943	33.62643			
2-Methylnaphthalene	80.11295	77.40049	84.38303			
Hexachlorocyclopentadiene	9.65107	11.56016	11.85289			
2,4,6-Trichlorophenol	19.85083	19.83031	21.27166			
2,4,5-Trichlorophenol	22.58505	22.74934	24.26212			
2-Fluorobiphenyl	84.22612	81.40325	86.97278			
2-Chloronaphthalene	66.49265	65.46676	70.42347			
2-Nitroaniline	19.25217	18.80129	20.1657			
Dimethyl phthalate	70.52552	66.82543	71.83253			
Acenaphthylene	104.3839	99.79376	107.9685			
2,6-Dinitrotoluene	17.50051	16.97356	17.93758			
3-Nitroaniline	34.82893	35.21611	37.5885			
Acenaphthene	111.1278	108.3488	114.9507			
2,4-Dinitrophenol	4.62157	8.095368	8.532283			
Dibenzofuran	167.3559	168.0729	175.6067			
4-Nitrophenol	19.85629	20.68177	22.14672			
2,4-Dinitrotoluene	40.87589	40.73666	43.71425			
Fluorene	134.1015	129.2215	136.0274			
Diethyl phthalate	123.552	118.8012	125.7823			
4-Chlorophenyl phenyl ether	58.79245	57.88862	61.1416			
4-Nitroaniline	34.47636	35.86123	38.00721			
4,6-Dinitro-2-methylphenol	11.75587	14.82538	15.88252			
N-Nitrosodiphenylamine	112.564	114.8041	117.3488			
2,4,6-Tribromophenol	15.92004	16.33212	16.99899			
4-Bromophenyl phenyl ether	32.65285	32.02548	33.83212			
Hexachlorobenzene	33.69791	33.43877	35.03417			
Pentachlorophenol	15.63627	18.47956	19.6798			

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L335005	Instrument:	ChemStation04
		Calibration Date:	9/1/2023 5:06:22PM

COMPOUND	CAL 07	CAL 08	CAL 09	CAL 10	CAL 11	CAL 12
Phenanthrene	116.7145	116.3322	122.1599			
Anthracene	118.2199	114.9339	123.6253			
Carbazole	112.2479	110.1848	115.5853			
Di-n-butyl phthalate	138.8479	138.3394	146.3781			
Fluoranthene	118.8884	115.6598	122.7443			
Pyrene	116.6013	115.5192	123.4481			
Terphenyl-d14	85.27666	82.75974	89.37033			
Butyl benzyl phthalate	56.7955	56.99739	59.92086			
Benzo(a)anthracene	97.07474	97.9217	103.6562			
Chrysene	132.6021	132.1099	141.4275			
3,3'-Dichlorobenzidine	47.86863	48.14887	50.82362			
Bis(2-Ethylhexyl)phthalate	110.609	110.0644	119.2855			
Di-n-octyl phthalate	182.9574	187.6908	195.4371			
Benzo(b)fluoranthene	117.8244	121.3755	127.6883			
Benzo(k)fluoranthene	123.9319	125.5169	132.9499			
Benzo(a)pyrene	114.6064	115.2911	124.2645			
Indeno(1,2,3-cd)pyrene	84.52685	89.06212	91.58964			
Dibenzo(a,h)anthracene	90.27709	90.83853	94.36905			
Benzo(g,h,i)perylene	89.03344	88.27014	92.12526			

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L335005	Instrument:	ChemStation04
		Calibration Date:	9/1/2023 5:06:22PM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Pyridine	162.3604	3.953662			20	
N-Nitrosodimethylamine	85.04263	3.301453			20	
2-Fluorophenol	151.0814	3.852299			20	
Phenol-d6	196.701	6.391951			20	
Phenol	150.3511	7.879619	0.997273		0.99	
Aniline	202.5663	7.120501			20	
2-Chlorophenol	149.1501	2.883177			20	
Bis(2-Chloroethyl)ether	141.6409	2.598651			20	
1,3-Dichlorobenzene	153.8619	2.2677			20	
1,4-Dichlorobenzene	148.58	2.163519			20	
Benzyl alcohol	90.76806	18.9544		0.9850678	0.99	*
1,2-Dichlorobenzene	150.2996	3.000108			20	
2-Methylphenol	134.146	5.834535			20	
2,2'-Oxybis(1-Chloropropane)	166.4064	2.994482			20	
Hexachloroethane	60.02782	4.673591			20	
3/4-Methylphenol (m-Cresol/p-Cresol)	149.8869	6.346458			20	
N-Nitroso-di-n-propylamine	98.11597	3.116141		0.9985557	0.99	
Nitrobenzene-d5	159.094	2.30659			20	
Nitrobenzene	152.9259	3.782085			20	
Isophorone	253.2705	2.580761			20	
2-Nitrophenol	74.91489	6.929023	0.9982799		0.99	
2,4-Dimethylphenol	120.1504	7.395313			20	
Benzoic Acid	64.0328	25.16208		0.9986987	0.99	
bis(2-Chloroethoxy)methane	168.8533	3.501464	0.9957728		0.99	
2,4-Dichlorophenol	115.0076	4.133969			20	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L335005	Instrument:	ChemStation04
		Calibration Date:	9/1/2023 5:06:22PM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
1,2,4-Trichlorobenzene	122.7136	2.756758			20	
Naphthalene	111.7587	2.790237		0.9993588	0.99	
4-Chloroaniline	43.46201	9.50945			20	
Hexachlorobutadiene	17.35661	3.108283			20	
4-Chloro-3-methylphenol	31.11442	4.055711			20	
2-Methylnaphthalene	76.90984	4.709608			20	
Hexachlorocyclopentadiene	7.514833	41.10601		0.9975116	0.99	
2,4,6-Trichlorophenol	19.63736	3.667787		0.9995169	0.99	
2,4,5-Trichlorophenol	22.14268	5.028072	0.9977987		0.99	
2-Fluorobiphenyl	85.19841	3.428671			20	
2-Chloronaphthalene	66.88138	2.856679			20	
2-Nitroaniline	18.78433	3.746228		0.9993012	0.99	
Dimethyl phthalate	70.25634	2.691675			20	
Acenaphthylene	102.7253	2.659165			20	
2,6-Dinitrotoluene	16.51815	5.6099		0.999371	0.99	
3-Nitroaniline	34.19087	5.055961	0.9978833		0.99	
Acenaphthene	112.6237	2.438771			20	
2,4-Dinitrophenol	2.70029	131.6503		0.9593347	0.99	*
Dibenzofuran	168.3621	2.8139			20	
4-Nitrophenol	17.69902	14.97284		0.9996195	0.99	
2,4-Dinitrotoluene	37.9074	10.17791		0.9994883	0.99	
Fluorene	136.2224	3.480176			20	
Diethyl phthalate	125.7507	3.774949			20	
4-Chlorophenyl phenyl ether	59.84157	3.058416			20	
4-Nitroaniline	34.27488	5.365026	0.9974339		0.99	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L335005	Instrument:	ChemStation04
		Calibration Date:	9/1/2023 5:06:22PM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
4,6-Dinitro-2-methylphenol	6.829193	90.79104	0.9717228		0.99	*
N-Nitrosodiphenylamine	114.6495	2.207946			20	
2,4,6-Tribromophenol	15.45759	5.864506	0.9987448		0.99	
4-Bromophenyl phenyl ether	32.75595	3.434869			20	
Hexachlorobenzene	34.14102	2.836503			20	
Pentachlorophenol	10.49963	61.19311		0.9965926	0.99	
Phenanthrene	117.5842	3.030953			20	
Anthracene	116.7787	3.187946			20	
Carbazole	109.9766	2.890854			20	
Di-n-butyl phthalate	137.4648	2.888963			20	
Fluoranthene	116.6673	3.456509			20	
Pyrene	117.9857	2.731507			20	
Terphenyl-d14	84.91828	2.656838		0.9990608	0.99	
Butyl benzyl phthalate	55.8305	4.030874	0.9986558		0.99	
Benzo(a)anthracene	97.12747	4.018448		0.9998182	0.99	
Chrysene	133.2257	2.801013			20	
3,3'-Dichlorobenzidine	46.68918	5.523528	0.9985524		0.99	
Bis(2-Ethylhexyl)phthalate	109.0478	4.371921	0.9972419		0.99	
Di-n-octyl phthalate	177.4516	5.520393		0.9999658	0.99	
Benzo(b)fluoranthene	118.1759	3.648347		0.999728	0.99	
Benzo(k)fluoranthene	123.0853	3.544516		0.9997794	0.99	
Benzo(a)pyrene	112.6696	4.929434		0.9993429	0.99	
Indeno(1,2,3-cd)pyrene	80.65096	8.503793		0.999906	0.99	
Dibenzo(a,h)anthracene	84.72026	7.582885		0.9999165	0.99	
Benzo(g,h,i)perylene	85.86032	3.791564		0.9997764	0.99	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
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AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

INITIAL CALIBRATION STANDARDS

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S335054	Instrument:	ChemStation04
Calibration:	L335005		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
2304177	8270 NPW CAL B1 1ppm	S335054-CAL1	SEQ-CAL1.D	08/31/23 12:55
2304178	8270 NPW CAL B2 2ppm	S335054-CAL2	SEQ-CAL2.D	08/31/23 13:38
2304180	8270 NPW CAL B3 3ppm	S335054-CAL3	SEQ-CAL3.D	08/31/23 14:20
2304181	8270 NPW CAL B4 5ppm	S335054-CAL4	SEQ-CAL4.D	08/31/23 15:03
2304183	8270 NPW CAL B5 10ppm	S335054-CAL5	SEQ-CAL5.D	08/31/23 15:46
2304184	8270 NPW CAL B6 20ppm	S335054-CAL6	SEQ-CAL6.D	08/31/23 16:28
2304185	8270 NPW CAL B7 30ppm	S335054-CAL7	SEQ-CAL7.D	08/31/23 17:11
2304186	8270 NPW CAL B8 40ppm	S335054-CAL8	SEQ-CAL8.D	08/31/23 17:53
2304187	8270 NPW CAL B9 50ppm	S335054-CAL9	SEQ-CAL9.D	08/31/23 18:36

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Instrument ID:	ChemStation04	Calibration:	L335005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/01/23 17:06
Sequence:	S341002	Injection Date:	10/11/23
Lab Sample ID:	S341002-CCV1	Injection Time:	12:07

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Pyridine	A	20.0	19.3	162.3604	172.0661		6.0	20	
N-Nitrosodimethylamine	A	20.0	18.8	85.04263	90.22477		6.1	20	
Phenol	L	20.0	20.1	150.3511	198.838		0.6	20	
Aniline	A	20.0	21.0	202.5663	217.7572		7.5	20	
2-Chlorophenol	A	20.0	19.2	149.1501	140.6829		-5.7	20	
Bis(2-Chloroethyl)ether	A	20.0	18.3	141.6409	140.9399		-0.5	20	
1,3-Dichlorobenzene	A	20.0	19.0	153.8619	145.2233		-5.6	20	
1,4-Dichlorobenzene	A	20.0	19.4	148.58	140.6305		-5.4	20	
Benzyl alcohol	Q	20.0	20.8	90.76806	91.0184		4.2	20	
1,2-Dichlorobenzene	A	20.0	19.8	150.2996	142.2125		-5.4	20	
2-Methylphenol	A	20.0	20.8	134.146	128.9613		-3.9	20	
2,2'-Oxybis(1-Chloropropane)	A	20.0	19.5	166.4064	201.6906		21.2	20	*
Hexachloroethane	A	20.0	18.5	60.02782	59.94979		-0.1	20	
3/4-Methylphenol (m-Cresol/p-Cresol)	A	20.0	21.5	149.8869	141.4599		-5.6	20	
N-Nitroso-di-n-propylamine	Q	20.0	23.5	98.11597	101.1759		17.5	20	
Nitrobenzene	A	20.0	16.4	152.9259	130.3512		-14.8	20	
Isophorone	A	20.0	25.9	253.2705	251.4028		-0.7	20	
2-Nitrophenol	L	20.0	14.5	74.91489	42.11046		-27.4	20	*
2,4-Dimethylphenol	A	20.0	22.5	120.1504	116.6144		-2.9	20	
Benzoic Acid	Q	20.0	15.9	64.0328	27.45292		-20.6	20	*
bis(2-Chloroethoxy)methane	L	20.0	24.8	168.8533	169.6906		24.2	20	*
2,4-Dichlorophenol	A	20.0	22.8	115.0076	100.9626		-12.2	20	
1,2,4-Trichlorobenzene	A	20.0	22.4	122.7136	109.6653		-10.6	20	

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Instrument ID:	ChemStation04	Calibration:	L335005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/01/23 17:06
Sequence:	S341002	Injection Date:	10/11/23
Lab Sample ID:	S341002-CCV1	Injection Time:	12:07

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Naphthalene	Q	20.0	19.7	111.7587	107.2593		-1.4	20	
4-Chloroaniline	A	20.0	22.3	43.46201	46.22408		6.4	20	
Hexachlorobutadiene	A	20.0	18.7	17.35661	15.7229		-9.4	20	
4-Chloro-3-methylphenol	A	20.0	23.2	31.11442	30.19554		-3.0	20	
2-Methylnaphthalene	A	20.0	22.2	76.90984	67.33777		-12.4	20	
Hexachlorocyclopentadiene	Q	20.0	16.9	7.514833	11.4437		-15.6	20	
2,4,6-Trichlorophenol	Q	20.0	22.6	19.63736	16.58155		13.0	20	
2,4,5-Trichlorophenol	L	20.0	24.0	22.14268	18.05886		19.8	20	
2-Chloronaphthalene	A	20.0	24.4	66.88138	61.29689		-8.3	20	
2-Nitroaniline	Q	20.0	21.1	18.78433	14.11801		5.4	20	
Dimethyl phthalate	A	20.0	31.7	70.25634	63.53948		-9.6	20	
Acenaphthylene	A	20.0	26.4	102.7253	91.47413		-11.0	20	
2,6-Dinitrotoluene	Q	20.0	25.2	16.51815	11.39414		26.0	20	*
3-Nitroaniline	L	20.0	23.2	34.19087	32.5894		15.9	20	
Acenaphthene	A	20.0	19.6	112.6237	110.7564		-1.7	20	
2,4-Dinitrophenol	Q	20.0	17.6	2.70029	4.573099		-11.9	20	
Dibenzofuran	A	20.0	20.6	168.3621	158.964		-5.6	20	
4-Nitrophenol	Q	20.0	24.6	17.69902	22.27473		23.0	20	*
2,4-Dinitrotoluene	Q	20.0	23.6	37.9074	27.76208		18.0	20	
Fluorene	A	20.0	22.7	136.2224	130.544		-4.2	20	
Diethyl phthalate	A	20.0	25.9	125.7507	123.3181		-1.9	20	
4-Chlorophenyl phenyl ether	A	20.0	22.7	59.84157	55.81901		-6.7	20	
4-Nitroaniline	L	20.0	31.3	34.27488	32.14733		56.6	20	*
4,6-Dinitro-2-methylphenol	L	20.0	20.0	6.829193	6.199976		0.0	20	

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Instrument ID:	ChemStation04	Calibration:	L335005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/01/23 17:06
Sequence:	S341002	Injection Date:	10/11/23
Lab Sample ID:	S341002-CCV1	Injection Time:	12:07

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
N-Nitrosodiphenylamine	A	20.0	24.4	114.6495	106.9688		-6.7	20	
4-Bromophenyl phenyl ether	A	20.0	25.6	32.75595	29.99024		-8.4	20	
Hexachlorobenzene	A	20.0	26.4	34.14102	30.15924		-11.7	20	
Pentachlorophenol	Q	20.0	27.9	10.49963	15.13003		39.6	20	*
Phenanthrene	A	20.0	19.4	117.5842	112.8237		-4.0	20	
Anthracene	A	20.0	19.7	116.7787	113.3561		-2.9	20	
Carbazole	A	20.0	23.2	109.9766	110.6994		0.7	20	
Di-n-butyl phthalate	A	20.0	24.2	137.4648	132.6946		-3.5	20	
Fluoranthene	A	20.0	26.3	116.6673	113.7632		-2.5	20	
Pyrene	A	20.0	28.1	117.9857	119.4724		1.3	20	
Butyl benzyl phthalate	L	20.0	35.0	55.8305	53.34984		75.2	20	*
Benzo(a)anthracene	Q	20.0	38.4	97.12747	98.73669		92.2	20	*
Chrysene	A	20.0	20.0	133.2257	129.9021		-2.5	20	
3,3'-Dichlorobenzidine	L	20.0	24.0	46.68918	45.2874		20.2	20	*
Bis(2-Ethylhexyl)phthalate	L	20.0	18.8	109.0478	90.52127		-5.8	20	
Di-n-octyl phthalate	Q	20.0	18.8	177.4516	124.1818		-6.0	20	
Benzo(b)fluoranthene	Q	20.0	20.8	118.1759	107.6173		4.0	20	
Benzo(k)fluoranthene	Q	20.0	24.8	123.0853	133.9146		24.0	20	*
Benzo(a)pyrene	Q	20.0	20.8	112.6696	104.0927		4.0	20	
Indeno(1,2,3-cd)pyrene	Q	20.0	13.2	80.65096	69.17034		-34.0	20	*
Dibenzo(a,h)anthracene	Q	20.0	13.6	84.72026	78.20506		-32.2	20	*
Benzo(g,h,i)perylene	Q	20.0	14.2	85.86032	89.58341		-29.2	20	*
2-Fluorophenol	A	20.0	17.8	151.0814	150.5859		-0.3	20	
Phenol-d6	A	20.0	19.8	196.701	190.9382		-2.9	20	

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NJDEP# NY012
PADEP# 68-2943

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA 8270 E

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Instrument ID:	ChemStation04	Calibration:	L335005
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/01/23 17:06
Sequence:	S341002	Injection Date:	10/11/23
Lab Sample ID:	S341002-CCV1	Injection Time:	12:07

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Nitrobenzene-d5	A	20.0	18.1	159.094	132.3604		-16.8	20	
2-Fluorobiphenyl	A	20.0	24.4	85.19841	78.38616		-8.0	20	
2,4,6-Tribromophenol	L	20.0	23.0	15.45759	11.96912		15.2	20	
Terphenyl-d14	Q	20.0	30.1	84.91828	84.39595		50.6	20	*

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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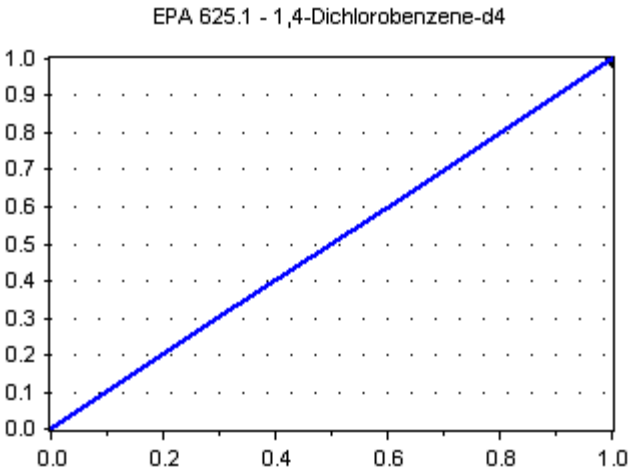
Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

1,4-Dichlorobenzene-d4

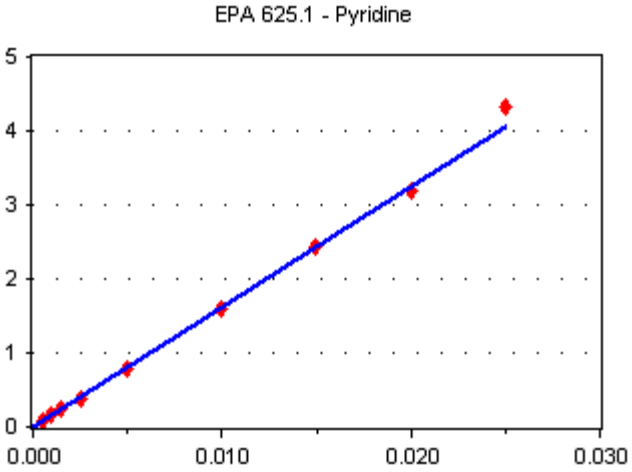


Average RF

RF RSD: 0

[Conc] = 1 * [Response]

Pyridine

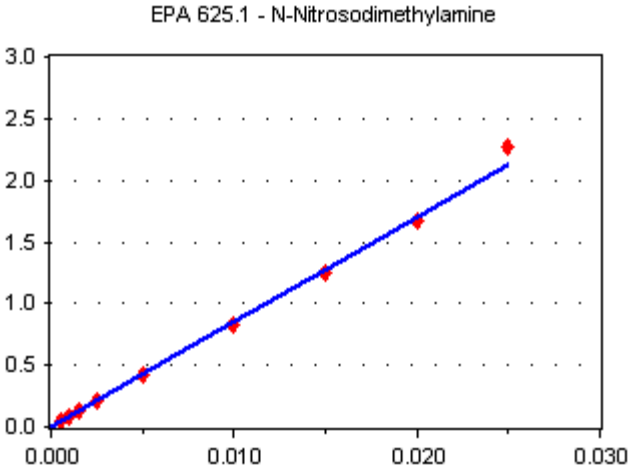


Average RF

RF RSD: 3.953662

[Conc] = 162.3604 * [Response]

N-Nitrosodimethylamine



Average RF

RF RSD: 3.301453

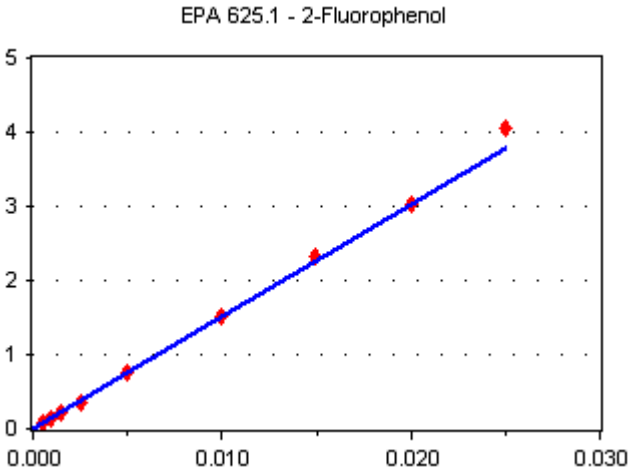
[Conc] = 85.04263 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

2-Fluorophenol

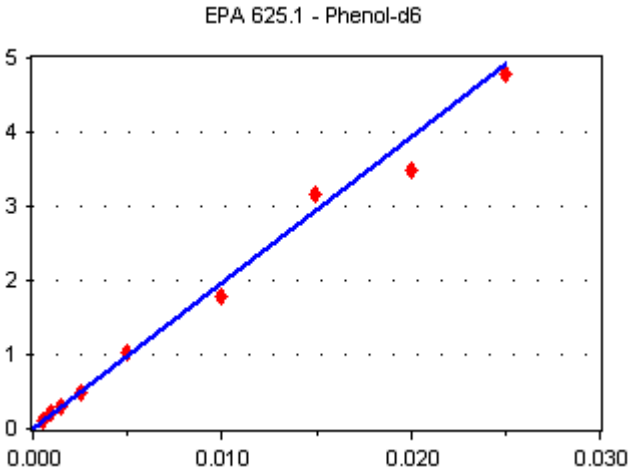


Average RF

RF RSD: 3.852299

[Conc] = 151.0814 * [Response]

Phenol-d6

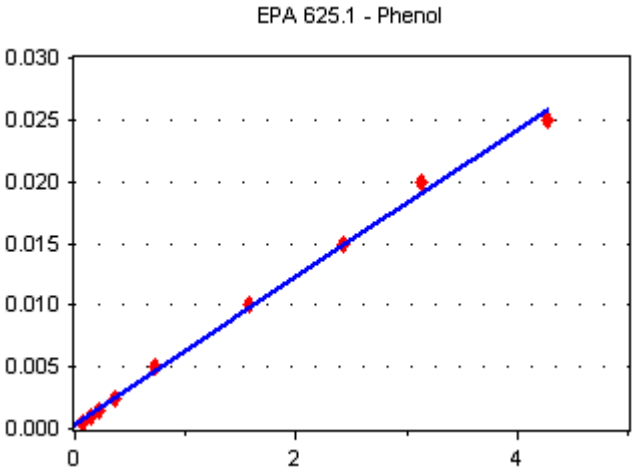


Average RF

RF RSD: 6.391951

[Conc] = 196.701 * [Response]

Phenol



Linear Regression

r2: 0.997273

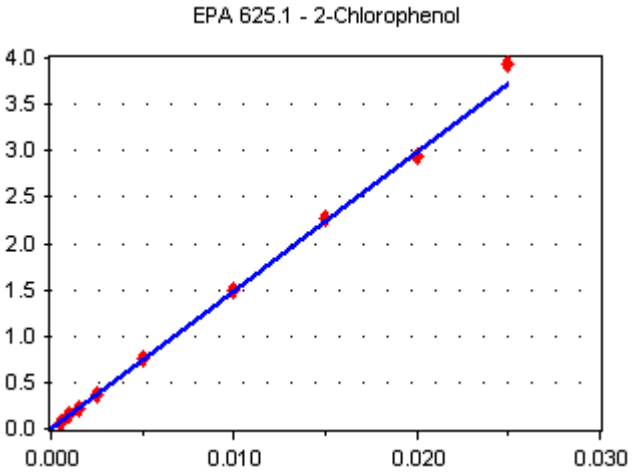
[Conc] = 5.959897E-03 * [Response] + 3.881248E-04

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

2-Chlorophenol

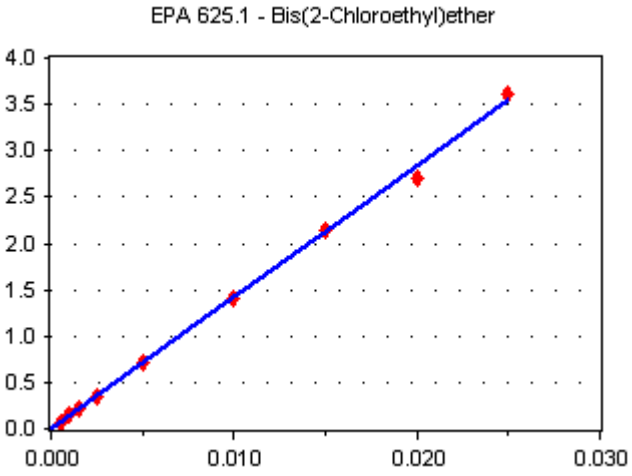


Average RF

RF RSD: 2.883177

[Conc] = 149.1501 * [Response]

Bis(2-Chloroethyl)ether

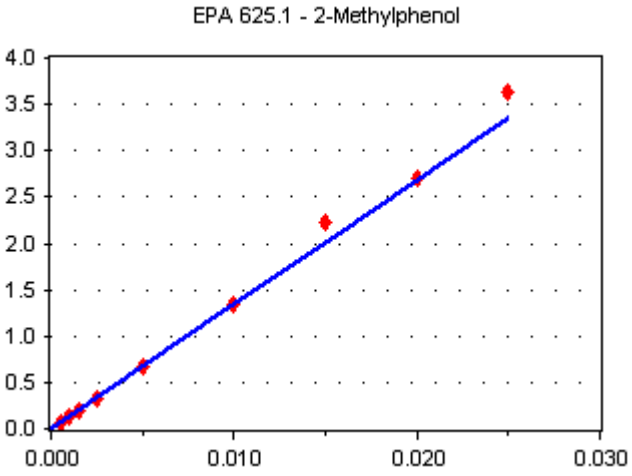


Average RF

RF RSD: 2.598651

[Conc] = 141.6409 * [Response]

2-Methylphenol



Average RF

RF RSD: 5.834535

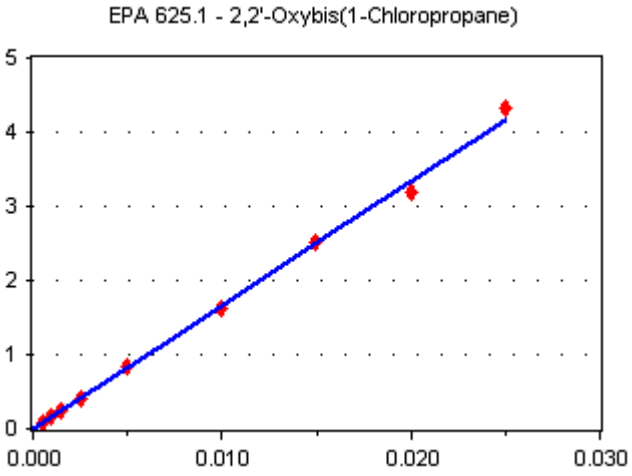
[Conc] = 134.146 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

2,2'-Oxybis(1-Chloropropane)

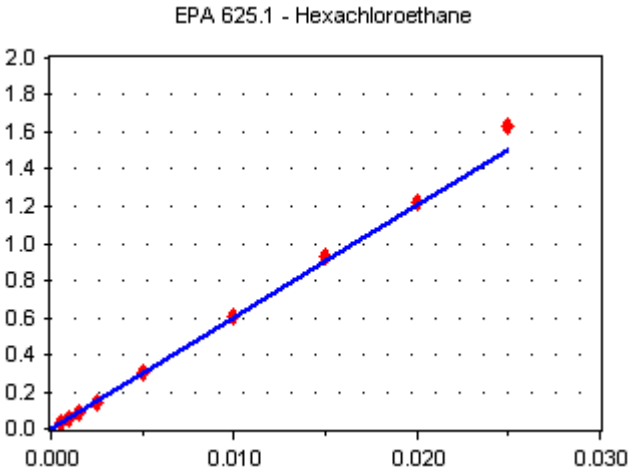


Average RF

RF RSD: 2.994482

[Conc] = 166.4064 * [Response]

Hexachloroethane

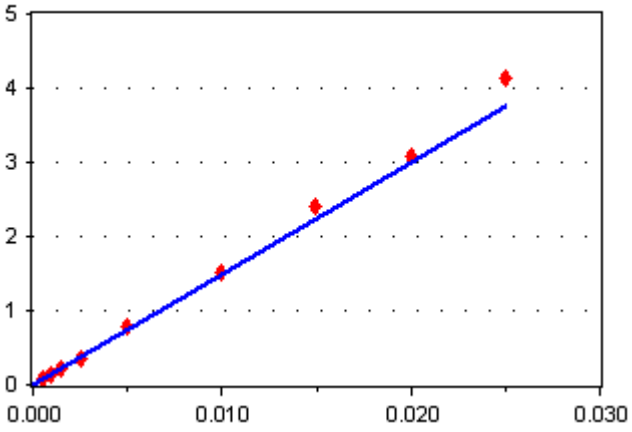


Average RF

RF RSD: 4.673591

[Conc] = 60.02782 * [Response]

3/4-Methylphenol (m-Cresol/p-Cresol



Average RF

RF RSD: 6.346474

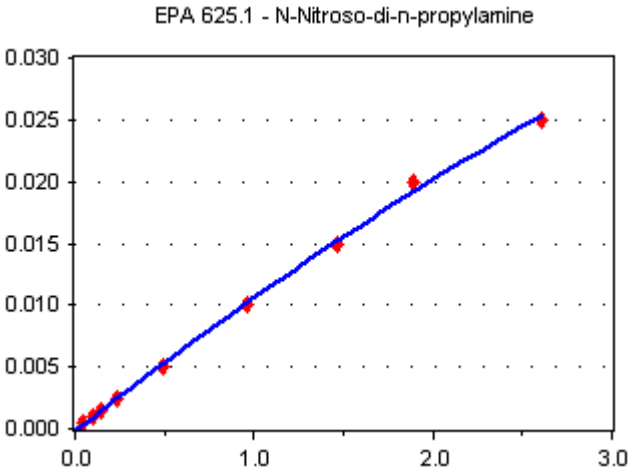
[Conc] = 149.8868 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

N-Nitroso-di-n-propylamine

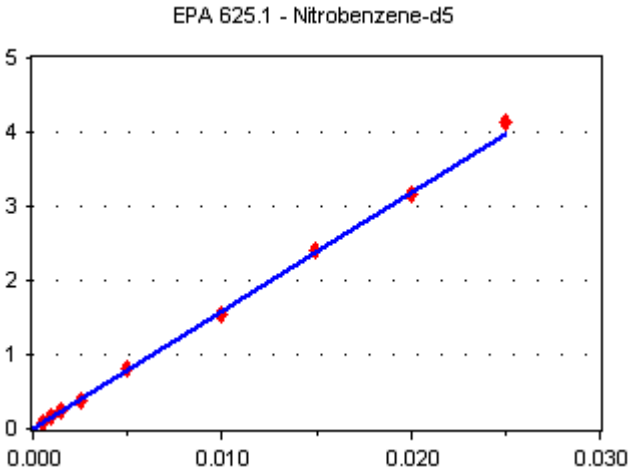


Quadratic Regression

Not Specified

Not Specified

Nitrobenzene-d5

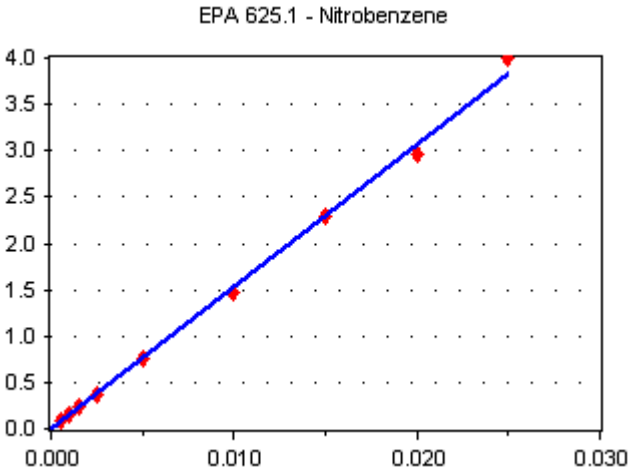


Average RF

RF RSD: 2.30659

[Conc] = 159.094 * [Response]

Nitrobenzene



Average RF

RF RSD: 3.782085

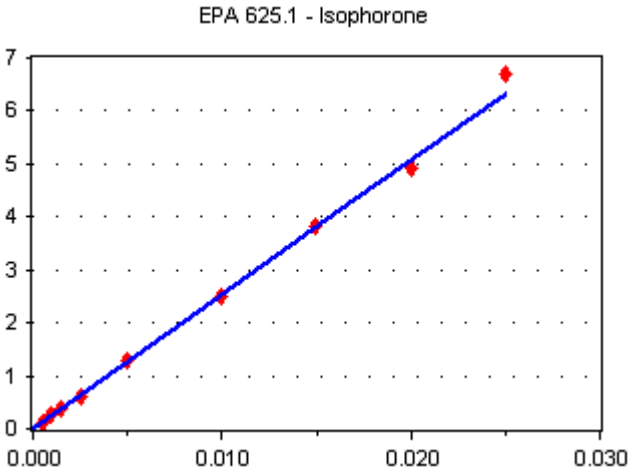
[Conc] = 152.9259 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

Isophorone

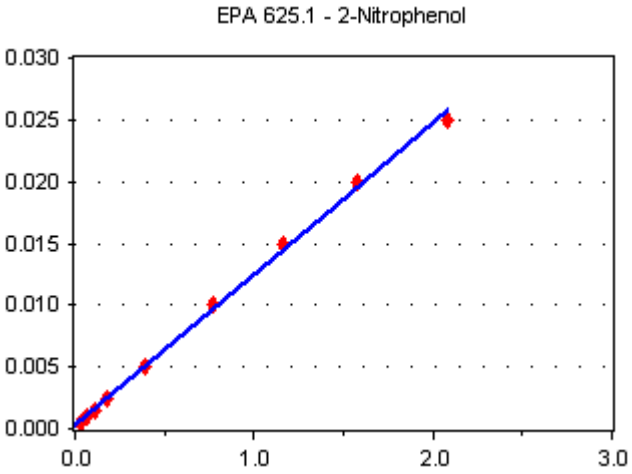


Average RF

RF RSD: 2.580761

[Conc] = 253.2705 * [Response]

2-Nitrophenol

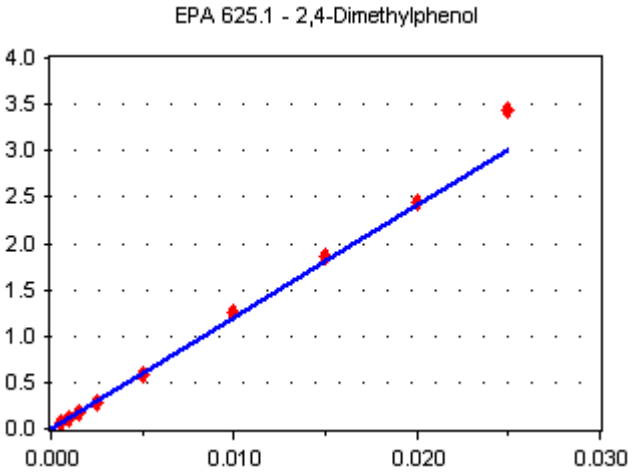


Linear Regression

r2: 0.9982799

[Conc] = 1.220544E-02 * [Response] + 3.061564E-04

2,4-Dimethylphenol



Average RF

RF RSD: 7.395313

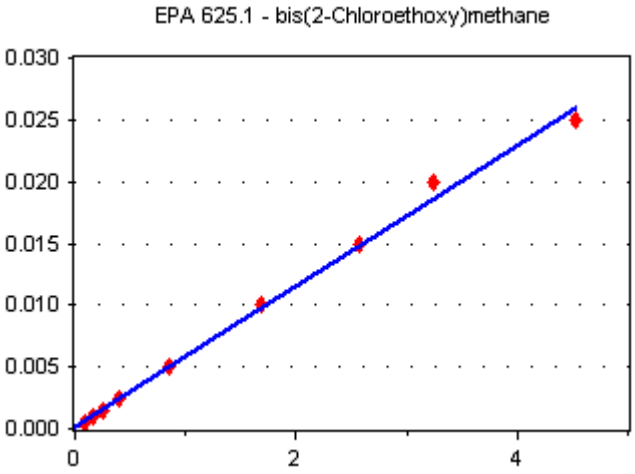
[Conc] = 120.1504 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

bis(2-Chloroethoxy)methane

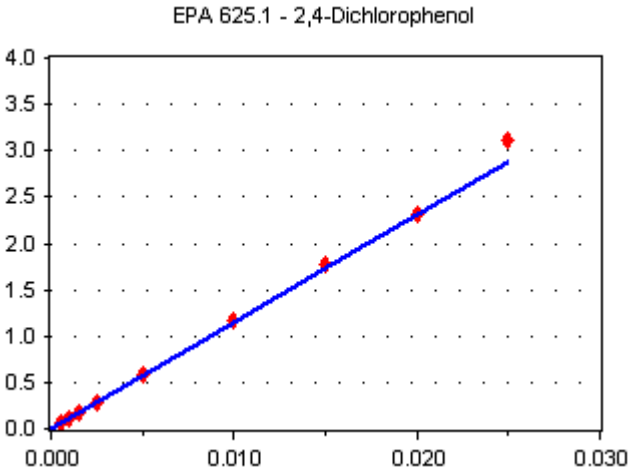


Linear Regression

r2: 0.9957728

[Conc] = 5.699042E-03 * [Response] + 2.125484E-04

2,4-Dichlorophenol

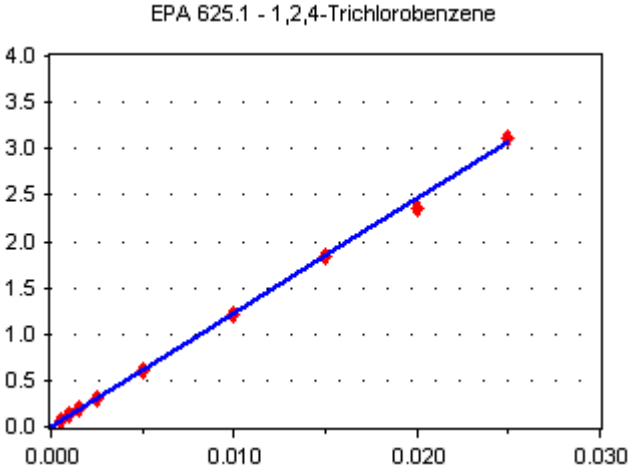


Average RF

RF RSD: 4.133969

[Conc] = 115.0076 * [Response]

1,2,4-Trichlorobenzene



Average RF

RF RSD: 2.756758

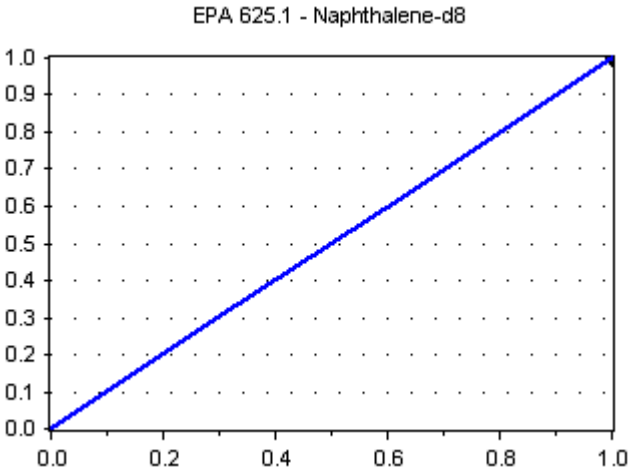
[Conc] = 122.7136 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

Naphthalene-d8

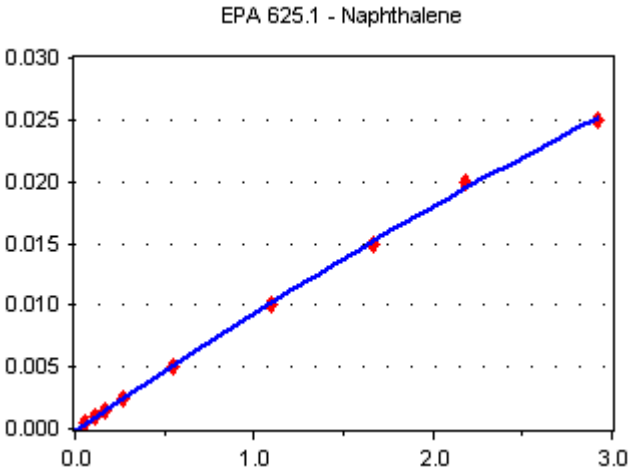


Average RF

RF RSD: 0

[Conc] = 1 * [Response]

Naphthalene

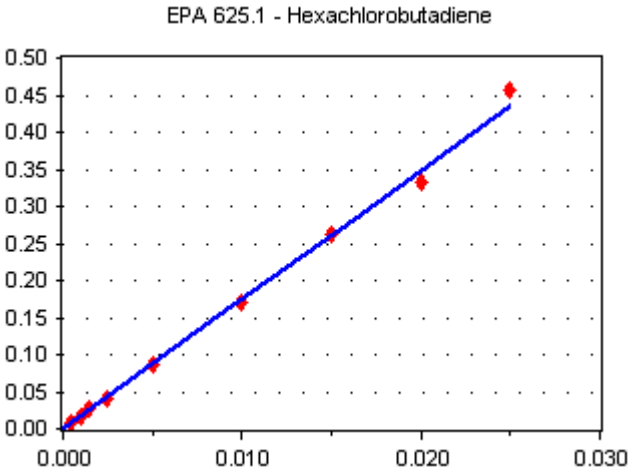


Quadratic Regression

Not Specified

Not Specified

Hexachlorobutadiene



Average RF

RF RSD: 3.108283

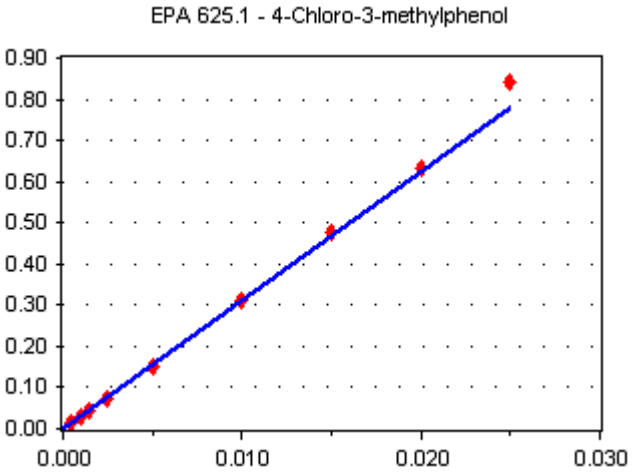
[Conc] = 17.35661 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

4-Chloro-3-methylphenol

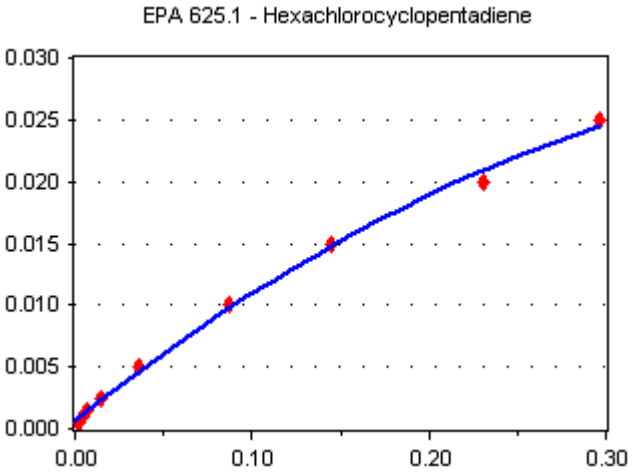


Average RF

RF RSD: 4.055711

[Conc] = 31.11442 * [Response]

Hexachlorocyclopentadiene

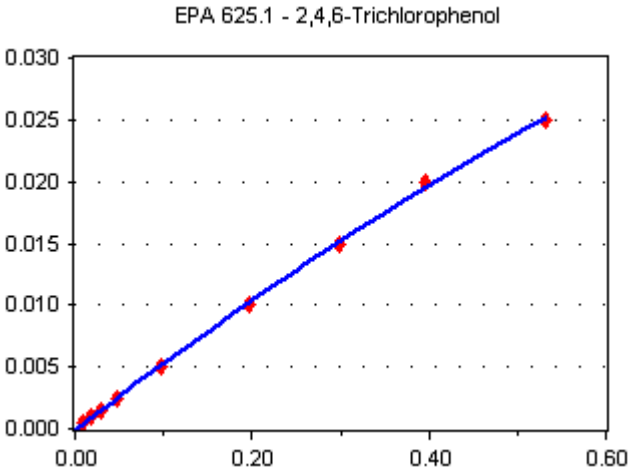


Quadratic Regression

Not Specified

Not Specified

2,4,6-Trichlorophenol



Quadratic Regression

Not Specified

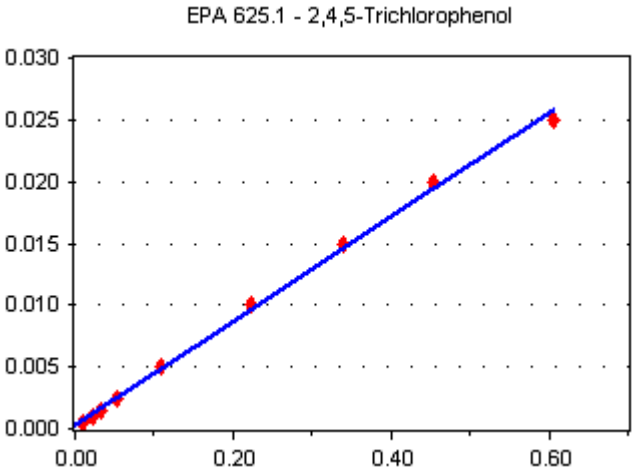
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

2,4,5-Trichlorophenol

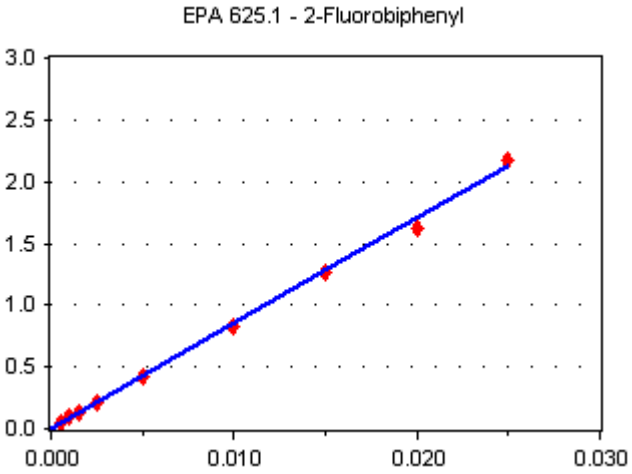


Linear Regression

r2: 0.9977987

[Conc] = 4.203946E-02 * [Response] + 3.055677E-04

2-Fluorobiphenyl

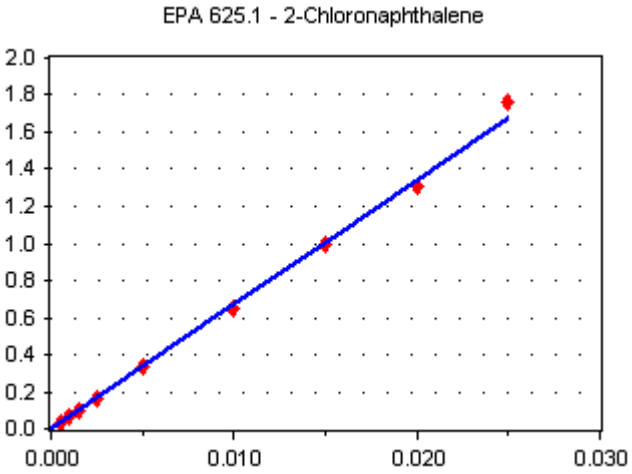


Average RF

RF RSD: 3.428671

[Conc] = 85.19841 * [Response]

2-Chloronaphthalene



Average RF

RF RSD: 2.856679

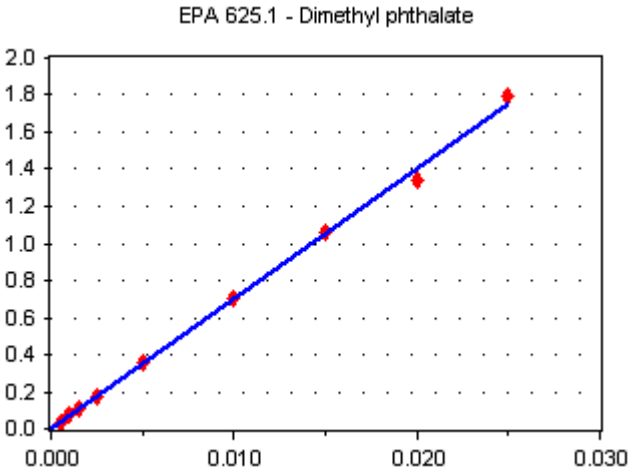
[Conc] = 66.88138 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

Dimethyl phthalate

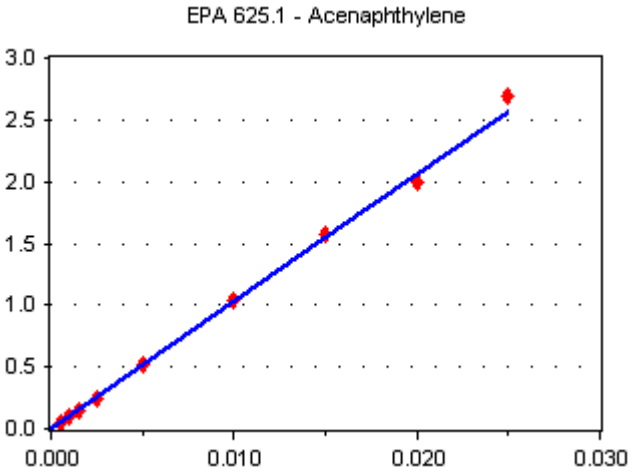


Average RF

RF RSD: 2.691675

[Conc] = 70.25634 * [Response]

Acenaphthylene

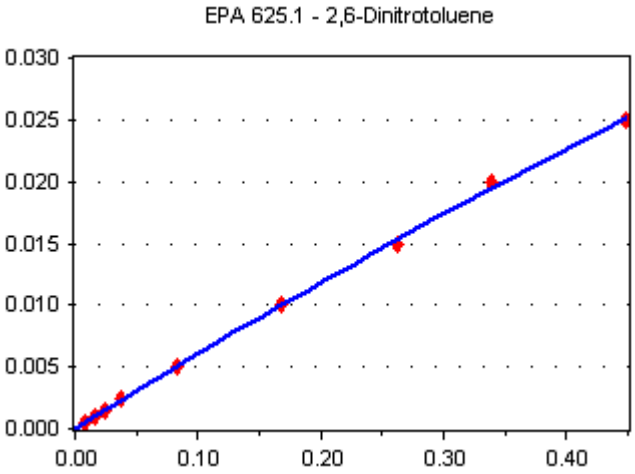


Average RF

RF RSD: 2.659165

[Conc] = 102.7253 * [Response]

2,6-Dinitrotoluene



Quadratic Regression

Not Specified

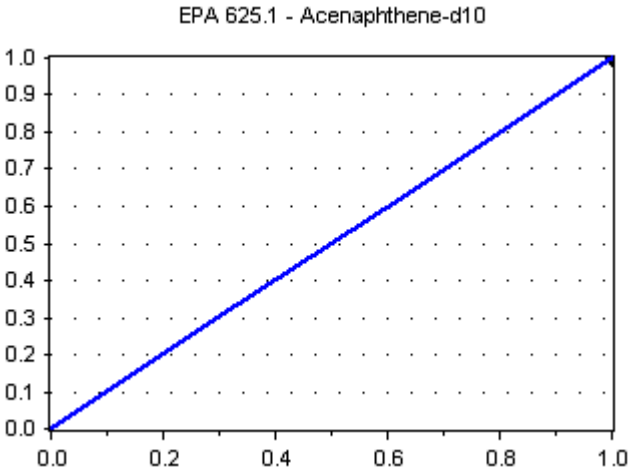
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

Acenaphthene-d10

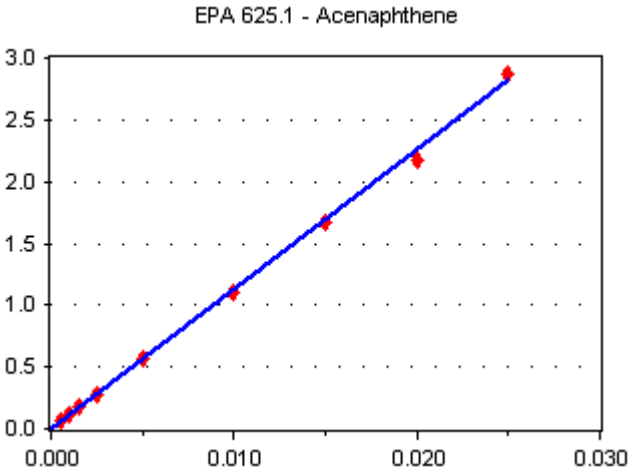


Average RF

RF RSD: 0

[Conc] = 1 * [Response]

Acenaphthene

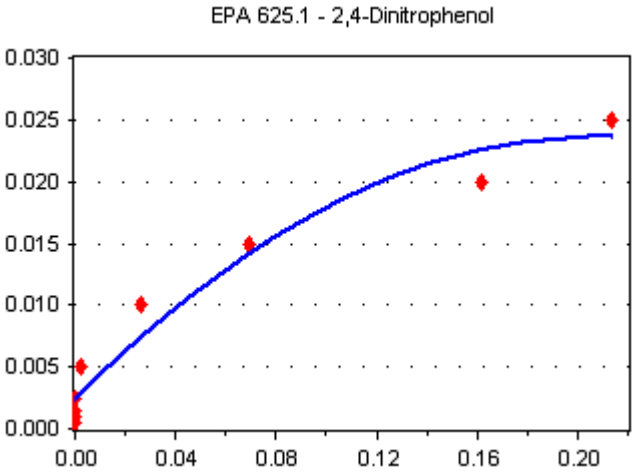


Average RF

RF RSD: 2.438771

[Conc] = 112.6237 * [Response]

2,4-Dinitrophenol



Quadratic Regression

Not Specified

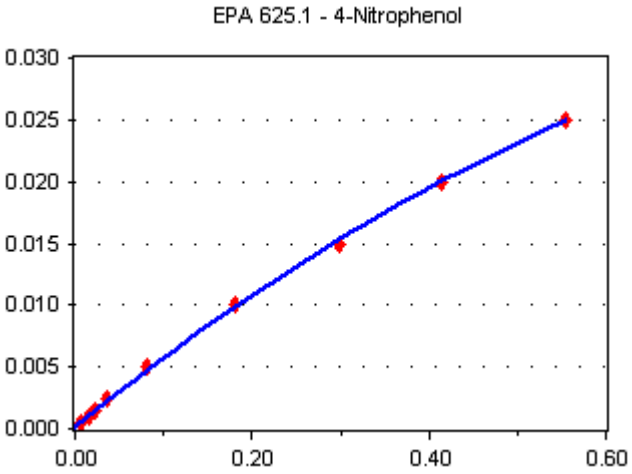
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

4-Nitrophenol

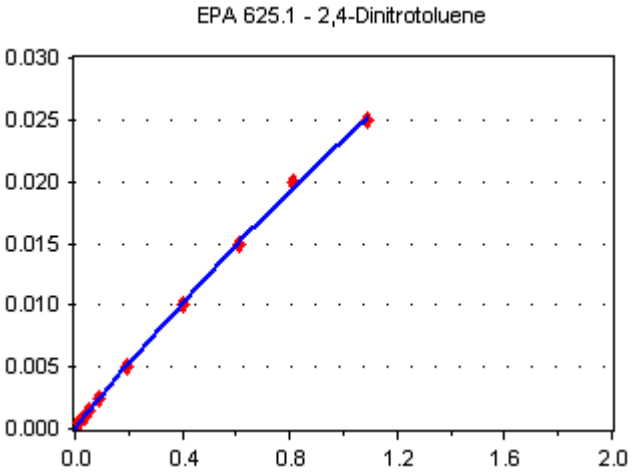


Quadratic Regression

Not Specified

Not Specified

2,4-Dinitrotoluene

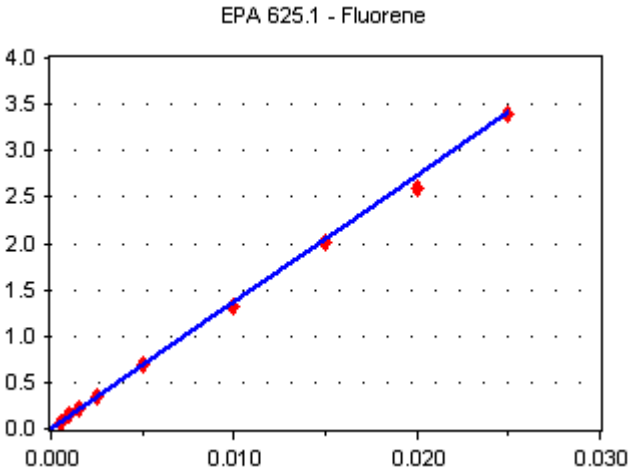


Quadratic Regression

Not Specified

Not Specified

Fluorene



Average RF

RF RSD: 3.480176

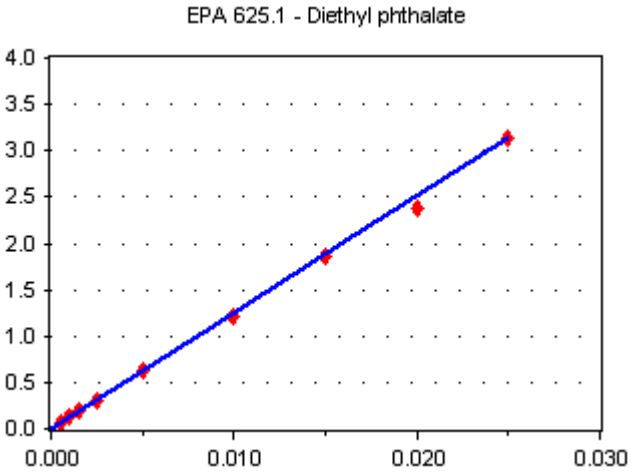
[Conc] = 136.2224 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

Diethyl phthalate

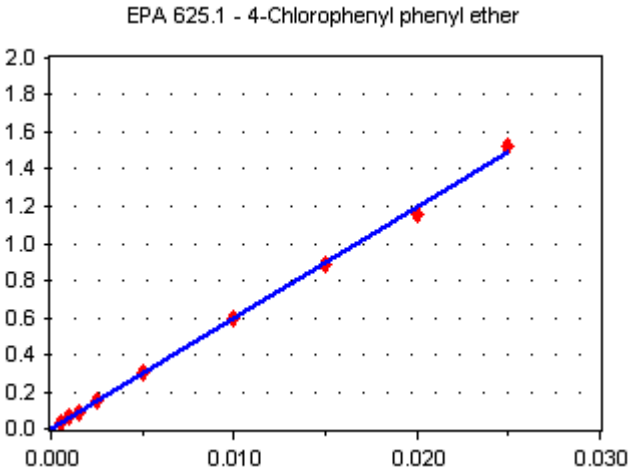


Average RF

RF RSD: 3.774949

[Conc] = 125.7507 * [Response]

4-Chlorophenyl phenyl ether

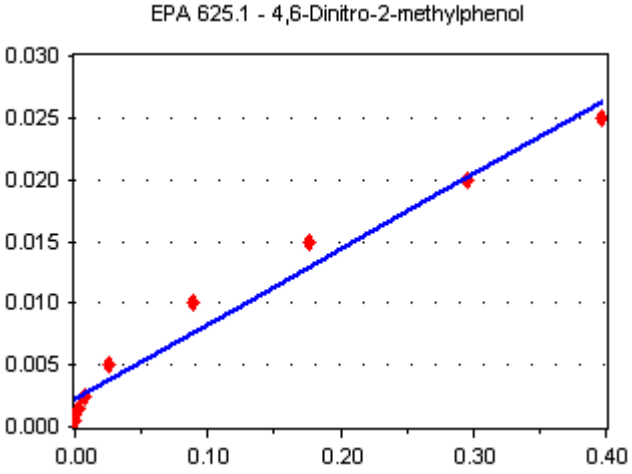


Average RF

RF RSD: 3.058416

[Conc] = 59.84157 * [Response]

4,6-Dinitro-2-methylphenol



Linear Regression

r2: 0.9717228

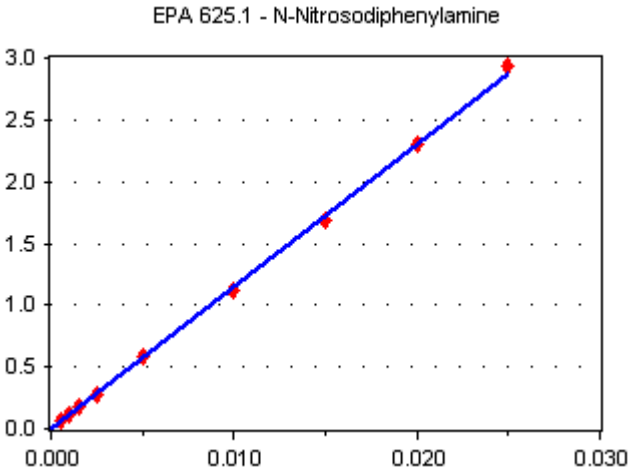
[Conc] = 6.069043E-02 * [Response] + 2.240236E-03

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

N-Nitrosodiphenylamine

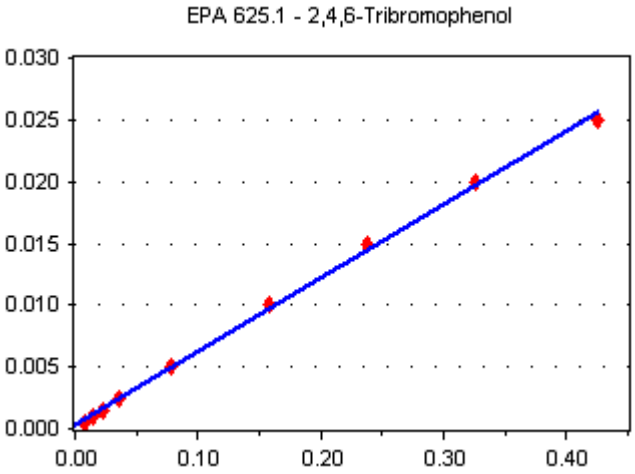


Average RF

RF RSD: 2.207946

[Conc] = 114.6495 * [Response]

2,4,6-Tribromophenol

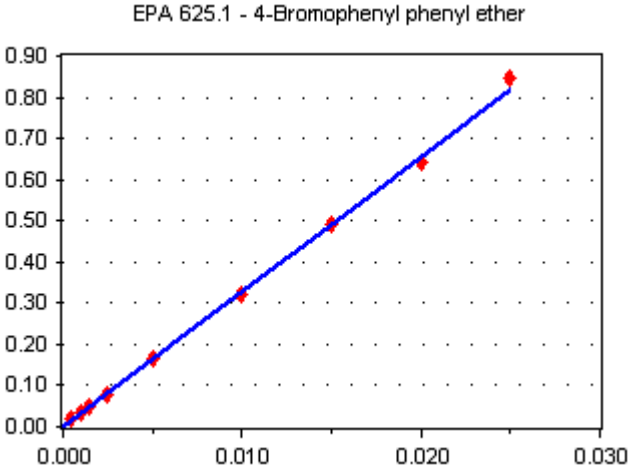


Linear Regression

r2: 0.9987448

[Conc] = 5.944419E-02 * [Response] + 3.148648E-04

4-Bromophenyl phenyl ether



Average RF

RF RSD: 3.434869

[Conc] = 32.75595 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
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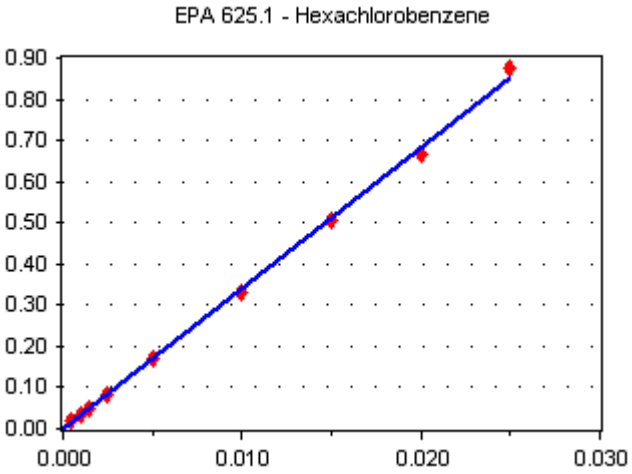
EPA 625.1

Hexachlorobenzene

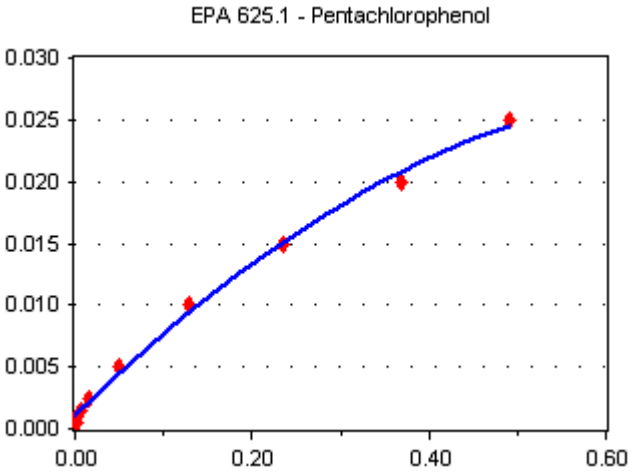


Average RF

RF RSD: 2.836503

[Conc] = 34.14102 * [Response]

Pentachlorophenol

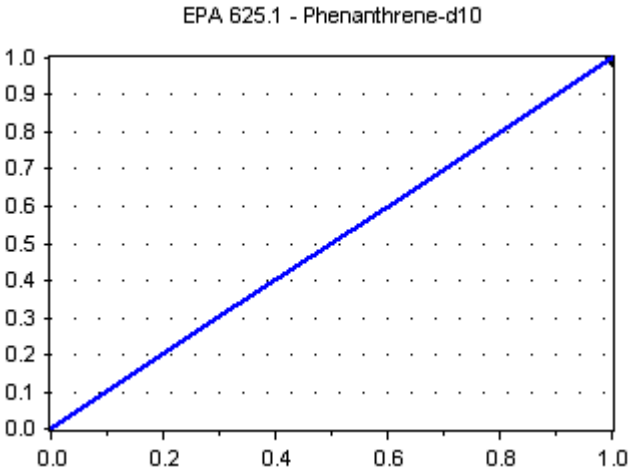


Quadratic Regression

Not Specified

Not Specified

Phenanthrene-d10



Average RF

RF RSD: 0

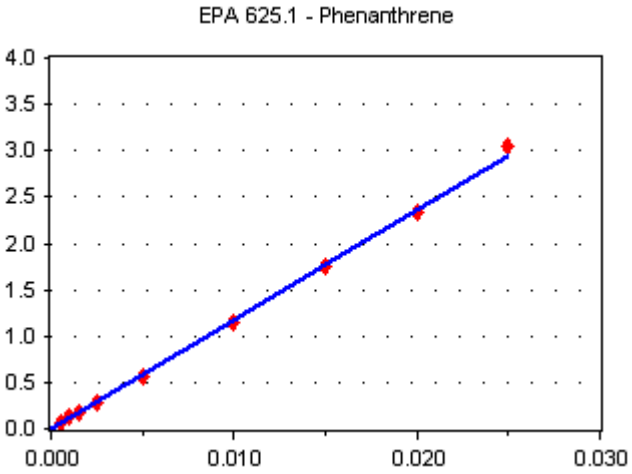
[Conc] = 1 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

Phenanthrene

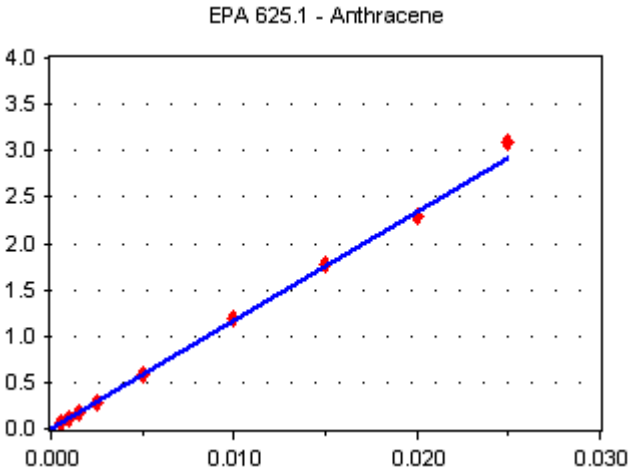


Average RF

RF RSD: 3.030953

[Conc] = 117.5842 * [Response]

Anthracene

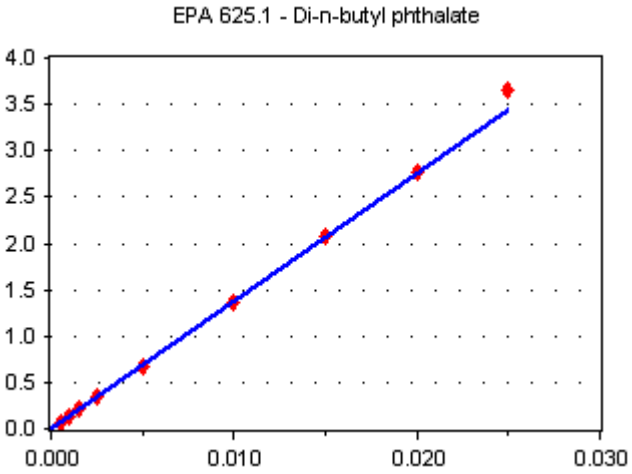


Average RF

RF RSD: 3.187946

[Conc] = 116.7787 * [Response]

Di-n-butyl phthalate



Average RF

RF RSD: 2.888963

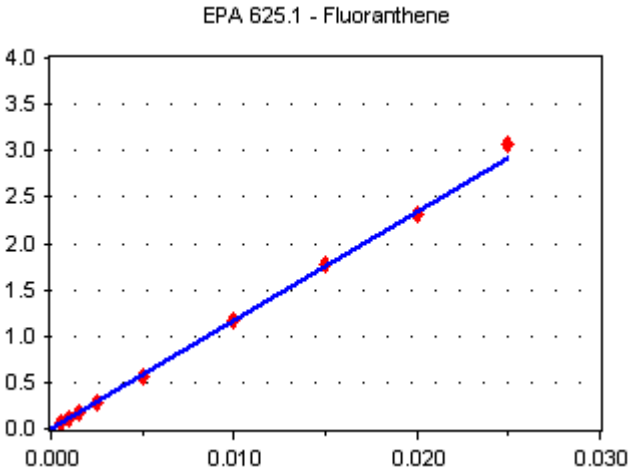
[Conc] = 137.4648 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

Fluoranthene

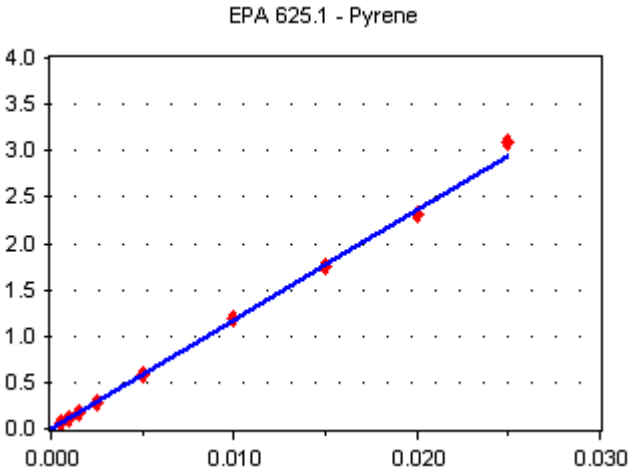


Average RF

RF RSD: 3.456509

[Conc] = 116.6673 * [Response]

Pyrene

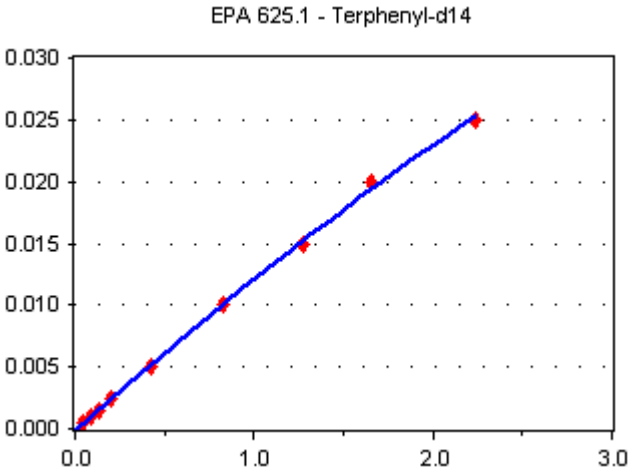


Average RF

RF RSD: 2.731507

[Conc] = 117.9857 * [Response]

Terphenyl-d14



Quadratic Regression

Not Specified

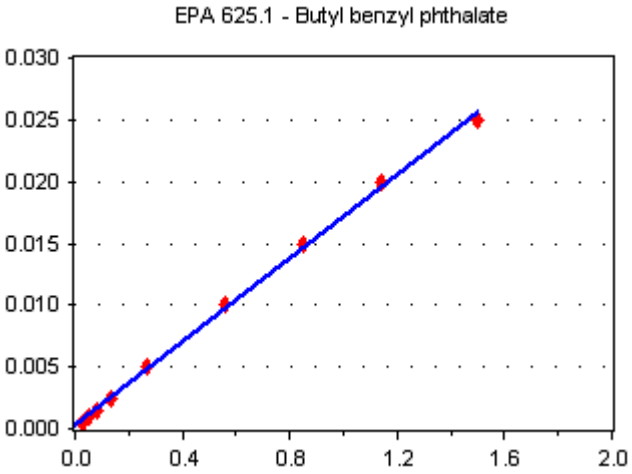
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

Butyl benzyl phthalate

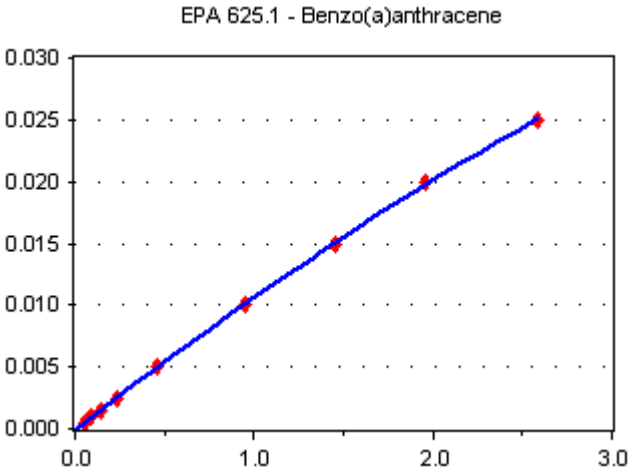


Linear Regression

r2: 0.9986558

[Conc] = 1.692785E-02 * [Response] + 2.632865E-04

Benzo(a)anthracene

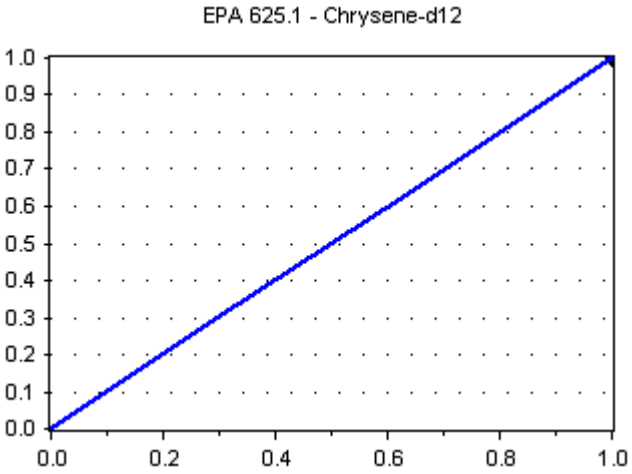


Quadratic Regression

Not Specified

Not Specified

Chrysene-d12



Average RF

RF RSD: 0

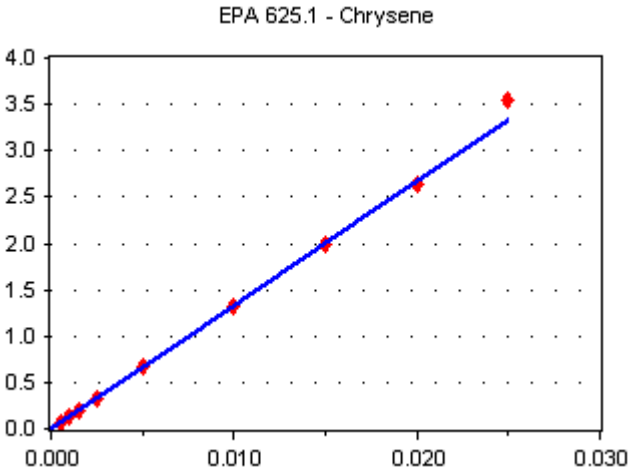
[Conc] = 1 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

Chrysene

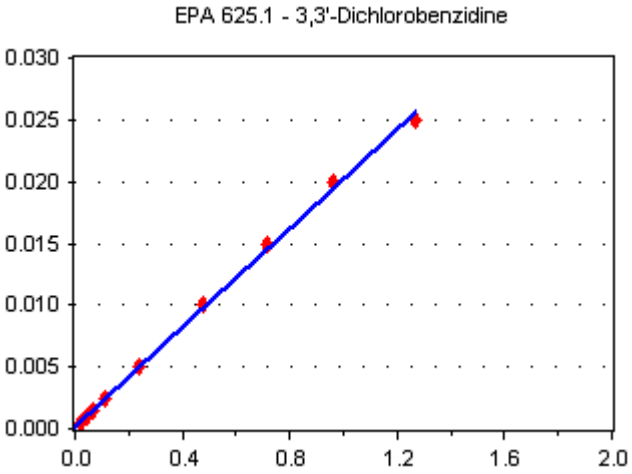


Average RF

RF RSD: 2.801013

[Conc] = 133.2257 * [Response]

3,3'-Dichlorobenzidine

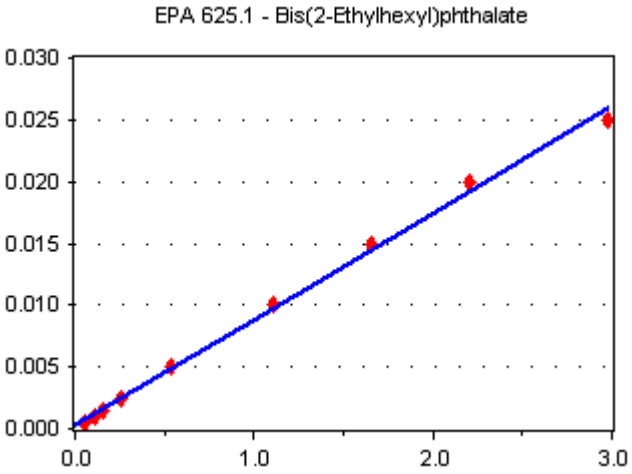


Linear Regression

r2: 0.9985524

[Conc] = 2.000787E-02 * [Response] + 2.411684E-04

Bis(2-Ethylhexyl)phthalate



Linear Regression

r2: 0.9972419

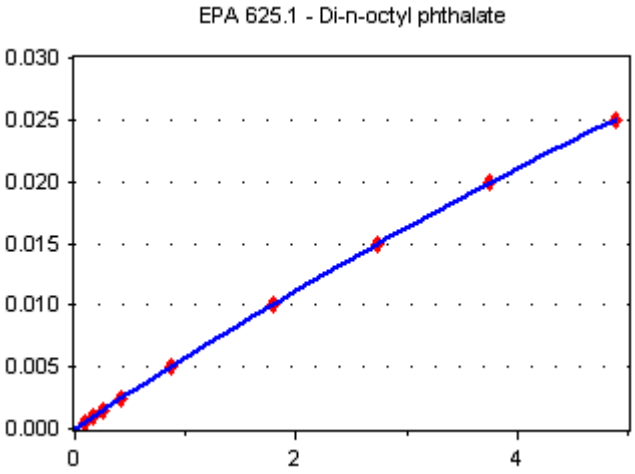
[Conc] = 8.589563E-03 * [Response] + 2.892768E-04

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

Di-n-octyl phthalate

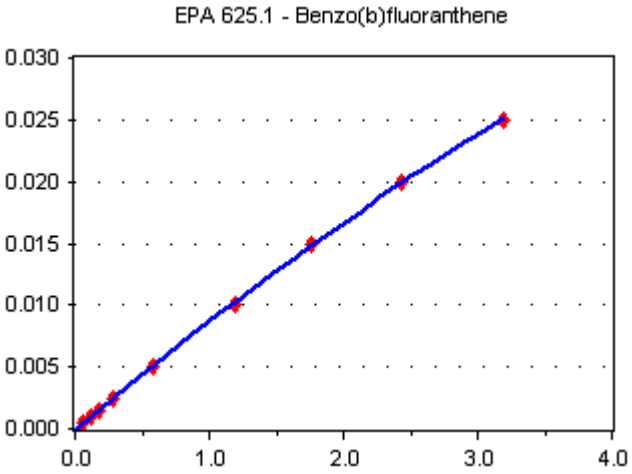


Quadratic Regression

Not Specified

Not Specified

Benzo(b)fluoranthene

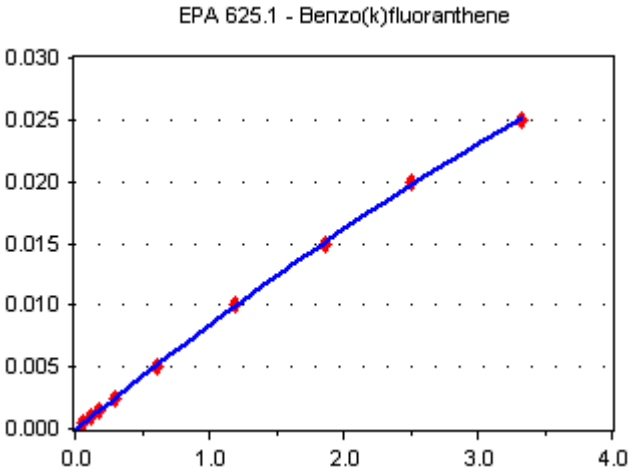


Quadratic Regression

Not Specified

Not Specified

Benzo(k)fluoranthene



Quadratic Regression

Not Specified

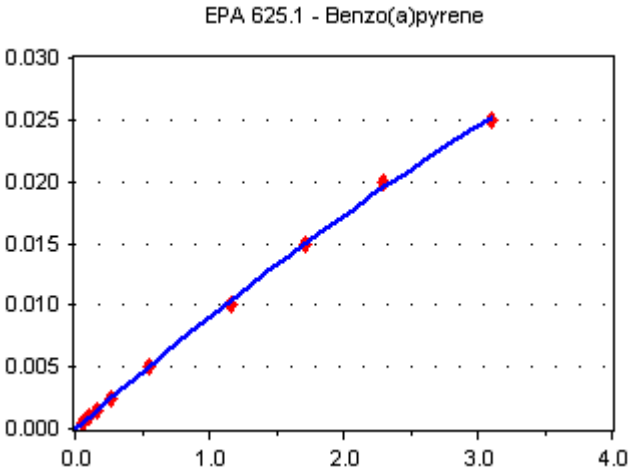
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

Benzo(a)pyrene

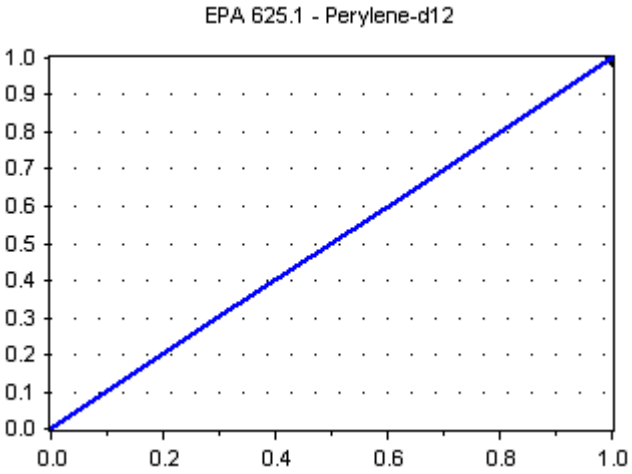


Quadratic Regression

Not Specified

Not Specified

Perylene-d12

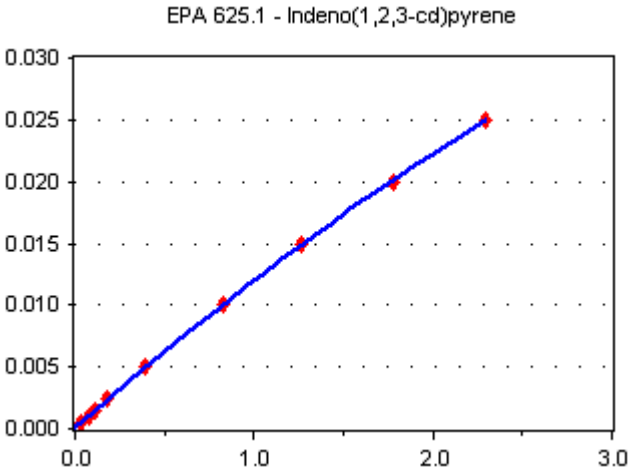


Average RF

RF RSD: 0

[Conc] = 1 * [Response]

Indeno(1,2,3-cd)pyrene



Quadratic Regression

Not Specified

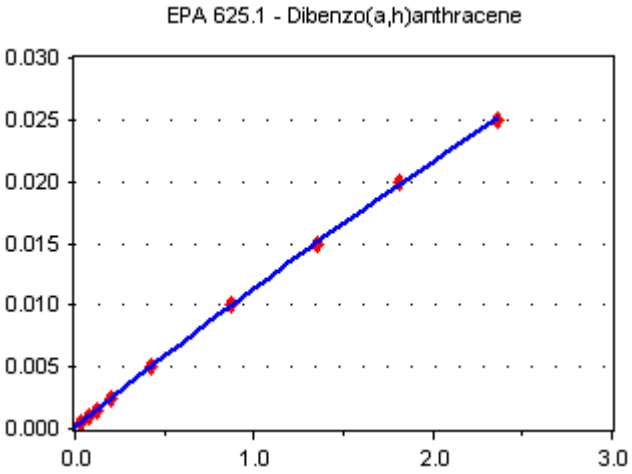
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

Dibenzo(a,h)anthracene

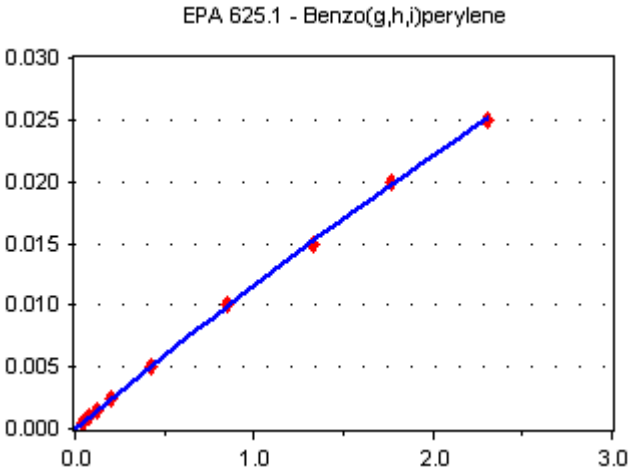


Quadratic Regression

Not Specified

Not Specified

Benzo(g,h,i)perylene

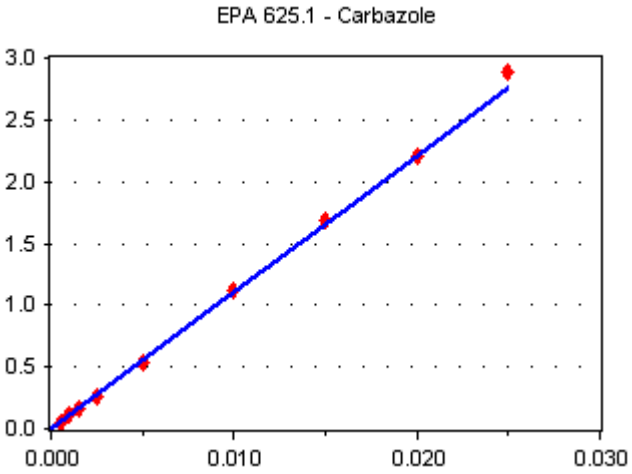


Quadratic Regression

Not Specified

Not Specified

Carbazole



Average RF

RF RSD: 2.890854

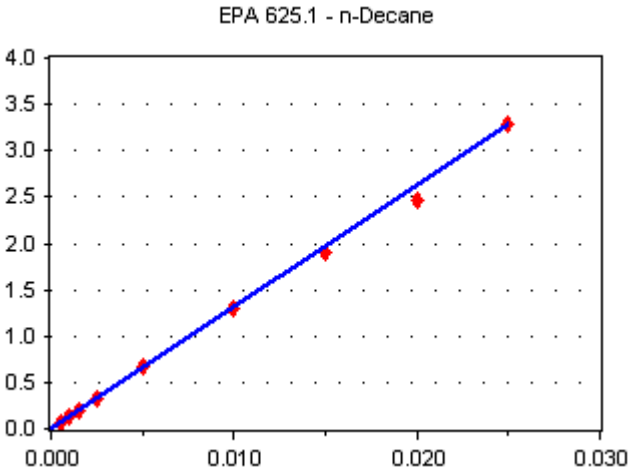
[Conc] = 109.9766 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 625.1

n-Decane

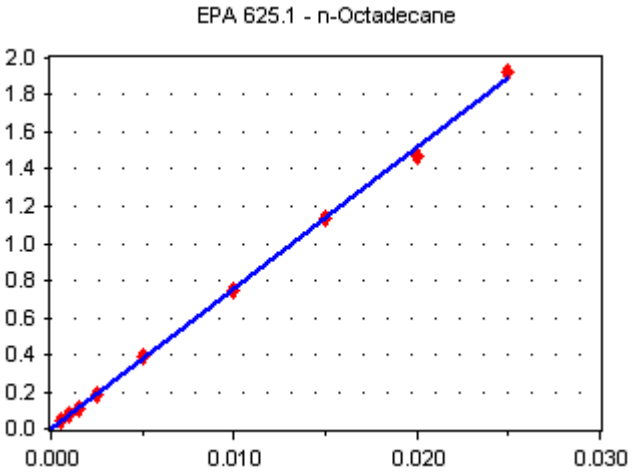


Average RF

RF RSD: 3.321926

[Conc] = 131.6616 * [Response]

n-Octadecane



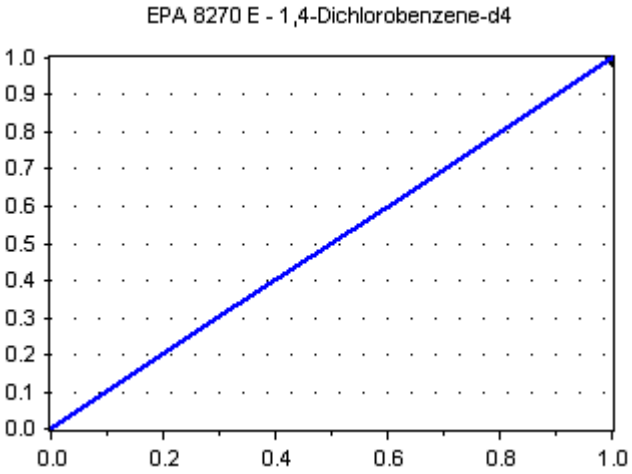
Average RF

RF RSD: 2.310627

[Conc] = 75.77011 * [Response]

EPA 8270 E

1,4-Dichlorobenzene-d4



Average RF

RF RSD: 0

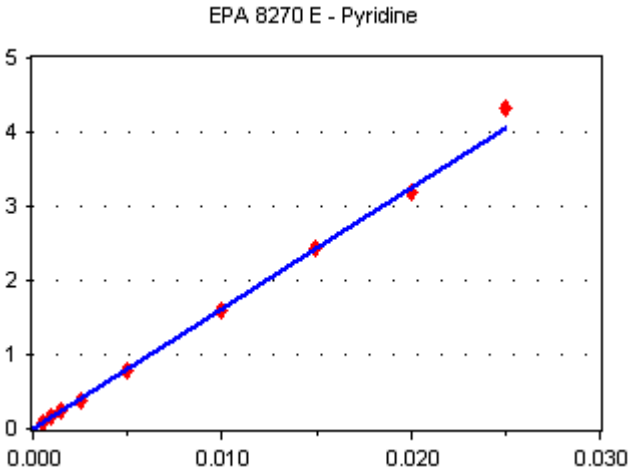
[Conc] = 1 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Pyridine

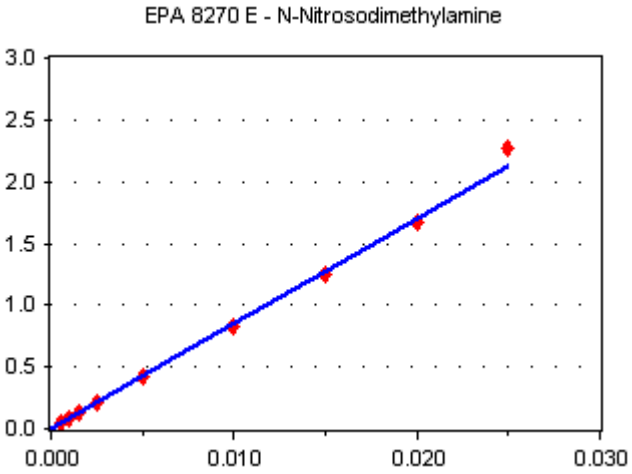


Average RF

RF RSD: 3.953662

[Conc] = 162.3604 * [Response]

N-Nitrosodimethylamine

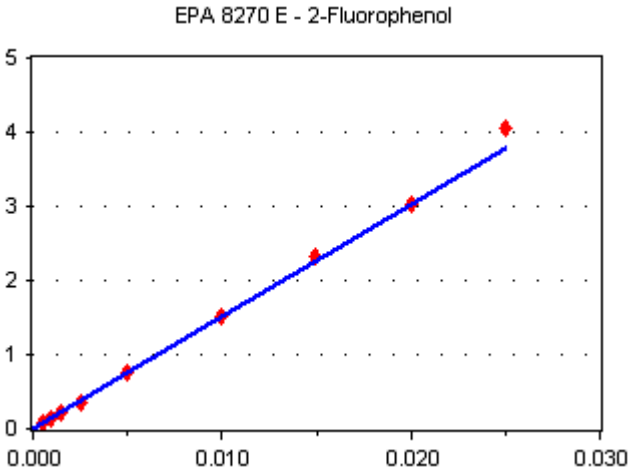


Average RF

RF RSD: 3.301453

[Conc] = 85.04263 * [Response]

2-Fluorophenol



Average RF

RF RSD: 3.852299

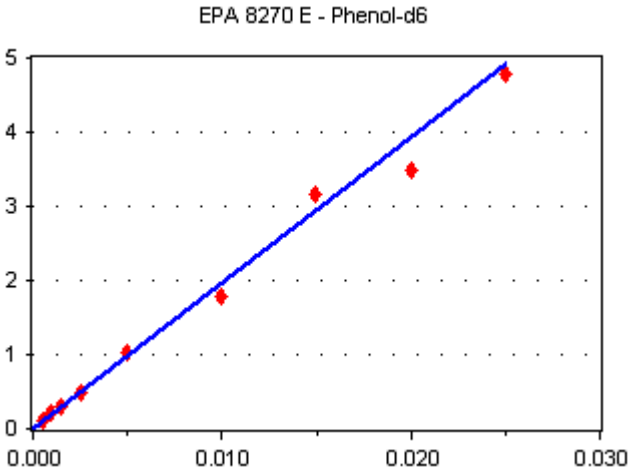
[Conc] = 151.0814 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Phenol-d6

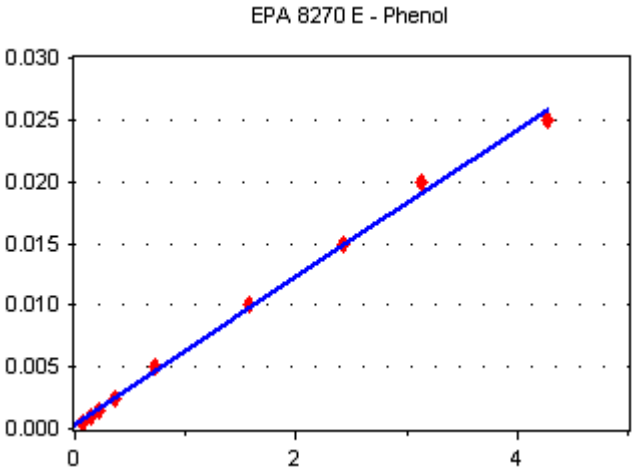


Average RF

RF RSD: 6.391951

[Conc] = 196.701 * [Response]

Phenol

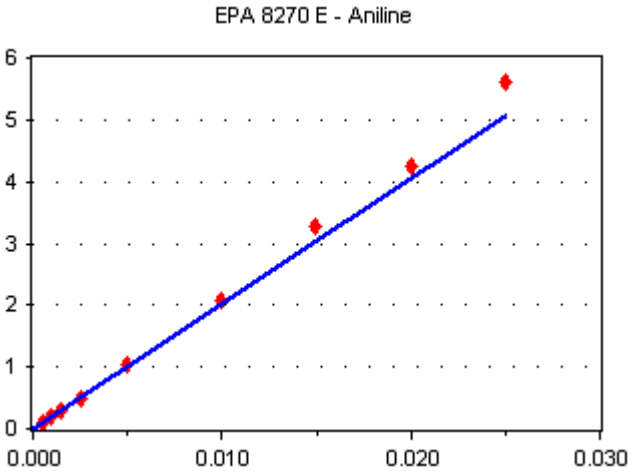


Linear Regression

r2: 0.997273

[Conc] = 5.959897E-03 * [Response] + 3.881248E-04

Aniline



Average RF

RF RSD: 7.120501

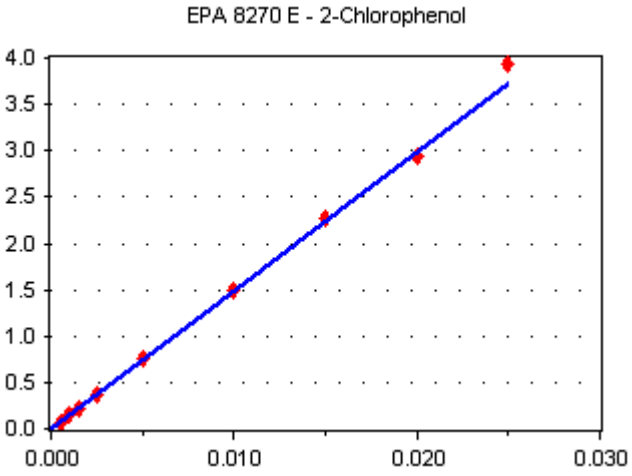
[Conc] = 202.5663 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

2-Chlorophenol

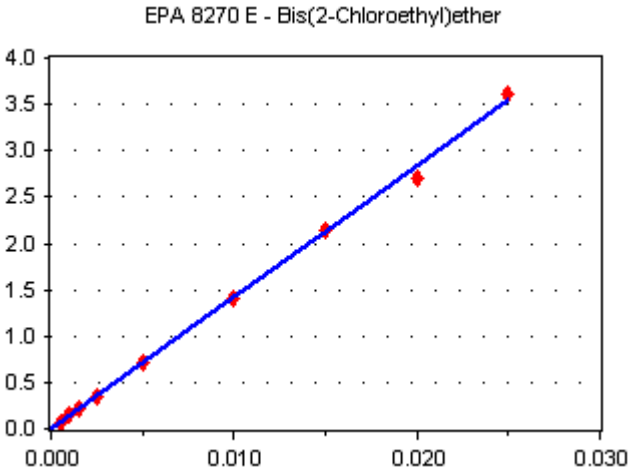


Average RF

RF RSD: 2.883177

[Conc] = 149.1501 * [Response]

Bis(2-Chloroethyl)ether

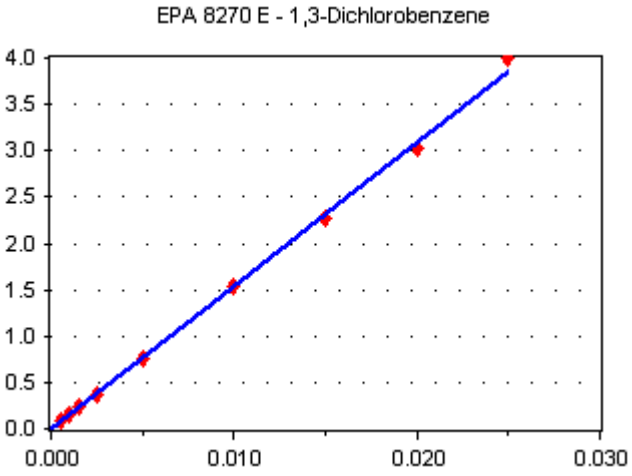


Average RF

RF RSD: 2.598651

[Conc] = 141.6409 * [Response]

1,3-Dichlorobenzene



Average RF

RF RSD: 2.2677

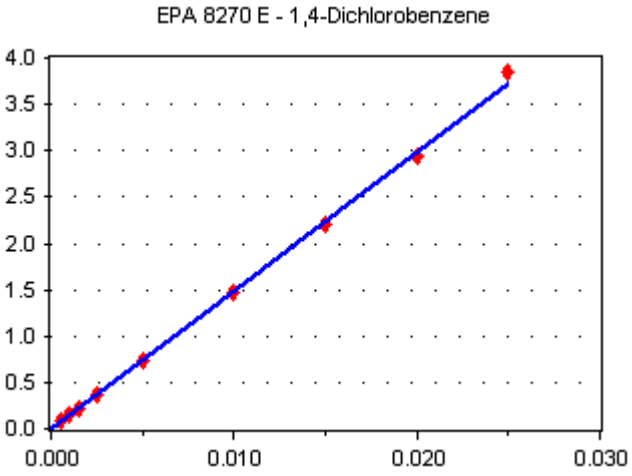
[Conc] = 153.8619 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

1,4-Dichlorobenzene

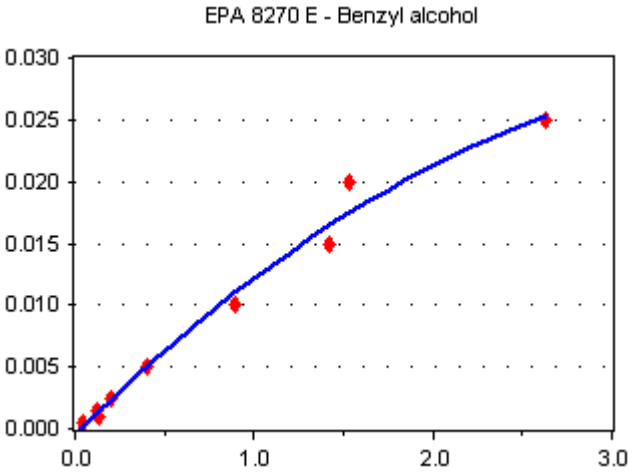


Average RF

RF RSD: 2.163519

[Conc] = 148.58 * [Response]

Benzyl alcohol

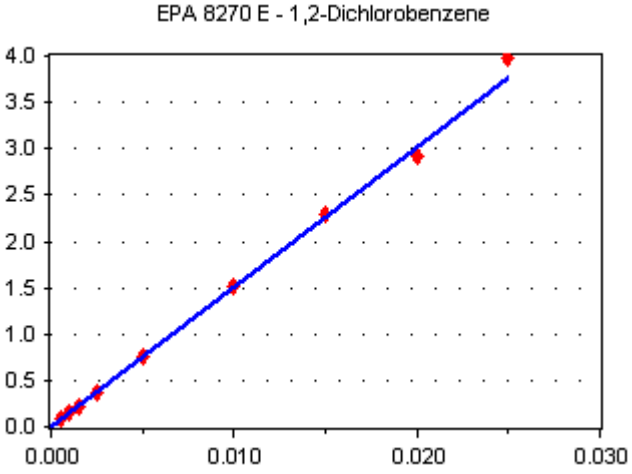


Quadratic Regression

Not Specified

Not Specified

1,2-Dichlorobenzene



Average RF

RF RSD: 3.000108

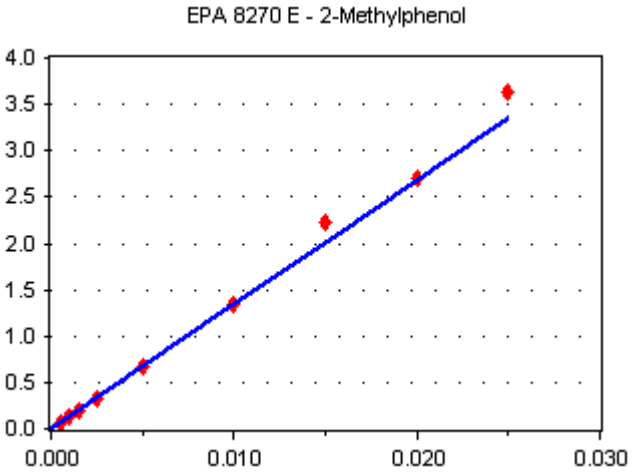
[Conc] = 150.2996 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

2-Methylphenol

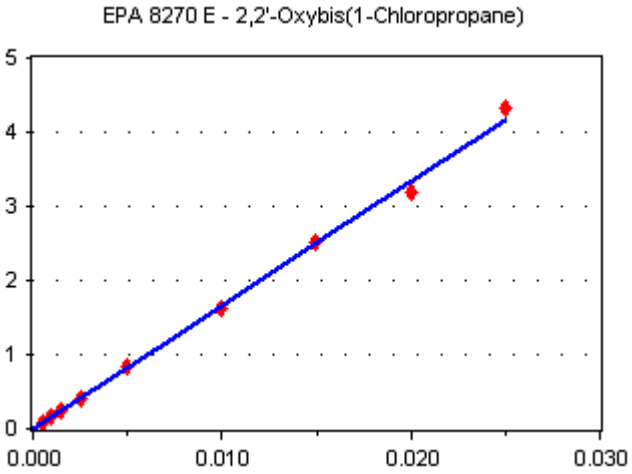


Average RF

RF RSD: 5.834535

[Conc] = 134.146 * [Response]

2,2'-Oxybis(1-Chloropropane)

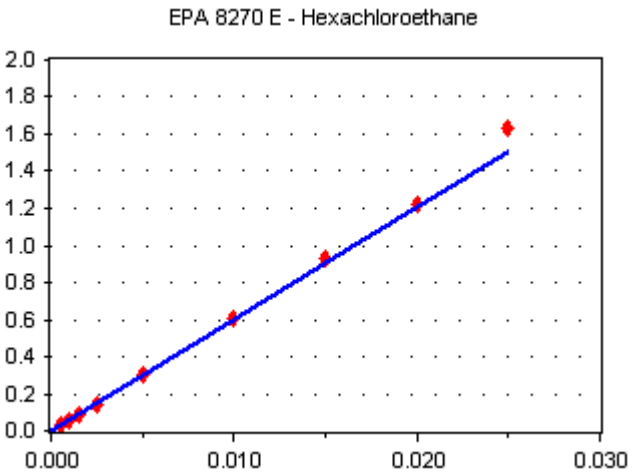


Average RF

RF RSD: 2.994482

[Conc] = 166.4064 * [Response]

Hexachloroethane



Average RF

RF RSD: 4.673591

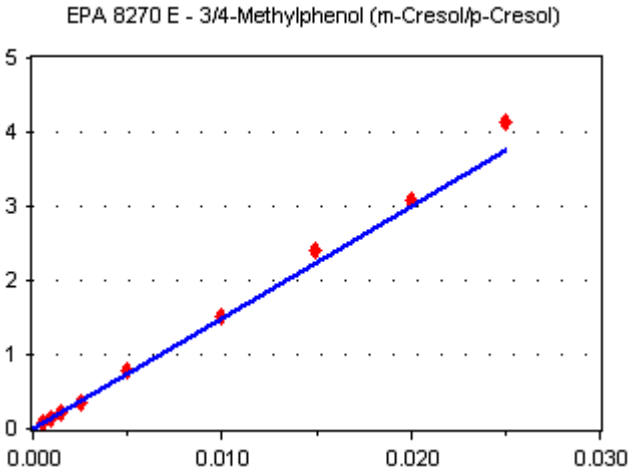
[Conc] = 60.02782 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

3/4-Methylphenol (m-Cresol/p-Cresol

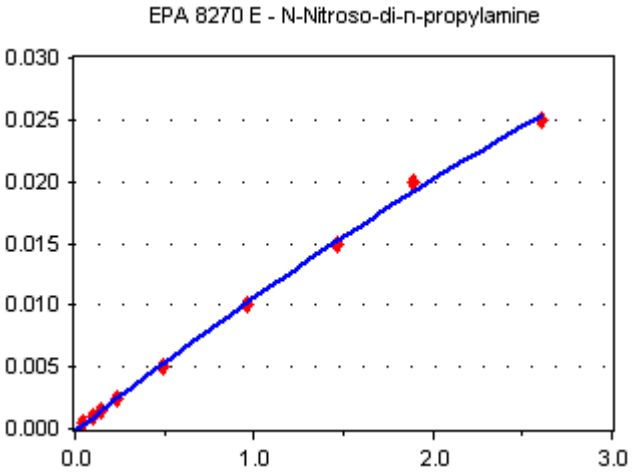


Average RF

RF RSD: 6.346458

[Conc] = 149.8869 * [Response]

N-Nitroso-di-n-propylamine

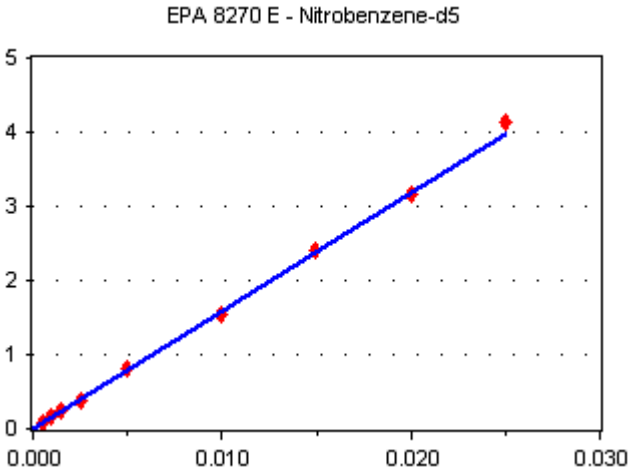


Quadratic Regression

Not Specified

Not Specified

Nitrobenzene-d5



Average RF

RF RSD: 2.30659

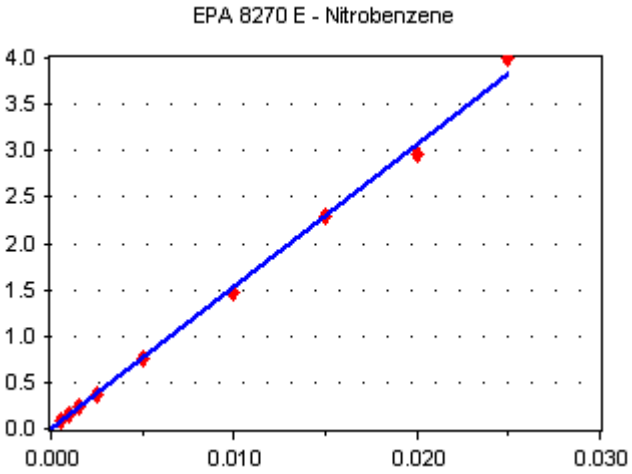
[Conc] = 159.094 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Nitrobenzene

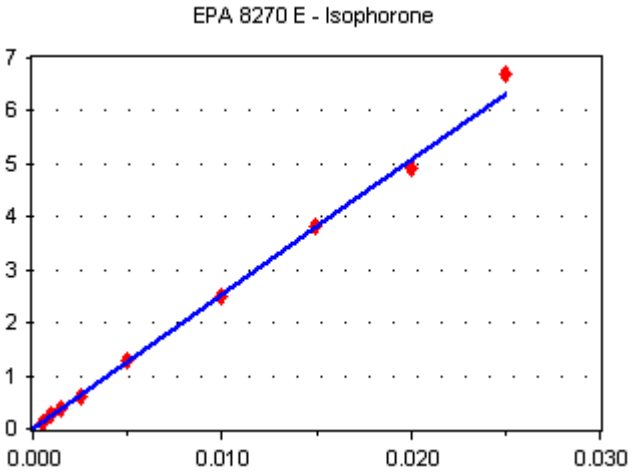


Average RF

RF RSD: 3.782085

[Conc] = 152.9259 * [Response]

Isophorone

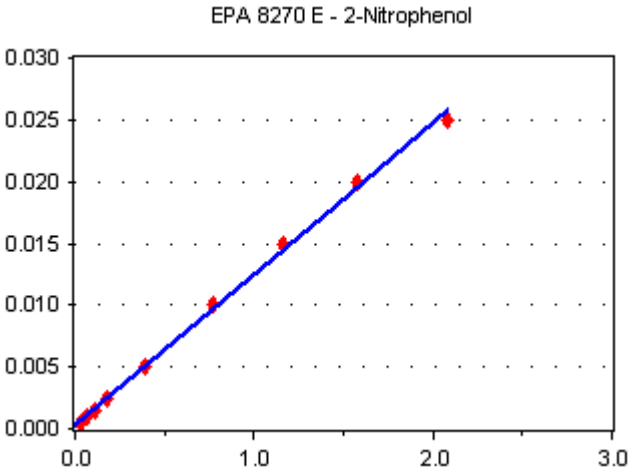


Average RF

RF RSD: 2.580761

[Conc] = 253.2705 * [Response]

2-Nitrophenol



Linear Regression

r2: 0.9982799

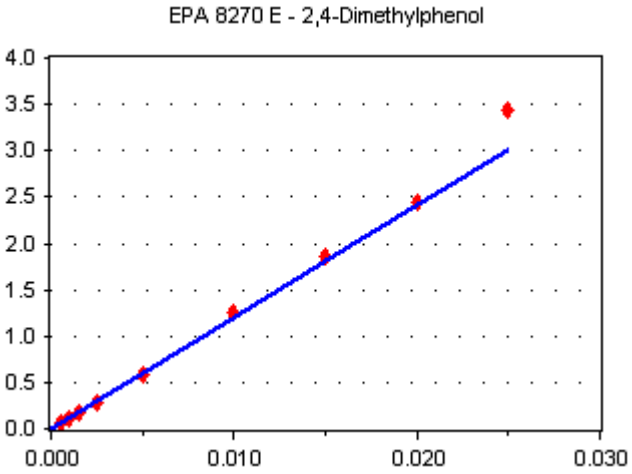
[Conc] = 1.220544E-02 * [Response] + 3.061564E-04

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

2,4-Dimethylphenol

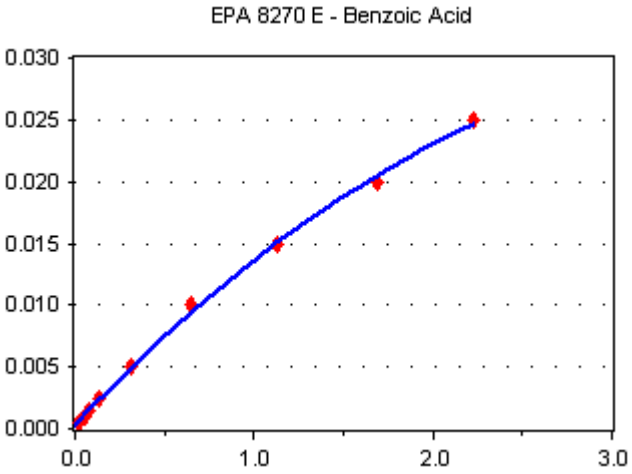


Average RF

RF RSD: 7.395313

[Conc] = 120.1504 * [Response]

Benzoic Acid

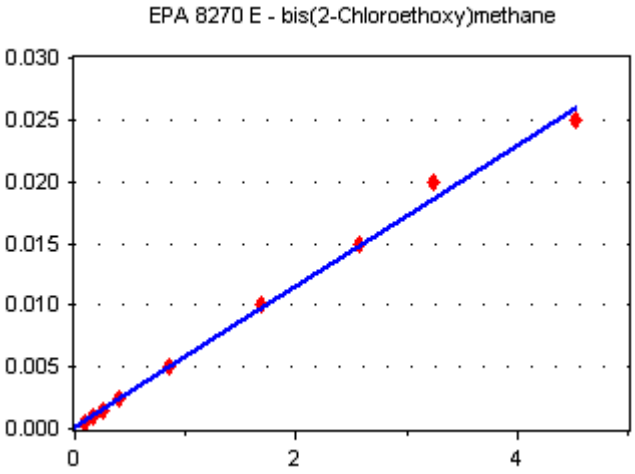


Quadratic Regression

Not Specified

Not Specified

bis(2-Chloroethoxy)methane



Linear Regression

r2: 0.9957728

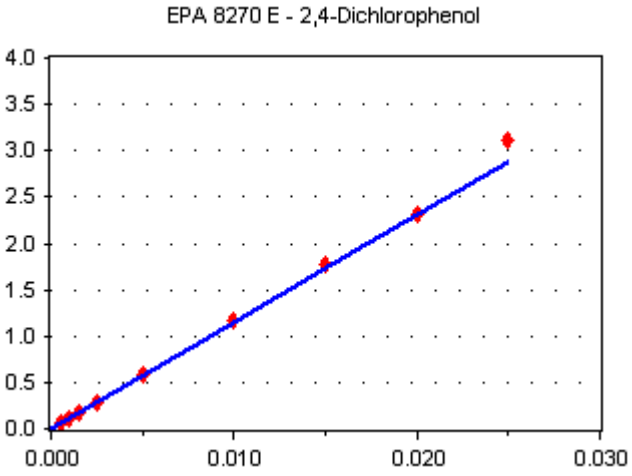
[Conc] = 5.699042E-03 * [Response] + 2.125484E-04

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

2,4-Dichlorophenol

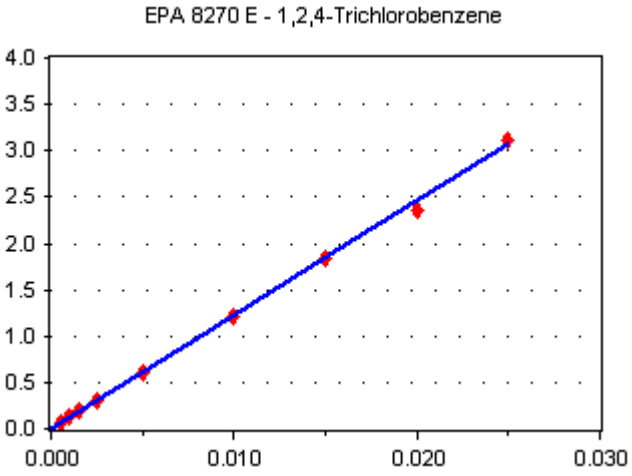


Average RF

RF RSD: 4.133969

[Conc] = 115.0076 * [Response]

1,2,4-Trichlorobenzene

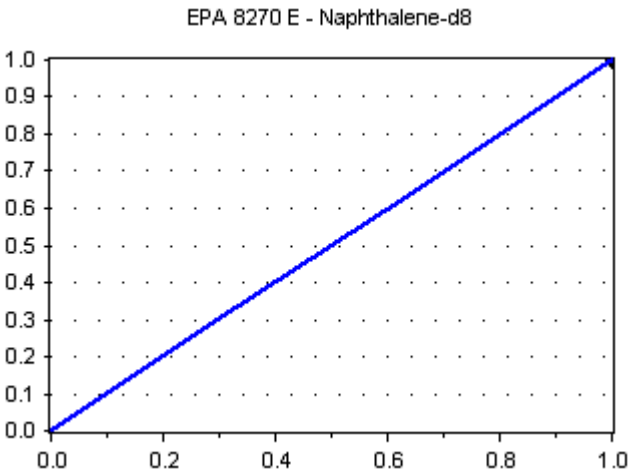


Average RF

RF RSD: 2.756758

[Conc] = 122.7136 * [Response]

Naphthalene-d8



Average RF

RF RSD: 0

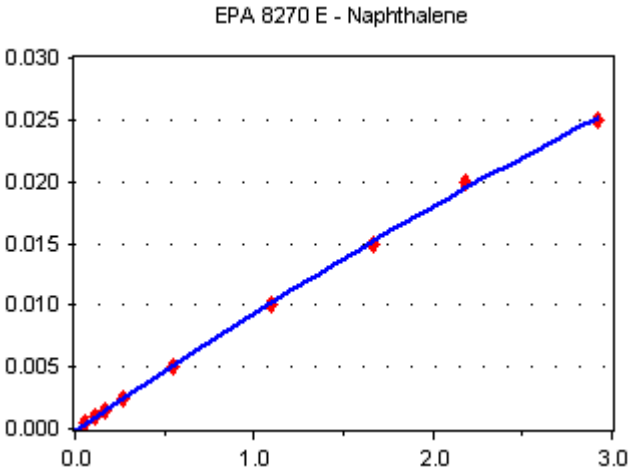
[Conc] = 1 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Naphthalene

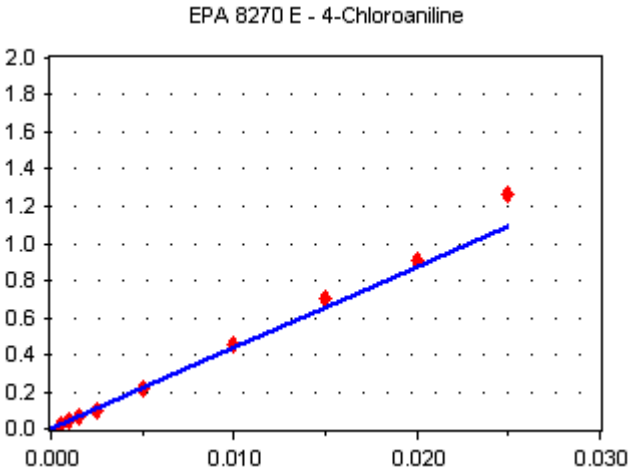


Quadratic Regression

Not Specified

Not Specified

4-Chloroaniline

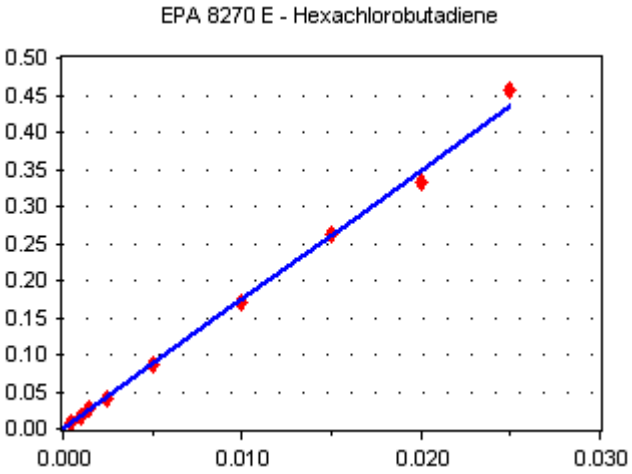


Average RF

RF RSD: 9.50945

[Conc] = 43.46201 * [Response]

Hexachlorobutadiene



Average RF

RF RSD: 3.108283

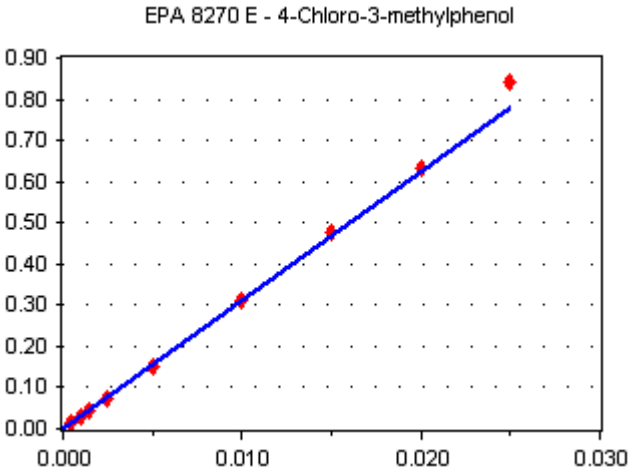
[Conc] = 17.35661 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

4-Chloro-3-methylphenol

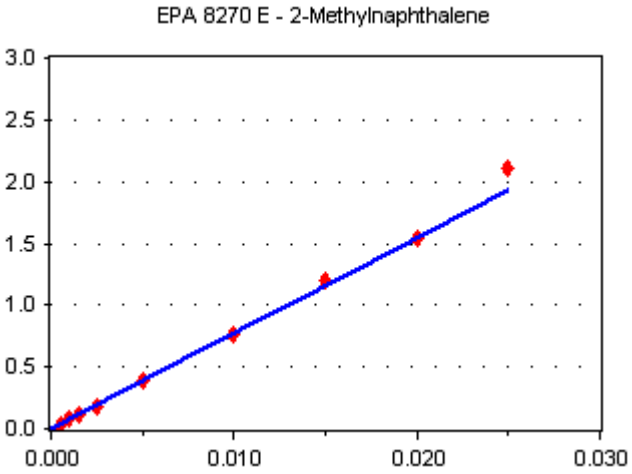


Average RF

RF RSD: 4.055711

[Conc] = 31.11442 * [Response]

2-Methylnaphthalene

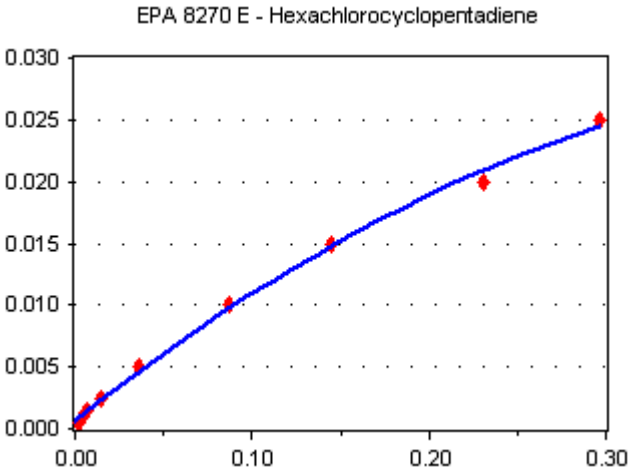


Average RF

RF RSD: 4.709608

[Conc] = 76.90984 * [Response]

Hexachlorocyclopentadiene



Quadratic Regression

Not Specified

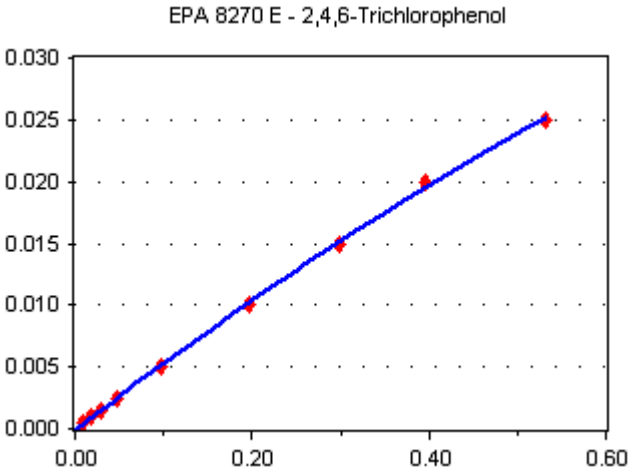
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

2,4,6-Trichlorophenol

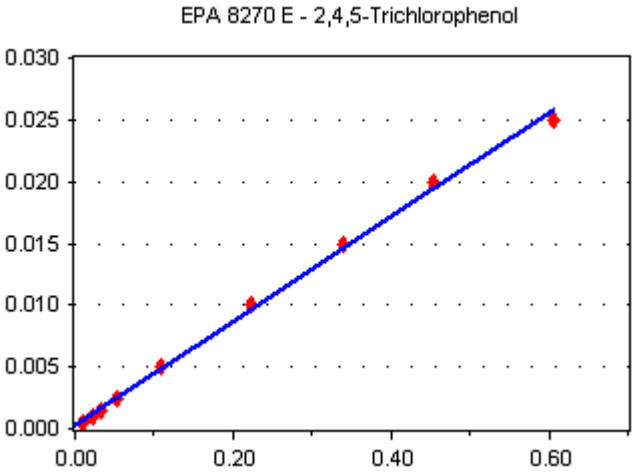


Quadratic Regression

Not Specified

Not Specified

2,4,5-Trichlorophenol

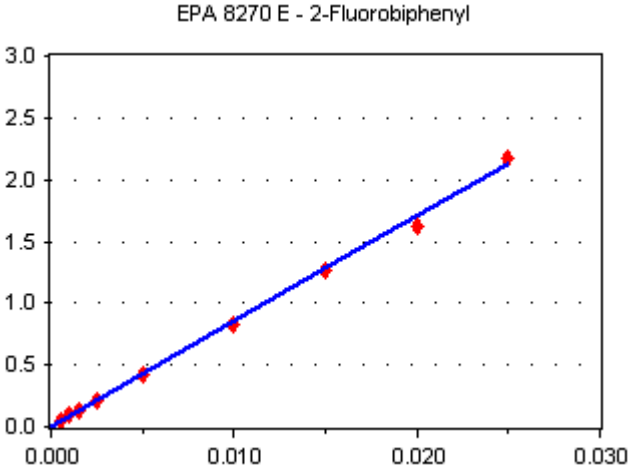


Linear Regression

r2: 0.9977987

[Conc] = 4.203946E-02 * [Response] + 3.055677E-04

2-Fluorobiphenyl



Average RF

RF RSD: 3.428671

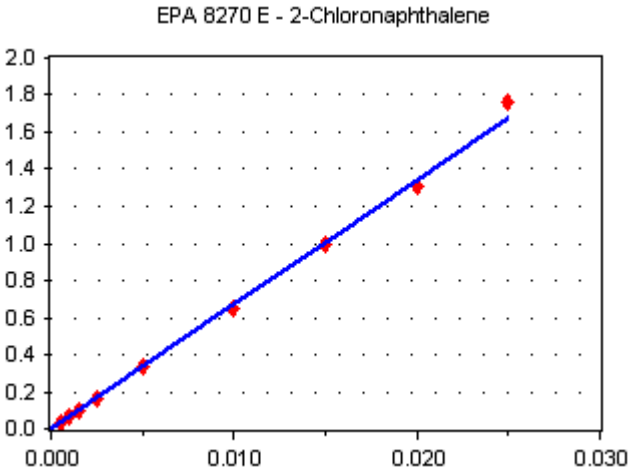
[Conc] = 85.19841 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

2-Chloronaphthalene

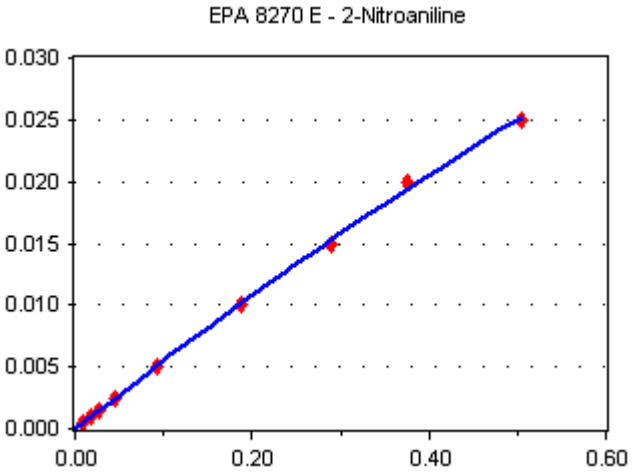


Average RF

RF RSD: 2.856679

[Conc] = 66.88138 * [Response]

2-Nitroaniline

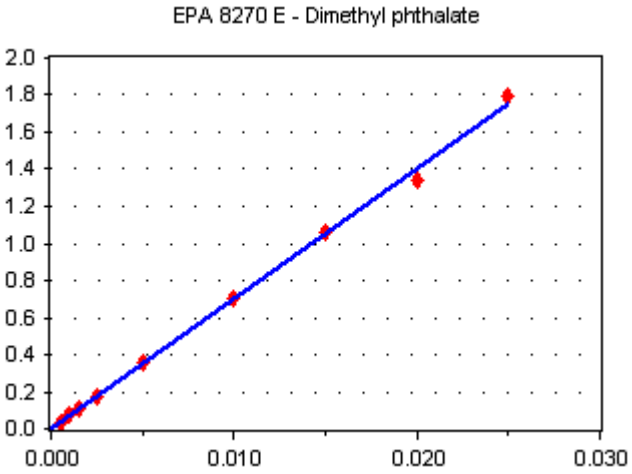


Quadratic Regression

Not Specified

Not Specified

Dimethyl phthalate



Average RF

RF RSD: 2.691675

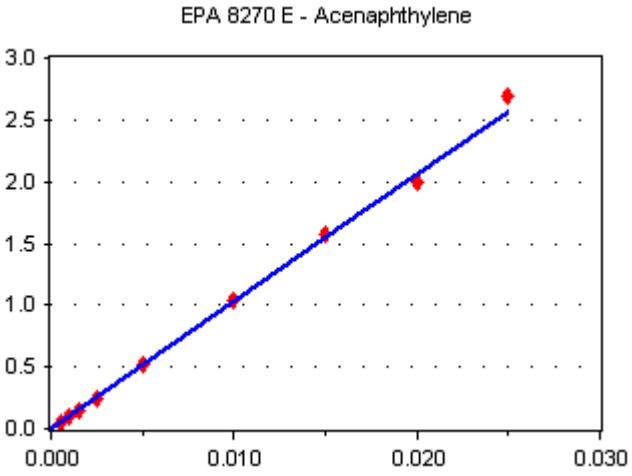
[Conc] = 70.25634 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Acenaphthylene

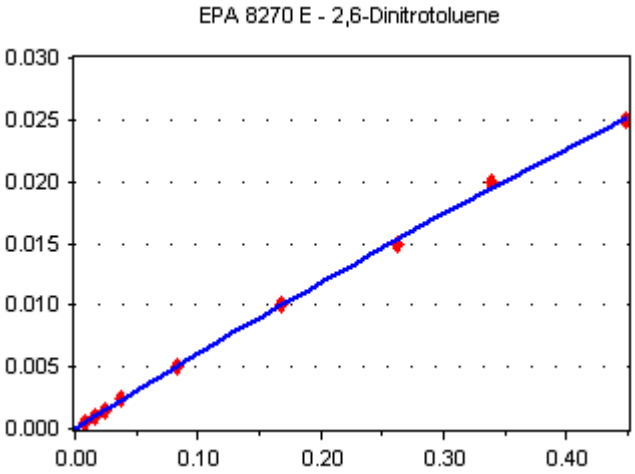


Average RF

RF RSD: 2.659165

[Conc] = 102.7253 * [Response]

2,6-Dinitrotoluene

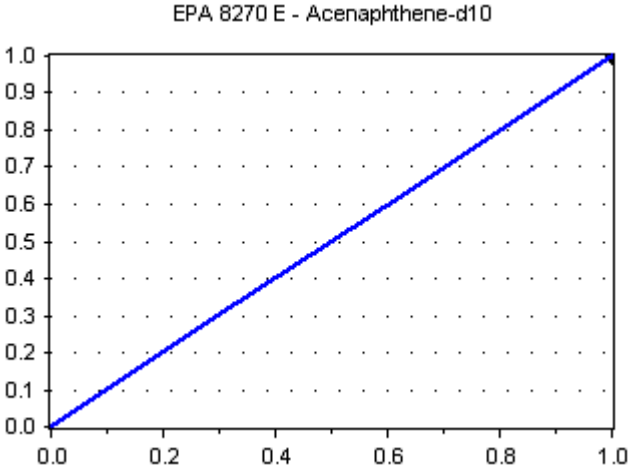


Quadratic Regression

Not Specified

Not Specified

Acenaphthene-d10



Average RF

RF RSD: 0

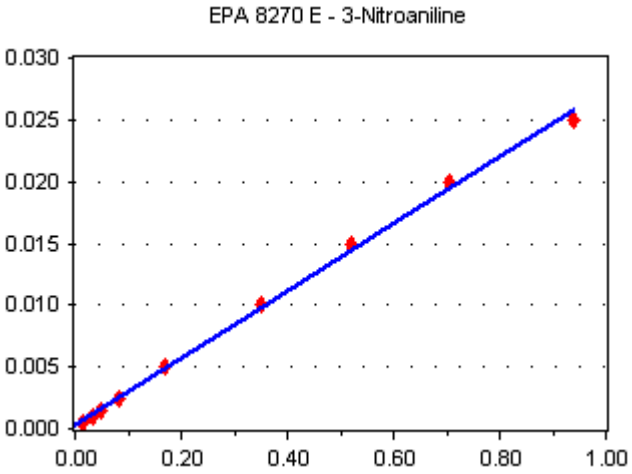
[Conc] = 1 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

3-Nitroaniline

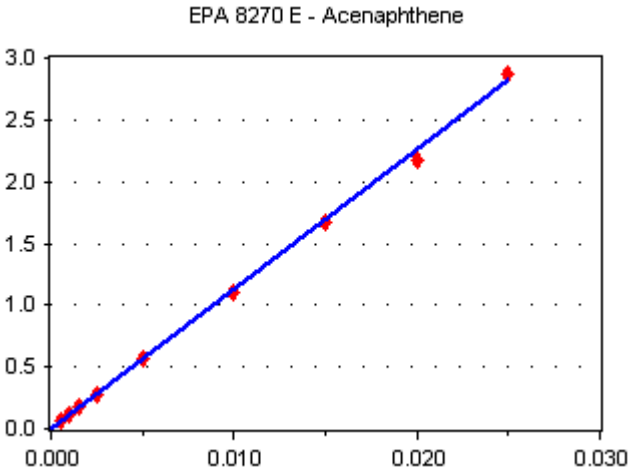


Linear Regression

r2: 0.9978833

[Conc] = 2.714793E-02 * [Response] + 2.88083E-04

Acenaphthene

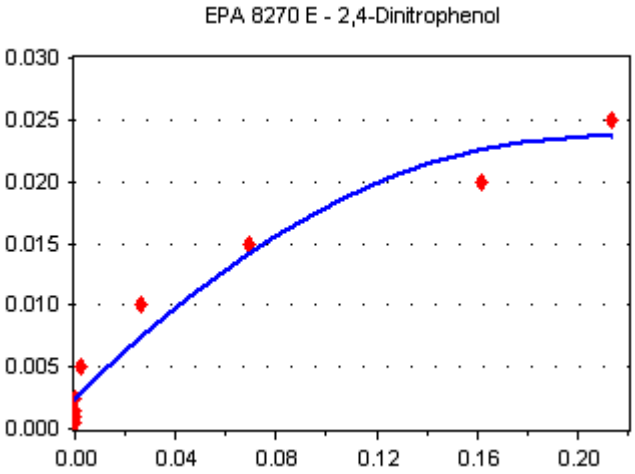


Average RF

RF RSD: 2.438771

[Conc] = 112.6237 * [Response]

2,4-Dinitrophenol



Quadratic Regression

Not Specified

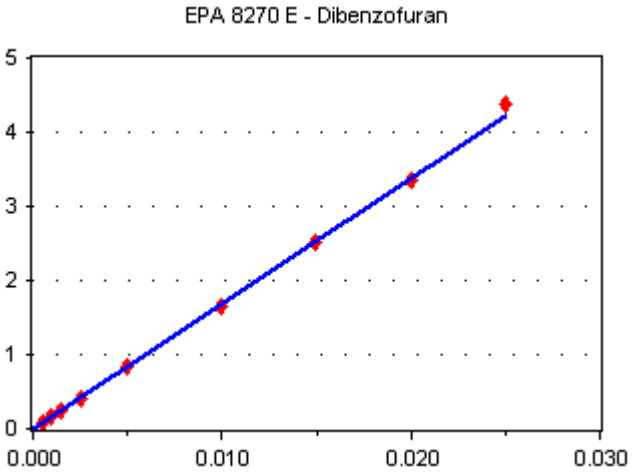
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Dibenzofuran

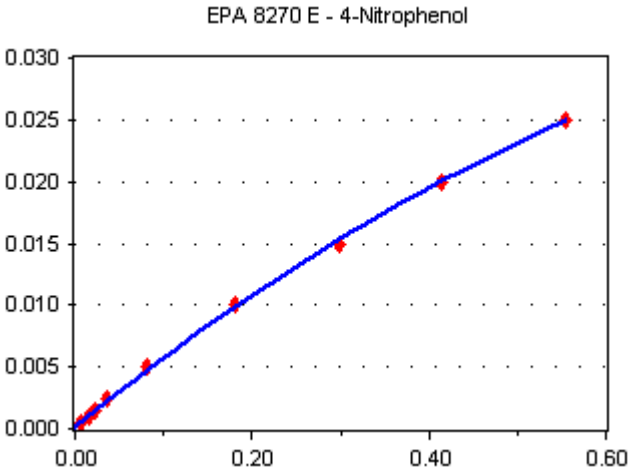


Average RF

RF RSD: 2.8139

[Conc] = 168.3621 * [Response]

4-Nitrophenol

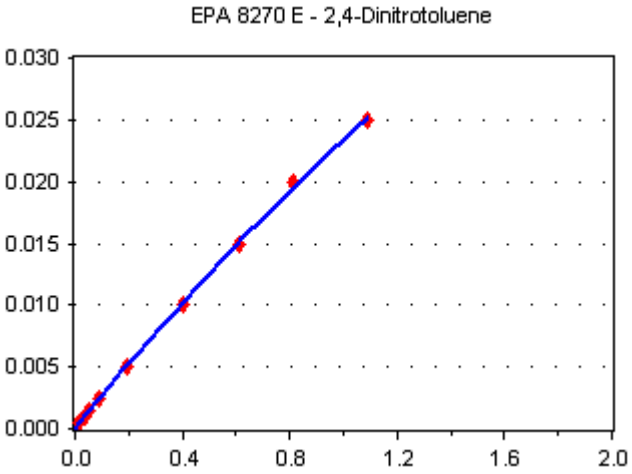


Quadratic Regression

Not Specified

Not Specified

2,4-Dinitrotoluene



Quadratic Regression

Not Specified

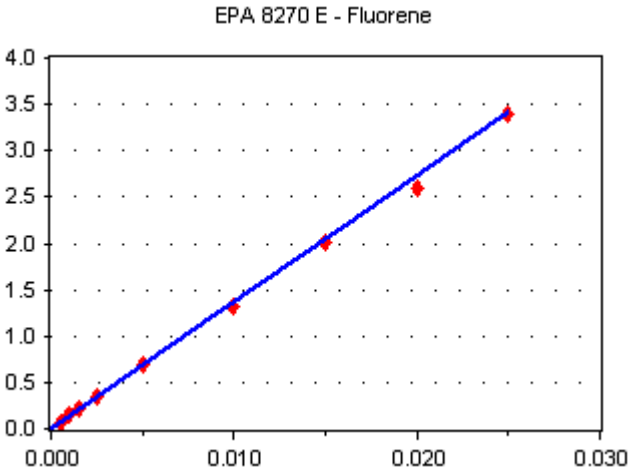
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Fluorene

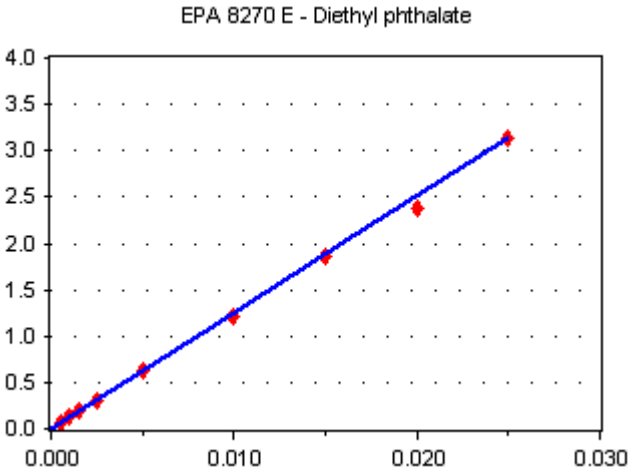


Average RF

RF RSD: 3.480176

[Conc] = 136.2224 * [Response]

Diethyl phthalate

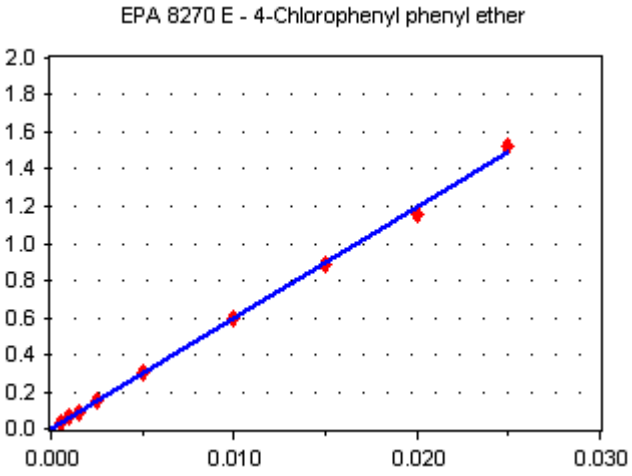


Average RF

RF RSD: 3.774949

[Conc] = 125.7507 * [Response]

4-Chlorophenyl phenyl ether



Average RF

RF RSD: 3.058416

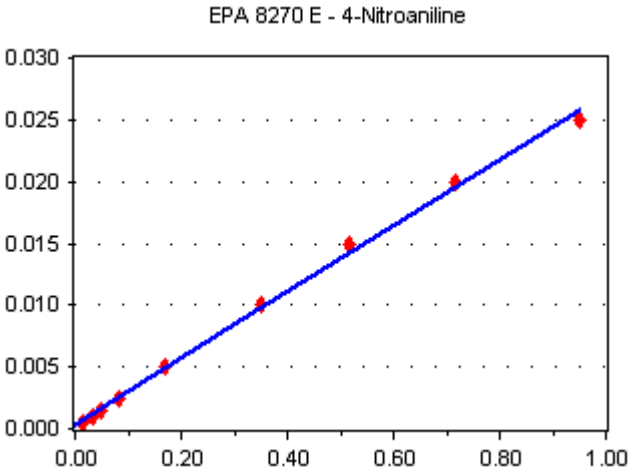
[Conc] = 59.84157 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

4-Nitroaniline

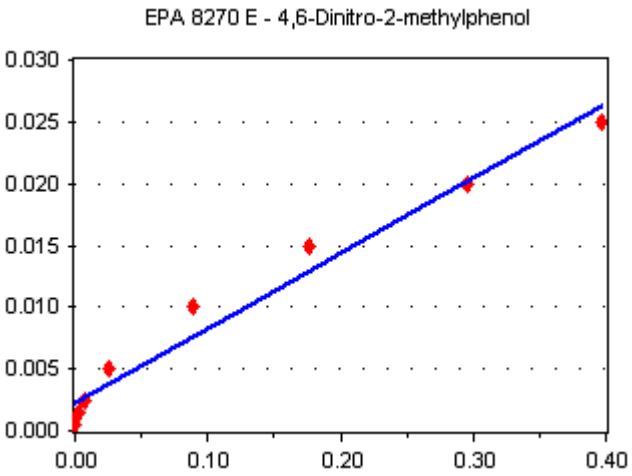


Linear Regression

r2: 0.9974339

[Conc] = 2.681253E-02 * [Response] + 3.484228E-04

4,6-Dinitro-2-methylphenol

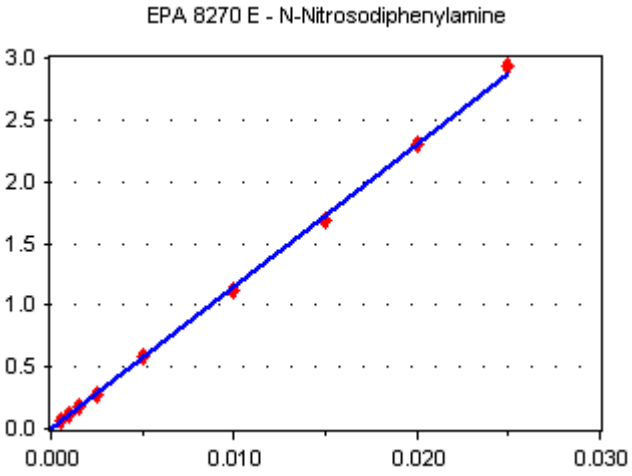


Linear Regression

r2: 0.9717228

[Conc] = 6.069043E-02 * [Response] + 2.240236E-03

N-Nitrosodiphenylamine



Average RF

RF RSD: 2.207946

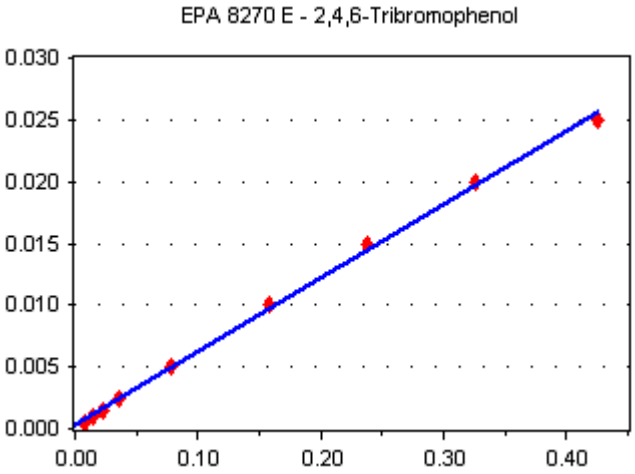
[Conc] = 114.6495 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

2,4,6-Tribromophenol

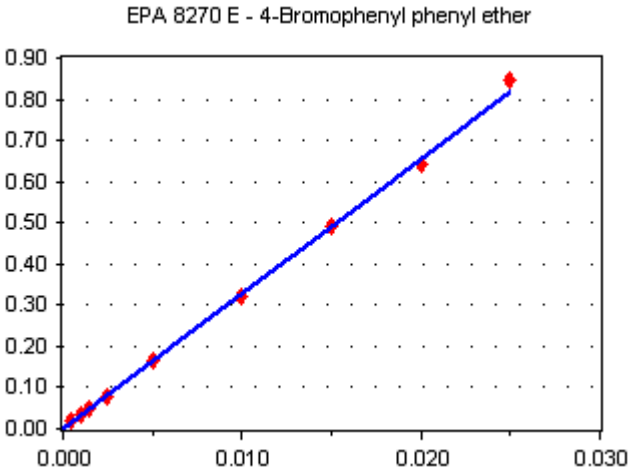


Linear Regression

r2: 0.9987448

[Conc] = 5.944419E-02 * [Response] + 3.148648E-04

4-Bromophenyl phenyl ether

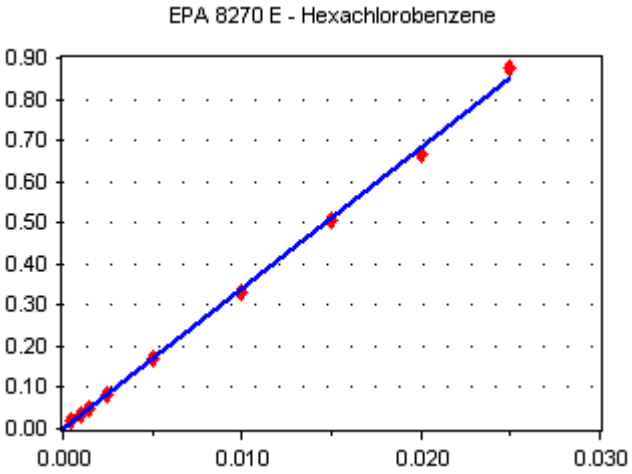


Average RF

RF RSD: 3.434869

[Conc] = 32.75595 * [Response]

Hexachlorobenzene



Average RF

RF RSD: 2.836503

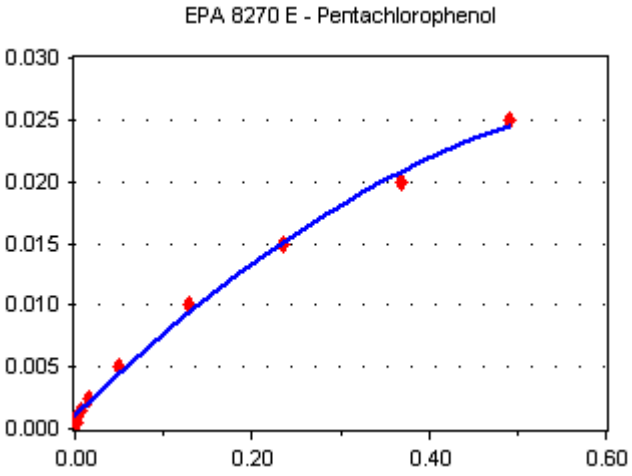
[Conc] = 34.14102 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Pentachlorophenol

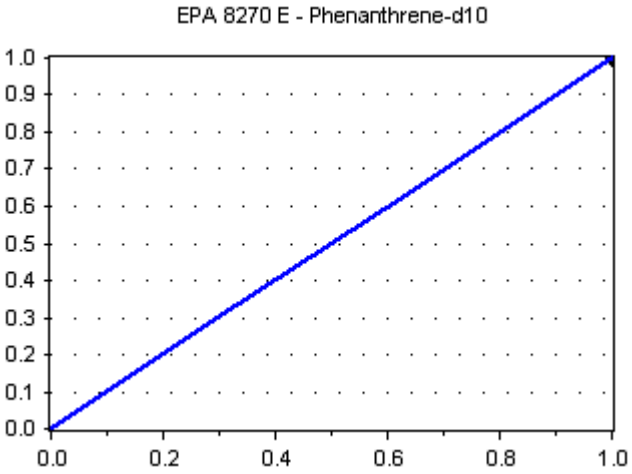


Quadratic Regression

Not Specified

Not Specified

Phenanthrene-d10

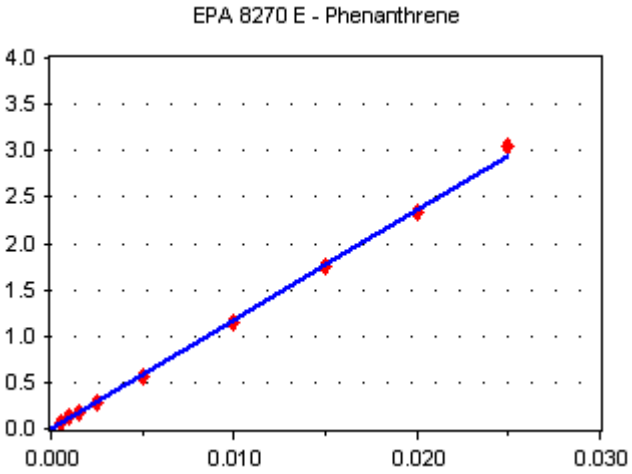


Average RF

RF RSD: 0

[Conc] = 1 * [Response]

Phenanthrene



Average RF

RF RSD: 3.030953

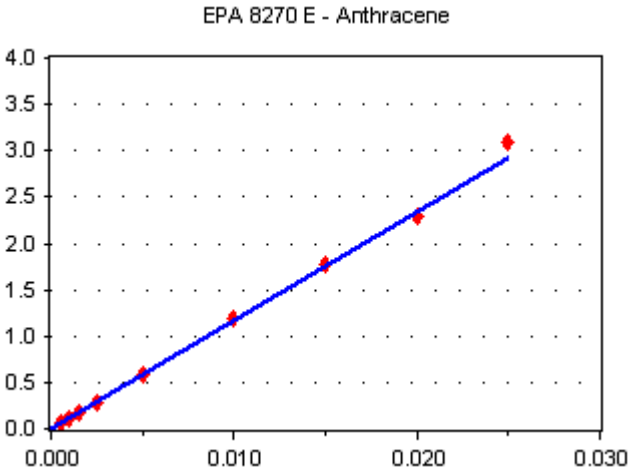
[Conc] = 117.5842 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Anthracene

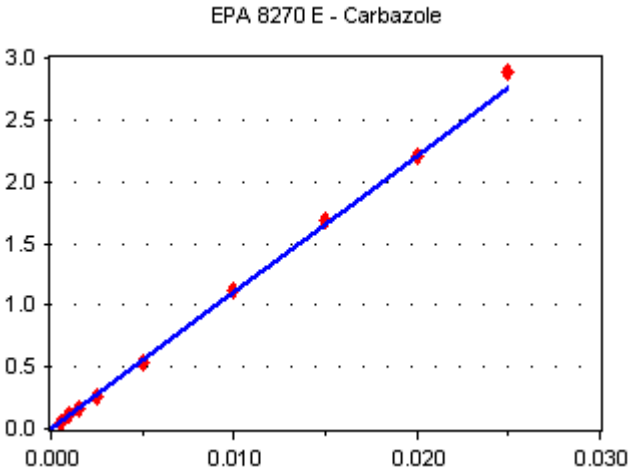


Average RF

RF RSD: 3.187946

[Conc] = 116.7787 * [Response]

Carbazole

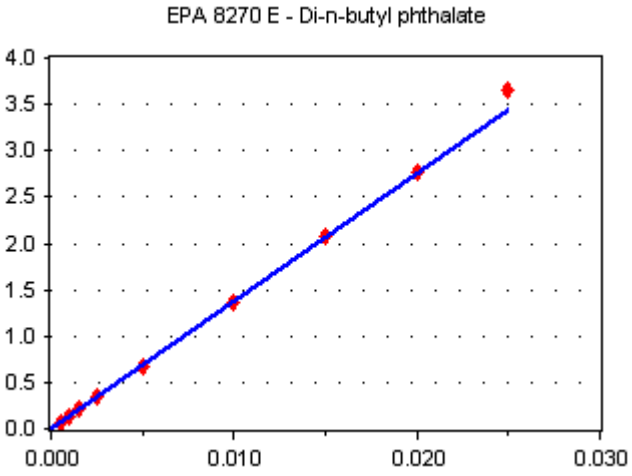


Average RF

RF RSD: 2.890854

[Conc] = 109.9766 * [Response]

Di-n-butyl phthalate



Average RF

RF RSD: 2.888963

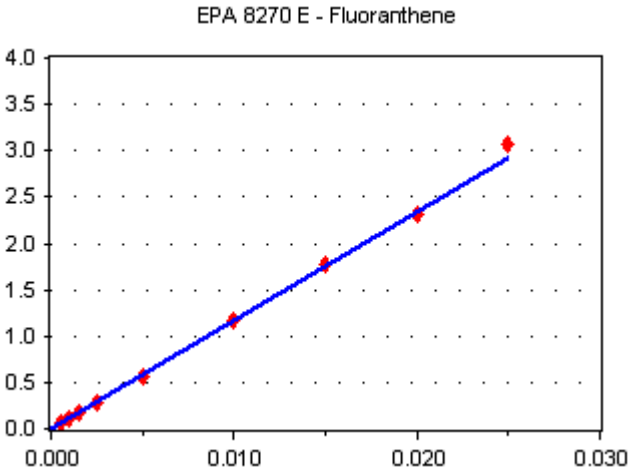
[Conc] = 137.4648 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Fluoranthene

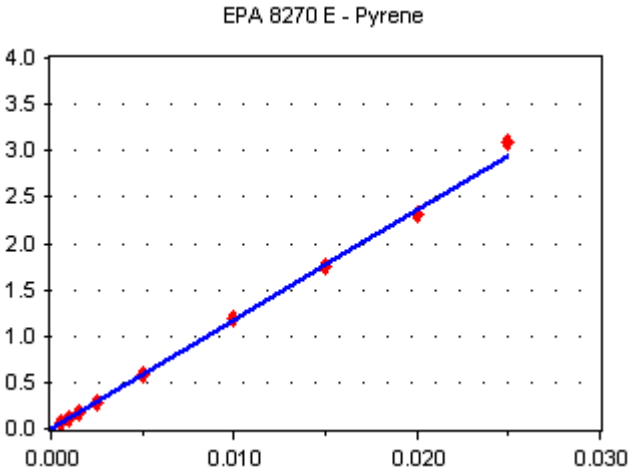


Average RF

RF RSD: 3.456509

[Conc] = 116.6673 * [Response]

Pyrene

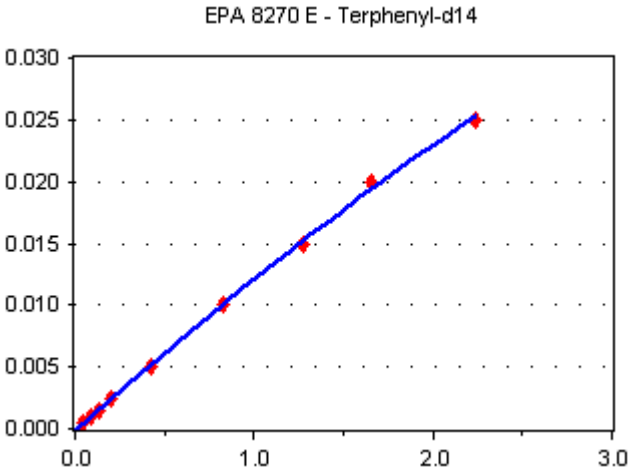


Average RF

RF RSD: 2.731507

[Conc] = 117.9857 * [Response]

Terphenyl-d14



Quadratic Regression

Not Specified

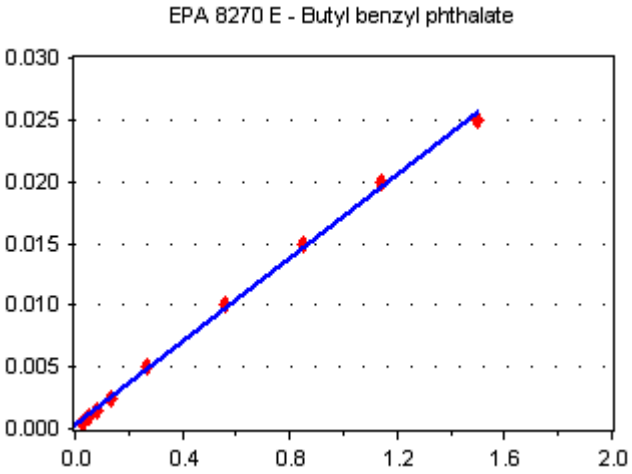
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Butyl benzyl phthalate

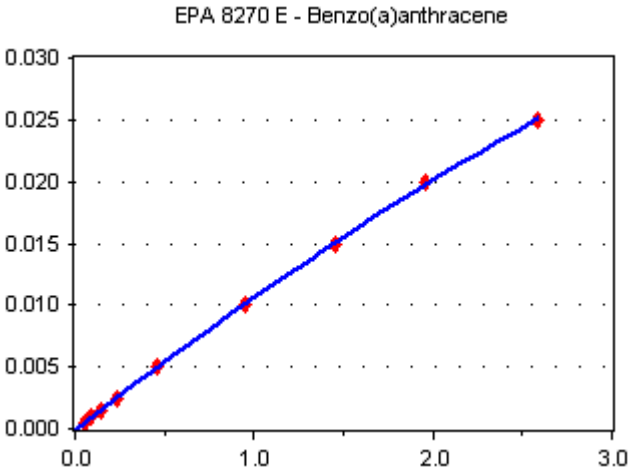


Linear Regression

r2: 0.9986558

[Conc] = 1.692785E-02 * [Response] + 2.632865E-04

Benzo(a)anthracene

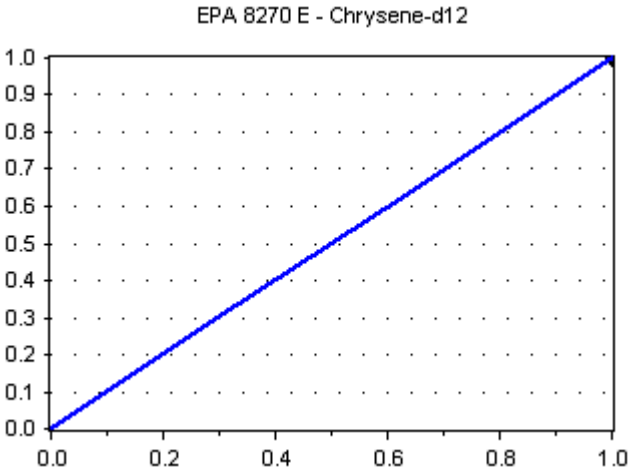


Quadratic Regression

Not Specified

Not Specified

Chrysene-d12



Average RF

RF RSD: 0

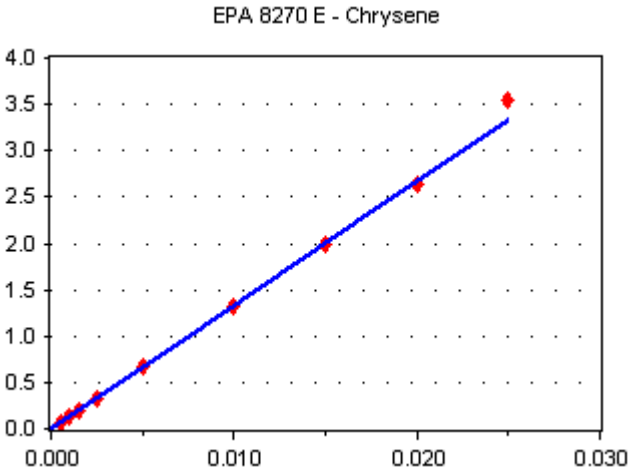
[Conc] = 1 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Chrysene

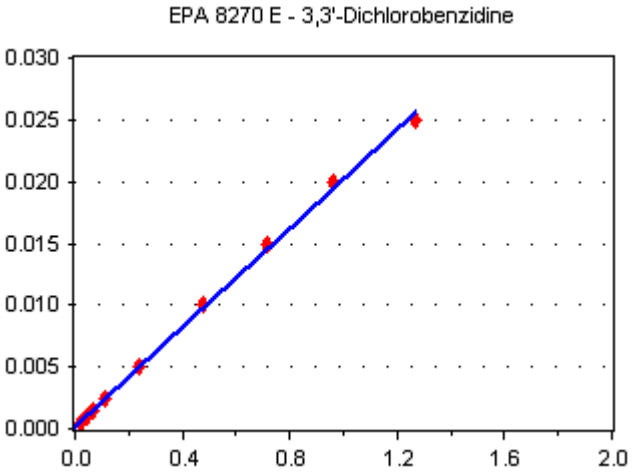


Average RF

RF RSD: 2.801013

[Conc] = 133.2257 * [Response]

3,3'-Dichlorobenzidine

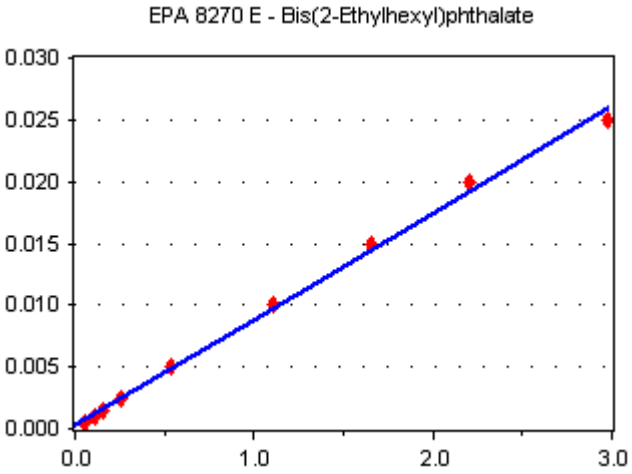


Linear Regression

r2: 0.9985524

[Conc] = 2.000787E-02 * [Response] + 2.411684E-04

Bis(2-Ethylhexyl)phthalate



Linear Regression

r2: 0.9972419

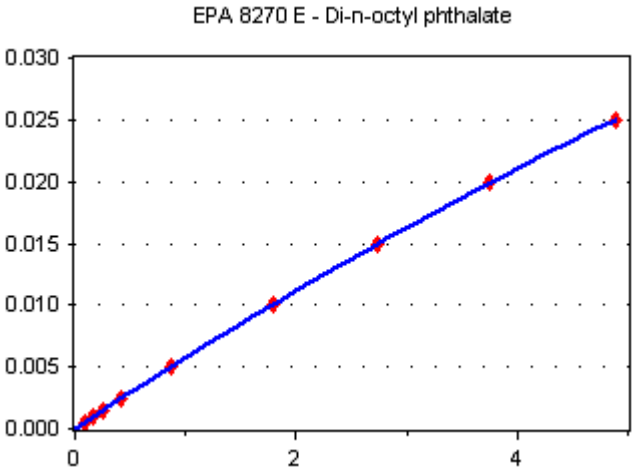
[Conc] = 8.589563E-03 * [Response] + 2.892768E-04

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Di-n-octyl phthalate

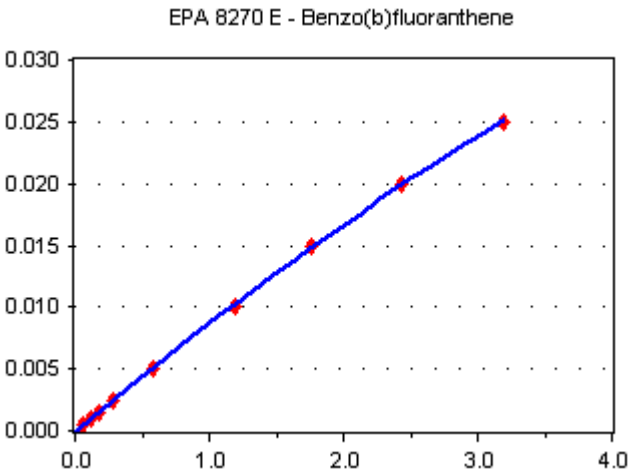


Quadratic Regression

Not Specified

Not Specified

Benzo(b)fluoranthene

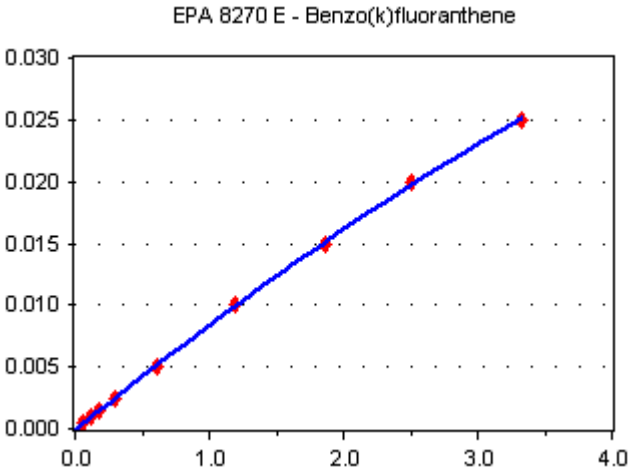


Quadratic Regression

Not Specified

Not Specified

Benzo(k)fluoranthene



Quadratic Regression

Not Specified

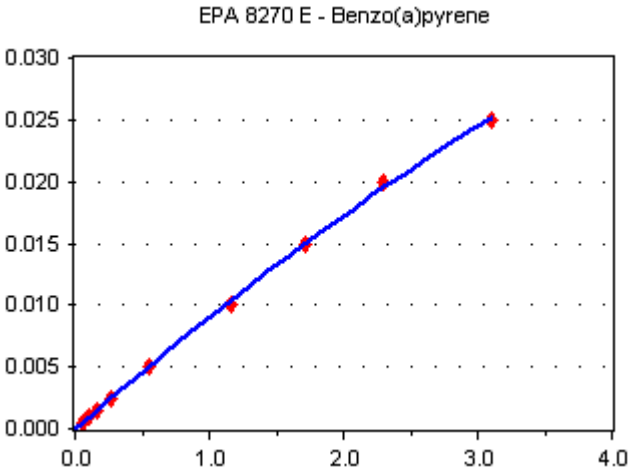
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Benzo(a)pyrene

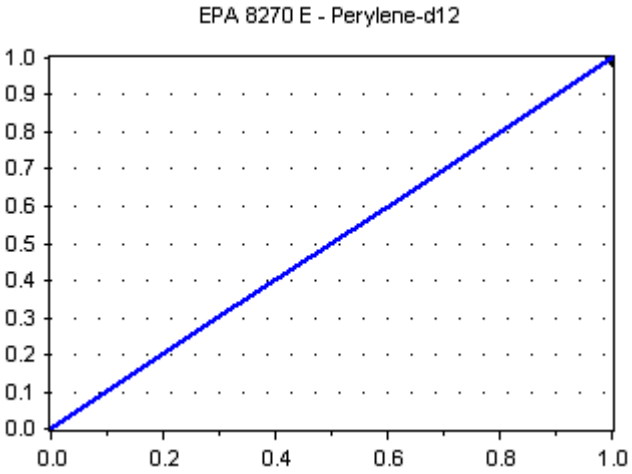


Quadratic Regression

Not Specified

Not Specified

Perylene-d12

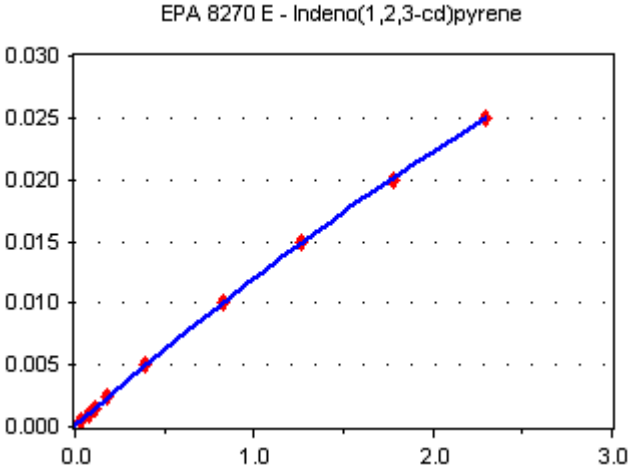


Average RF

RF RSD: 0

[Conc] = 1 * [Response]

Indeno(1,2,3-cd)pyrene



Quadratic Regression

Not Specified

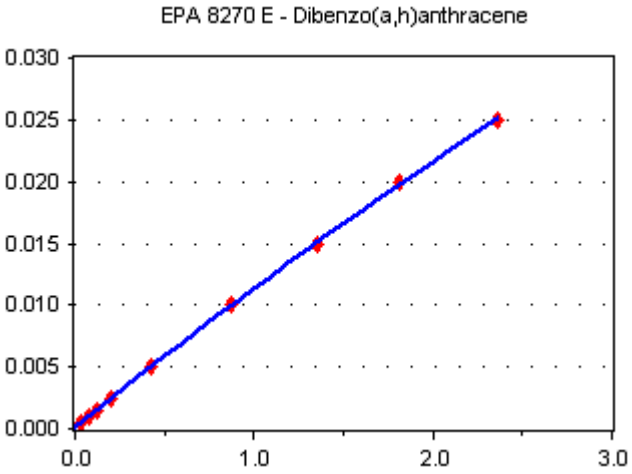
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation04	Calibration Date:	09/01/2023 17:06 By VMI
Calibration ID:	L335005	Last Edit Date:	01/19/2024 15:40 By MDV

EPA 8270 E

Dibenzo(a,h)anthracene

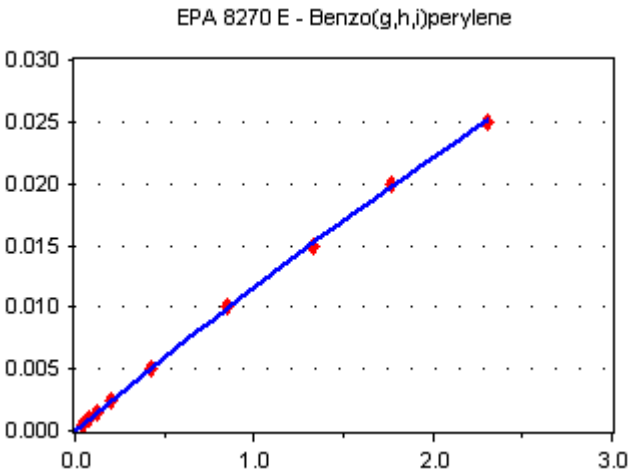


Quadratic Regression

Not Specified

Not Specified

Benzo(g,h,i)perylene



Quadratic Regression

Not Specified

Not Specified

LONG
ISLAND
ANALYTICAL
LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

QC DATA

110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341004-BLK1	File ID:	B341004-BLK1.D
Sampled:		Prepared:	10/09/23 08:46	Analyzed:	10/11/23 19:52
Solids:		Preparation:	EPA 3510 C	Dilution:	
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
110-86-1	Pyridine	10.0	U
62-75-9	N-Nitrosodimethylamine	5.00	U
108-95-2	Phenol	5.00	U
62-53-3	Aniline	5.00	U
95-57-8	2-Chlorophenol	5.00	U
111-44-4	Bis(2-Chloroethyl)ether	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
100-51-6	Benzyl alcohol	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
95-48-7	2-Methylphenol	5.00	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	5.00	U
67-72-1	Hexachloroethane	5.00	U
108-39-4/106-44-5	3/4-Methylphenol (m-Cresol/p-Cresol)	5.00	U
621-64-7	N-Nitroso-di-n-propylamine	5.00	U
98-95-3	Nitrobenzene	5.00	U
78-59-1	Isophorone	5.00	4.K, U
88-75-5	2-Nitrophenol	5.00	4.J, U
105-67-9	2,4-Dimethylphenol	5.00	U
65-85-0	Benzoic Acid	10.0	4.J, U
111-91-1	bis(2-Chloroethoxy)methane	5.00	4.K, U
120-83-2	2,4-Dichlorophenol	5.00	U
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	5.00	U

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	B341004-BLK1	File ID:	B341004-BLK1.D
Sampled:		Prepared:	10/09/23 08:46	Analyzed:	10/11/23 19:52
Solids:		Preparation:	EPA 3510 C	Dilution:	
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
106-47-8	4-Chloroaniline	5.00	U
87-68-3	Hexachlorobutadiene	5.00	U
59-50-7	4-Chloro-3-methylphenol	5.00	U
91-57-6	2-Methylnaphthalene	5.00	U
77-47-4	Hexachlorocyclopentadiene	5.00	U
88-06-2	2,4,6-Trichlorophenol	5.00	U
95-95-4	2,4,5-Trichlorophenol	5.00	U
91-58-7	2-Chloronaphthalene	5.00	4.K, U
88-74-4	2-Nitroaniline	5.00	U
131-11-3	Dimethyl phthalate	5.00	4.K, U
208-96-8	Acenaphthylene	5.00	4.K, U
606-20-2	2,6-Dinitrotoluene	5.00	4.K, U
99-09-2	3-Nitroaniline	5.00	U
83-32-9	Acenaphthene	5.00	U
51-28-5	2,4-Dinitrophenol	10.0	U
132-64-9	Dibenzofuran	5.00	U
100-02-7	4-Nitrophenol	5.00	4.K, U
121-14-2	2,4-Dinitrotoluene	5.00	U
86-73-7	Fluorene	5.00	U
84-66-2	Diethyl phthalate	5.00	4.K, U
7005-72-3	4-Chlorophenyl phenyl ether	5.00	U
100-01-6	4-Nitroaniline	5.00	4.K, U
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U
86-30-6	N-Nitrosodiphenylamine	5.00	4.K, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341004-BLK1	File ID:	B341004-BLK1.D
Sampled:		Prepared:	10/09/23 08:46	Analyzed:	10/11/23 19:52
Solids:		Preparation:	EPA 3510 C	Dilution:	
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
101-55-3	4-Bromophenyl phenyl ether	5.00	4.K, U
118-74-1	Hexachlorobenzene	5.00	4.K, U
87-86-5	Pentachlorophenol	5.00	4.K, U
85-01-8	Phenanthrene	5.00	U
120-12-7	Anthracene	5.00	U
86-74-8	Carbazole	5.00	U
84-74-2	Di-n-butyl phthalate	5.00	4.K, U
206-44-0	Fluoranthene	5.00	4.K, U
129-00-0	Pyrene	5.00	4.K, U
85-68-7	Butyl benzyl phthalate	5.00	4.K, U
56-55-3	Benzo(a)anthracene	5.00	4.K, U
218-01-9	Chrysene	5.00	U
91-94-1	3,3'-Dichlorobenzidine	5.00	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5.00	U
117-84-0	Di-n-octyl phthalate	5.00	U
205-99-2	Benzo(b)fluoranthene	5.00	U
207-08-9	Benzo(k)fluoranthene	5.00	4.K, U
50-32-8	Benzo(a)pyrene	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	4.J, U
53-70-3	Dibenzo(a,h)anthracene	5.00	4.J, U
191-24-2	Benzo(g,h,i)perylene	5.00	4.J, U
122-66-7/103-33-3	1,2-Diphenylhydrazine/Azobenzene	5.00	U
124-18-5	n-Decane	10.0	4.J, U
593-45-3	n-Octadecane	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341004-BS1	File ID:	B341004-BS1.D
Sampled:		Prepared:	10/09/23 08:46	Analyzed:	10/11/23 20:35
Solids:		Preparation:	EPA 3510 C	Dilution:	
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
110-86-1	Pyridine	47.4	
62-75-9	N-Nitrosodimethylamine	53.1	
108-95-2	Phenol	42.4	
62-53-3	Aniline	27.0	
95-57-8	2-Chlorophenol	55.8	
111-44-4	Bis(2-Chloroethyl)ether	57.6	
541-73-1	1,3-Dichlorobenzene	56.1	
106-46-7	1,4-Dichlorobenzene	56.9	
100-51-6	Benzyl alcohol	68.8	
95-50-1	1,2-Dichlorobenzene	58.1	
95-48-7	2-Methylphenol	55.9	
108-60-1	2,2'-Oxybis(1-Chloropropane)	58.2	
67-72-1	Hexachloroethane	52.4	
108-39-4/106-44-5	3/4-Methylphenol (m-Cresol/p-Cresol)	59.0	
621-64-7	N-Nitroso-di-n-propylamine	77.6	
98-95-3	Nitrobenzene	57.1	
78-59-1	Isophorone	88.6	4.K
88-75-5	2-Nitrophenol	75.7	4.J
105-67-9	2,4-Dimethylphenol	60.3	
65-85-0	Benzoic Acid	62.1	4.J
111-91-1	bis(2-Chloroethoxy)methane	78.0	4.K
120-83-2	2,4-Dichlorophenol	74.7	
120-82-1	1,2,4-Trichlorobenzene	69.9	
91-20-3	Naphthalene	60.7	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341004-BS1	File ID:	B341004-BS1.D
Sampled:		Prepared:	10/09/23 08:46	Analyzed:	10/11/23 20:35
Solids:		Preparation:	EPA 3510 C	Dilution:	
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
106-47-8	4-Chloroaniline	14.4	
87-68-3	Hexachlorobutadiene	56.2	
59-50-7	4-Chloro-3-methylphenol	79.0	
91-57-6	2-Methylnaphthalene	70.2	
77-47-4	Hexachlorocyclopentadiene	52.0	
88-06-2	2,4,6-Trichlorophenol	87.8	
95-95-4	2,4,5-Trichlorophenol	94.3	
91-58-7	2-Chloronaphthalene	78.5	4.K
88-74-4	2-Nitroaniline	101	
131-11-3	Dimethyl phthalate	116	4.K, 4.M
208-96-8	Acenaphthylene	90.1	4.K
606-20-2	2,6-Dinitrotoluene	116	4.K, 4.M
99-09-2	3-Nitroaniline	12.0	4.N
83-32-9	Acenaphthene	64.0	
51-28-5	2,4-Dinitrophenol	83.7	
132-64-9	Dibenzofuran	69.7	
100-02-7	4-Nitrophenol	85.5	4.K
121-14-2	2,4-Dinitrotoluene	110	
86-73-7	Fluorene	76.6	
84-66-2	Diethyl phthalate	91.9	4.K
7005-72-3	4-Chlorophenyl phenyl ether	76.8	
100-01-6	4-Nitroaniline	29.1	4.K
534-52-1	4,6-Dinitro-2-methylphenol	112	
86-30-6	N-Nitrosodiphenylamine	63.2	4.K

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341004-BS1	File ID:	B341004-BS1.D
Sampled:		Prepared:	10/09/23 08:46	Analyzed:	10/11/23 20:35
Solids:		Preparation:	EPA 3510 C	Dilution:	
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
101-55-3	4-Bromophenyl phenyl ether	88.7	4.K
118-74-1	Hexachlorobenzene	95.4	4.K
87-86-5	Pentachlorophenol	127	4.K, 4.M
85-01-8	Phenanthrene	71.9	
120-12-7	Anthracene	72.5	
86-74-8	Carbazole	80.6	
84-74-2	Di-n-butyl phthalate	98.4	4.K
206-44-0	Fluoranthene	98.3	4.K
129-00-0	Pyrene	104	4.K, 4.M
85-68-7	Butyl benzyl phthalate	152	4.K, 4.M
56-55-3	Benzo(a)anthracene	151	4.K, 4.M
218-01-9	Chrysene	75.2	
91-94-1	3,3'-Dichlorobenzidine	5.00	4.N, U
117-81-7	Bis(2-Ethylhexyl)phthalate	84.8	
117-84-0	Di-n-octyl phthalate	106	
205-99-2	Benzo(b)fluoranthene	87.0	
207-08-9	Benzo(k)fluoranthene	84.4	4.K
50-32-8	Benzo(a)pyrene	84.2	
193-39-5	Indeno(1,2,3-cd)pyrene	64.5	4.J
53-70-3	Dibenzo(a,h)anthracene	62.8	4.J
191-24-2	Benzo(g,h,i)perylene	56.5	4.J
122-66-7/103-33-3	1,2-Diphenylhydrazine/Azobenzene	78.6	
124-18-5	n-Decane	43.8	4.J
593-45-3	n-Octadecane	78.0	

LONG ISLAND ANALYTICAL LABORATORIES INC.
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PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	B341004-MS1	File ID:	B341004-MS1.D
Sampled:		Prepared:	10/09/23 08:46	Analyzed:	10/11/23 21:17
Solids:		Preparation:	EPA 3510 C	Dilution:	
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
110-86-1	Pyridine	36.0	4.T
62-75-9	N-Nitrosodimethylamine	45.5	4.T
108-95-2	Phenol	42.5	4.T
62-53-3	Aniline	28.8	4.T
95-57-8	2-Chlorophenol	50.9	4.T
111-44-4	Bis(2-Chloroethyl)ether	52.9	4.T
541-73-1	1,3-Dichlorobenzene	48.0	4.T
106-46-7	1,4-Dichlorobenzene	49.3	4.T
100-51-6	Benzyl alcohol	63.1	4.T
95-50-1	1,2-Dichlorobenzene	51.7	4.T
95-48-7	2-Methylphenol	60.6	4.T
108-60-1	2,2'-Oxybis(1-Chloropropane)	52.1	4.T
67-72-1	Hexachloroethane	45.2	4.T
108-39-4/106-44-5	3/4-Methylphenol (m-Cresol/p-Cresol)	62.5	4.T
621-64-7	N-Nitroso-di-n-propylamine	73.6	4.T
98-95-3	Nitrobenzene	53.4	4.T
78-59-1	Isophorone	85.2	4.K, 4.T
88-75-5	2-Nitrophenol	69.4	4.J, 4.T
105-67-9	2,4-Dimethylphenol	70.3	4.T
65-85-0	Benzoic Acid	16.2	4.J, 4.T
111-91-1	bis(2-Chloroethoxy)methane	74.4	4.K, 4.T
120-83-2	2,4-Dichlorophenol	71.3	4.T
120-82-1	1,2,4-Trichlorobenzene	62.2	4.T
91-20-3	Naphthalene	56.0	4.T

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	B341004-MS1	File ID:	B341004-MS1.D
Sampled:		Prepared:	10/09/23 08:46	Analyzed:	10/11/23 21:17
Solids:		Preparation:	EPA 3510 C	Dilution:	
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Column:	1				

Instrument: ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
106-47-8	4-Chloroaniline	21.6	4.T, 4.V
87-68-3	Hexachlorobutadiene	51.4	4.T
59-50-7	4-Chloro-3-methylphenol	81.1	4.T
91-57-6	2-Methylnaphthalene	66.6	4.T
77-47-4	Hexachlorocyclopentadiene	45.1	4.T
88-06-2	2,4,6-Trichlorophenol	85.9	4.T
95-95-4	2,4,5-Trichlorophenol	89.6	4.T
91-58-7	2-Chloronaphthalene	76.6	4.K, 4.T
88-74-4	2-Nitroaniline	100	4.T
131-11-3	Dimethyl phthalate	116	4.T, 4.K, 4.U
208-96-8	Acenaphthylene	88.4	4.K, 4.T
606-20-2	2,6-Dinitrotoluene	117	4.K, 4.T, 4.U
99-09-2	3-Nitroaniline	18.3	4.T
83-32-9	Acenaphthene	62.5	4.T
51-28-5	2,4-Dinitrophenol	62.7	4.T
132-64-9	Dibenzofuran	67.8	4.T
100-02-7	4-Nitrophenol	80.8	4.K, 4.T
121-14-2	2,4-Dinitrotoluene	109	4.T
86-73-7	Fluorene	74.1	4.T
84-66-2	Diethyl phthalate	90.2	4.T, 4.K
7005-72-3	4-Chlorophenyl phenyl ether	74.6	4.T
100-01-6	4-Nitroaniline	36.4	4.K, 4.T
534-52-1	4,6-Dinitro-2-methylphenol	101	4.T
86-30-6	N-Nitrosodiphenylamine	87.4	4.K

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
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PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341004-MS1	File ID:	B341004-MS1.D
Sampled:		Prepared:	10/09/23 08:46	Analyzed:	10/11/23 21:17
Solids:		Preparation:	EPA 3510 C	Dilution:	
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Column:	1				

Instrument: ChemStation04

CAS NO.	COMPOUND	CONC. (ug/L)	Q
101-55-3	4-Bromophenyl phenyl ether	86.3	4.K, 4.T
118-74-1	Hexachlorobenzene	90.5	4.K, 4.T
87-86-5	Pentachlorophenol	121	4.K, 4.T, 4.U
85-01-8	Phenanthrene	69.0	4.T
120-12-7	Anthracene	70.0	4.T
86-74-8	Carbazole	79.9	4.T
84-74-2	Di-n-butyl phthalate	93.3	4.T, 4.K
206-44-0	Fluoranthene	95.8	4.K, 4.T
129-00-0	Pyrene	100	4.K, 4.T
85-68-7	Butyl benzyl phthalate	146	4.K, 4.T, 4.U
56-55-3	Benzo(a)anthracene	145	4.K, 4.T, 4.U
218-01-9	Chrysene	71.3	4.T
91-94-1	3,3'-Dichlorobenzidine	15.5	4.T
117-81-7	Bis(2-Ethylhexyl)phthalate	81.0	4.T
117-84-0	Di-n-octyl phthalate	102	4.T
205-99-2	Benzo(b)fluoranthene	84.7	4.T
207-08-9	Benzo(k)fluoranthene	81.2	4.K, 4.T
50-32-8	Benzo(a)pyrene	84.6	4.T
193-39-5	Indeno(1,2,3-cd)pyrene	60.9	4.J, 4.T, 4.V
53-70-3	Dibenzo(a,h)anthracene	59.7	4.J, 4.T, 4.V
191-24-2	Benzo(g,h,i)perylene	55.5	4.J, 4.T, 4.V
122-66-7/103-33-3	1,2-Diphenylhydrazine/Azobenzene	75.8	
124-18-5	n-Decane	38.2	4.J, 4.V, 4.T
593-45-3	n-Octadecane	74.1	4.T, 4.V

LONG ISLAND ANALYTICAL LABORATORIES INC.
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NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341004-MSD1	File ID:	B341004-MSD1.D
Sampled:		Prepared:	10/09/23 08:46	Analyzed:	10/11/23 21:59
Solids:		Preparation:	EPA 3510 C	Dilution:	
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
110-86-1	Pyridine	28.6	4.T
62-75-9	N-Nitrosodimethylamine	29.1	4.T
108-95-2	Phenol	24.6	4.T
62-53-3	Aniline	12.2	4.T
95-57-8	2-Chlorophenol	31.4	4.T
111-44-4	Bis(2-Chloroethyl)ether	31.8	4.T
541-73-1	1,3-Dichlorobenzene	30.5	4.T
106-46-7	1,4-Dichlorobenzene	30.9	4.T
100-51-6	Benzyl alcohol	37.9	4.T
95-50-1	1,2-Dichlorobenzene	32.0	4.T
95-48-7	2-Methylphenol	36.8	4.T
108-60-1	2,2'-Oxybis(1-Chloropropane)	32.4	4.T
67-72-1	Hexachloroethane	28.6	4.T
108-39-4/106-44-5	3/4-Methylphenol (m-Cresol/p-Cresol)	37.0	4.T
621-64-7	N-Nitroso-di-n-propylamine	44.4	4.T
98-95-3	Nitrobenzene	34.0	4.T
78-59-1	Isophorone	50.7	4.K, 4.T
88-75-5	2-Nitrophenol	42.3	4.J, 4.T
105-67-9	2,4-Dimethylphenol	39.2	4.T
65-85-0	Benzoic Acid	23.1	4.J, 4.T
111-91-1	bis(2-Chloroethoxy)methane	44.1	4.K, 4.T
120-83-2	2,4-Dichlorophenol	42.6	4.T
120-82-1	1,2,4-Trichlorobenzene	37.8	4.T
91-20-3	Naphthalene	33.6	4.T

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
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1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341004-MSD1	File ID:	B341004-MSD1.D
Sampled:		Prepared:	10/09/23 08:46	Analyzed:	10/11/23 21:59
Solids:		Preparation:	EPA 3510 C	Dilution:	
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
106-47-8	4-Chloroaniline	4.76	4.T, 4.V, U
87-68-3	Hexachlorobutadiene	31.6	4.T
59-50-7	4-Chloro-3-methylphenol	46.5	4.T
91-57-6	2-Methylnaphthalene	39.4	4.T
77-47-4	Hexachlorocyclopentadiene	25.5	4.T
88-06-2	2,4,6-Trichlorophenol	50.2	4.T
95-95-4	2,4,5-Trichlorophenol	53.4	4.T
91-58-7	2-Chloronaphthalene	44.8	4.K, 4.T
88-74-4	2-Nitroaniline	58.6	4.T
131-11-3	Dimethyl phthalate	68.7	4.K, 4.T, 4.U
208-96-8	Acenaphthylene	51.6	4.K, 4.T
606-20-2	2,6-Dinitrotoluene	69.0	4.K, 4.T, 4.U
99-09-2	3-Nitroaniline	5.64	4.T
83-32-9	Acenaphthene	37.2	4.T
51-28-5	2,4-Dinitrophenol	38.1	4.T
132-64-9	Dibenzofuran	40.2	4.T
100-02-7	4-Nitrophenol	47.7	4.K, 4.T
121-14-2	2,4-Dinitrotoluene	68.7	4.T
86-73-7	Fluorene	43.6	4.T
84-66-2	Diethyl phthalate	52.4	4.K, 4.T
7005-72-3	4-Chlorophenyl phenyl ether	44.7	4.T
100-01-6	4-Nitroaniline	22.9	4.K, 4.T
534-52-1	4,6-Dinitro-2-methylphenol	55.7	4.T
86-30-6	N-Nitrosodiphenylamine	50.4	4.K

LONG ISLAND ANALYTICAL LABORATORIES INC.
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1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341004-MSD1	File ID:	B341004-MSD1.D
Sampled:		Prepared:	10/09/23 08:46	Analyzed:	10/11/23 21:59
Solids:		Preparation:	EPA 3510 C	Dilution:	
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
101-55-3	4-Bromophenyl phenyl ether	52.8	4.K, 4.T
118-74-1	Hexachlorobenzene	55.8	4.K, 4.T
87-86-5	Pentachlorophenol	72.4	4.K, 4.T, 4.U
85-01-8	Phenanthrene	41.9	4.T
120-12-7	Anthracene	42.5	4.T
86-74-8	Carbazole	48.9	4.T
84-74-2	Di-n-butyl phthalate	57.7	4.K, 4.T
206-44-0	Fluoranthene	57.6	4.K, 4.T
129-00-0	Pyrene	59.0	4.K, 4.T
85-68-7	Butyl benzyl phthalate	90.1	4.K, 4.T, 4.U
56-55-3	Benzo(a)anthracene	85.7	4.K, 4.T, 4.U
218-01-9	Chrysene	43.2	4.T
91-94-1	3,3'-Dichlorobenzidine	3.68	4.T, U
117-81-7	Bis(2-Ethylhexyl)phthalate	50.1	4.T
117-84-0	Di-n-octyl phthalate	60.0	4.T
205-99-2	Benzo(b)fluoranthene	51.6	4.T
207-08-9	Benzo(k)fluoranthene	49.6	4.K, 4.T
50-32-8	Benzo(a)pyrene	51.0	4.T
193-39-5	Indeno(1,2,3-cd)pyrene	37.0	4.J, 4.T, 4.V
53-70-3	Dibenzo(a,h)anthracene	36.3	4.J, 4.V, 4.T
191-24-2	Benzo(g,h,i)perylene	33.5	4.J, 4.T, 4.V
122-66-7/103-33-3	1,2-Diphenylhydrazine/Azobenzene	44.5	
124-18-5	n-Decane	25.3	4.J, 4.V, 4.T
593-45-3	n-Octadecane	46.2	4.T, 4.V

LONG ISLAND ANALYTICAL LABORATORIES INC.
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NYSDOH ELAP# 11693
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NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 00:06
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
110-86-1	Pyridine	10.0	4.T, U
62-75-9	N-Nitrosodimethylamine	5.00	4.T, U
108-95-2	Phenol	5.00	4.T, U
62-53-3	Aniline	5.00	4.T, U
95-57-8	2-Chlorophenol	5.00	4.T, U
111-44-4	Bis(2-Chloroethyl)ether	5.00	4.T, U
541-73-1	1,3-Dichlorobenzene	5.00	4.T, U
106-46-7	1,4-Dichlorobenzene	5.00	4.T, U
100-51-6	Benzyl alcohol	5.00	4.T, U
95-50-1	1,2-Dichlorobenzene	5.00	4.T, U
95-48-7	2-Methylphenol	5.00	4.T, U
108-60-1	2,2'-Oxybis(1-Chloropropane)	5.00	4.T, U
67-72-1	Hexachloroethane	5.00	4.T, U
108-39-4/106-44-5	3/4-Methylphenol (m-Cresol/p-Cresol)	5.00	4.T, U
621-64-7	N-Nitroso-di-n-propylamine	5.00	4.T, U
98-95-3	Nitrobenzene	5.00	4.T, U
78-59-1	Isophorone	5.00	4.K, 4.T, U
88-75-5	2-Nitrophenol	5.00	4.J, 4.T, U
105-67-9	2,4-Dimethylphenol	5.00	4.T, U
65-85-0	Benzoic Acid	10.0	4.J, 4.T, U
111-91-1	bis(2-Chloroethoxy)methane	5.00	4.K, 4.T, U
120-83-2	2,4-Dichlorophenol	5.00	4.T, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
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NYSDOH ELAP# 11693
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AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 00:06
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
120-82-1	1,2,4-Trichlorobenzene	5.00	4.T, U
91-20-3	Naphthalene	5.00	4.T, U
106-47-8	4-Chloroaniline	5.00	4.T, 4.V, U
87-68-3	Hexachlorobutadiene	5.00	4.T, U
59-50-7	4-Chloro-3-methylphenol	5.00	4.T, U
91-57-6	2-Methylnaphthalene	5.00	4.T, U
77-47-4	Hexachlorocyclopentadiene	5.00	4.T, U
88-06-2	2,4,6-Trichlorophenol	5.00	4.T, U
95-95-4	2,4,5-Trichlorophenol	5.00	4.T, U
91-58-7	2-Chloronaphthalene	5.00	4.K, 4.T, U
88-74-4	2-Nitroaniline	5.00	4.T, U
131-11-3	Dimethyl phthalate	5.00	4.K, 4.U, 4.T, U
208-96-8	Acenaphthylene	5.00	4.K, 4.T, U
606-20-2	2,6-Dinitrotoluene	5.00	4.K, 4.T, 4.U, U
99-09-2	3-Nitroaniline	5.00	4.T, U
83-32-9	Acenaphthene	5.00	4.T, U
51-28-5	2,4-Dinitrophenol	10.0	4.T, U
132-64-9	Dibenzofuran	5.00	4.T, U
100-02-7	4-Nitrophenol	5.00	4.K, 4.T, U
121-14-2	2,4-Dinitrotoluene	5.00	4.T, U
86-73-7	Fluorene	5.00	4.T, U
84-66-2	Diethyl phthalate	5.00	4.K, 4.T, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 00:06
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7005-72-3	4-Chlorophenyl phenyl ether	5.00	4.T, U
100-01-6	4-Nitroaniline	5.00	4.K, 4.T, U
534-52-1	4,6-Dinitro-2-methylphenol	10.0	4.T, U
86-30-6	N-Nitrosodiphenylamine	5.00	4.K, U
101-55-3	4-Bromophenyl phenyl ether	5.00	4.K, 4.T, U
118-74-1	Hexachlorobenzene	5.00	4.K, 4.T, U
87-86-5	Pentachlorophenol	5.00	4.K, 4.U, 4.T, U
85-01-8	Phenanthrene	5.00	4.T, U
120-12-7	Anthracene	5.00	4.T, U
86-74-8	Carbazole	5.00	4.T, U
84-74-2	Di-n-butyl phthalate	5.00	4.K, 4.T, U
206-44-0	Fluoranthene	5.00	4.K, 4.T, U
129-00-0	Pyrene	5.00	4.K, 4.T, U
85-68-7	Butyl benzyl phthalate	5.00	4.K, 4.U, 4.T, U
56-55-3	Benzo(a)anthracene	5.00	4.K, 4.U, 4.T, U
218-01-9	Chrysene	5.00	4.T, U
91-94-1	3,3'-Dichlorobenzidine	5.00	4.T, U
117-81-7	Bis(2-Ethylhexyl)phthalate	5.00	4.T, U
117-84-0	Di-n-octyl phthalate	5.00	4.T, U
205-99-2	Benzo(b)fluoranthene	5.00	4.T, U
207-08-9	Benzo(k)fluoranthene	5.00	4.K, 4.T, U
50-32-8	Benzo(a)pyrene	5.00	4.T, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 08:46	Analyzed:	10/12/23 00:06
Solids:		Preparation:	EPA 3510 C	Dilution:	1
Batch:	B341004	Sequence:	S341002	Calibration:	L335005
Instrument:	ChemStation04				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	4.J, 4.V, 4.T, U
53-70-3	Dibenzo(a,h)anthracene	5.00	4.J, 4.V, 4.T, U
191-24-2	Benzo(g,h,i)perylene	5.00	4.J, 4.V, 4.T, U
122-66-7/103-33-3	1,2-Diphenylhydrazine/Azobenzene	5.00	U
124-18-5	n-Decane	10.0	4.J, 4.V, 4.T, U
593-45-3	n-Octadecane	5.00	4.V, 4.T, U

* Values outside of QC limits

110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10_2023\20231011\
Data File : B341004-BLK1.D
Acq On : 11 Oct 2023 19:52
Operator : JEM
Sample : B341004-BLK1
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 12 13:04:54 2023
Quant Method : C:\msdchem\1\methods\METHODS\SV231012.M
Quant Title : EPA 8270 Multi-Point Calibration
QLast Update : Thu Oct 12 12:24:29 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.603	152	172499	20.00 ppm		0.00
29) Naphthalene-d8	7.447	136	633117	20.00 ppm	#	0.00
44) Acenaphthene-d10	10.206	164	338769	20.00 ppm		0.00
63) Phenanthrene-d10	12.532	188	527482	20.00 ppm	#	0.00
73) Chrysene-d12	16.779	240	408250	20.00 ppm		0.00
81) Perylene-d12	19.283	264	400079	20.00 ppm		0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.081	112	239797	16.44 ppm		0.03
5) Phenol-d6	5.218	99	276813	16.47 ppm		0.01
20) Nitrobenzene-d5	6.421	82	291625	23.35 ppm		0.00
38) 2-Fluorobiphenyl	9.185	172	553851	27.34 ppm		0.00
58) 2,4,6-Tribromophenol	11.473	330	71915	39.32 ppm		0.00
70) Terphenyl-d14	15.166	244	688363	46.74 ppm		0.00
Target Compounds						Qvalue
2) Pyridine	0.000		0	N.D. d		
3) N-Nitrosodimethylamine	0.000		0	N.D.		
6) Phenol	5.232	94	1323	Below Cal	#	1
7) Aniline	0.000		0	N.D.		
8) 2-Chlorophenol	0.000		0	N.D.		
9) N-Decane	5.439	57	6790	0.37 ppm	#	57
10) Bis(2-chloroethyl)ether	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) Benzyl alcohol	5.844	108	1823	Below Cal	#	21
14) 1,2-Dichlorobenzene	0.000		0	N.D.		
15) 2-Methylphenol	5.844	108	1823	Below Cal	#	1
16) 2,2'-Oxybis(1-chloropr...	5.824	45	3031	Below Cal	#	7
17) Hexachloroethane	0.000		0	N.D.		
18) 3/4-Methylphenol	0.000		0	N.D.		
19) N-Nitroso-di-n-propyla...	6.234	70	7341	Below Cal	#	73
21) Nitrobenzene	6.421	77	2043	0.15 ppm	#	39
22) Isophorone	6.884	82	1246	Below Cal	#	66
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	0.000		0	N.D.		
25) Benzoic acid	0.000		0	N.D.		
26) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
30) Naphthalene	7.471	128	1814	Below Cal	#	69
31) 4-Chloroaniline	0.000		0	N.D.		
32) Hexachlorobutadiene	0.000		0	N.D.		
33) 4-Chloro-3-methylphenol	0.000		0	N.D.		
34) 2-Methylnaphthalene	8.545	142	1471	Below Cal	#	42
35) Hexachlorocyclopentadiene	0.000		0	N.D.		
36) 2,4,6-Trichlorophenol	0.000		0	N.D.		
37) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 2-Chloronaphthalene	9.484	162	3220	Below Cal	#	38

40) 2-Nitroaniline	9.484	65	1237	0.29 ppm	#	27
41) Dimethyl phthalate	0.000		0	N.D.		
42) Acenaphthylene	0.000		0	N.D.		
43) 2,6-Dinitrotoluene	0.000		0	N.D.		
45) 3-Nitroaniline	0.000		0	N.D.		
46) Acenaphthene	10.201	154	1110	Below Cal	#	9
47) 2,4-Dinitrophenol	0.000		0	N.D.		
48) Dibenzofuran	0.000		0	N.D.		
49) 4-Nitrophenol	10.794	65	1472	0.31 ppm	#	1
50) 2,4-Dinitrotoluene	0.000		0	N.D.		
51) Fluorene	0.000		0	N.D.		
52) Diethyl phthalate	11.059	149	1388	Below Cal	#	61
53) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
54) 4-Nitroaniline	0.000		0	N.D.		
55) 4,6-dinitro-2-methylph...	0.000		0	N.D.		
56) N-Nitrosodiphenylamine	11.473	169	3160	Below Cal	#	27
57) 1,2-Diphenylhydrazine ...	11.323	77	2359	Below Cal	#	24
59) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
60) Hexachlorobenzene	0.000		0	N.D.		
61) Pentachlorophenol	0.000		0	N.D.		
62) N-Octadecane	12.518	57	5018	0.00 ppm	#	72
64) Phenanthrene	12.566	178	1449	0.05 ppm	#	61
65) Anthracene	12.566	178	1449	0.05 ppm	#	60
66) Carbazole	0.000		0	N.D.		
67) Di-n-butyl phthalate	13.688	149	7110	0.26 ppm	#	76
68) Fluoranthene	0.000		0	N.D.		
69) Pyrene	0.000		0	N.D.		
71) Butyl benzyl phthalate	16.066	149	1316	0.19 ppm	#	80
72) Benzo(a)anthracene	16.779	228	1040	0.08 ppm	#	52
74) Chrysene	16.779	228	1040	0.04 ppm	#	55
75) 3,3-Dichlorobenzidine	0.000		0	N.D.		
76) Bis(2-ethylhexyl)phtha...	17.073	149	3926	0.20 ppm	#	83
77) Di-n-octyl phthalate	18.127	149	6303	0.23 ppm	#	87
78) Benzo(b)fluoranthene	0.000		0	N.D.		
79) Benzo(k)fluoranthene	0.000		0	N.D.		
80) Benzo(a)pyrene	0.000		0	N.D. d		
82) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
83) Dibenzo(a,h)anthracene	0.000		0	N.D.		
84) Benzo(g,h,i)perylene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SV240111.M Fri Jan 12 14:44:23 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10_2023\20231011\
Data File : B341004-BS1.D
Acq On : 11 Oct 2023 20:35
Operator : JEM
Sample : B341004-BS1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 12 13:05:53 2023
Quant Method : C:\msdchem\1\methods\METHODS\SV231012.M
Quant Title : EPA 8270 Multi-Point Calibration
QLast Update : Thu Oct 12 12:24:29 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	5.603	152	154050	20.00	ppm		0.00
29) Naphthalene-d8	7.447	136	563960	20.00	ppm	#	0.00
44) Acenaphthene-d10	10.206	164	297818	20.00	ppm		0.00
63) Phenanthrene-d10	12.532	188	459959	20.00	ppm	#	0.00
73) Chrysene-d12	16.779	240	360725	20.00	ppm		0.00
81) Perylene-d12	19.283	264	365796	20.00	ppm		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.081	112	265979	20.55	ppm		0.03
5) Phenol-d6	5.218	99	290639	19.52	ppm		0.01
20) Nitrobenzene-d5	6.426	82	344149	31.18	ppm		0.00
38) 2-Fluorobiphenyl	9.185	172	626764	34.90	ppm		0.00
58) 2,4,6-Tribromophenol	11.477	330	71301	43.90	ppm		0.00
70) Terphenyl-d14	15.166	244	686631	53.50	ppm		0.00
Target Compounds							Qvalue
2) Pyridine	2.685	79	163031	11.86	ppm	#	68
3) N-Nitrosodimethylamine	2.689	74	99444	13.27	ppm	#	82
6) Phenol	5.232	94	169481	10.59	ppm	#	77
7) Aniline	5.227	93	107798	6.75	ppm	#	15
8) 2-Chlorophenol	5.367	128	159743	13.95	ppm		98
9) N-Decane	5.444	57	178696	10.96	ppm	#	78
10) Bis(2-chloroethyl)ether	5.323	93	173043	14.39	ppm		95
11) 1,3-Dichlorobenzene	5.550	146	167421	14.03	ppm		97
12) 1,4-Dichlorobenzene	5.627	146	161489	14.23	ppm		97
13) Benzyl alcohol	5.843	108	117063	17.20	ppm	#	68
14) 1,2-Dichlorobenzene	5.882	146	163810	14.53	ppm		97
15) 2-Methylphenol	6.046	108	136544	13.97	ppm	#	88
16) 2,2'-Oxybis(1-chloropr...	6.075	45	236999	14.55	ppm	#	57
17) Hexachloroethane	6.311	117	66325	13.09	ppm		86
18) 3/4-Methylphenol	6.258	107	152415	14.75	ppm	#	90
19) N-Nitroso-di-n-propyla...	6.272	70	129839	19.40	ppm		98
21) Nitrobenzene	6.450	77	175095	14.28	ppm	#	81
22) Isophorone	6.797	82	333257	22.16	ppm	#	97
23) 2-Nitrophenol	6.922	139	84592	18.93	ppm	#	75
24) 2,4-Dimethylphenol	7.028	122	123624	15.08	ppm		90
25) Benzoic acid	7.158	122	41297	15.53	ppm		99
26) Bis(2-chloroethoxy)met...	7.173	93	207275	19.49	ppm	#	96
27) 2,4-Dichlorophenol	7.278	162	128368	18.68	ppm		98
28) 1,2,4-Trichlorobenzene	7.394	180	133254	17.47	ppm		95
30) Naphthalene	7.476	128	471855	15.18	ppm		99
31) 4-Chloroaniline	7.640	127	46069	3.59	ppm	#	96
32) Hexachlorobutadiene	7.784	225	67651	14.05	ppm		95
33) 4-Chloro-3-methylphenol	8.410	107	145578	19.74	ppm	#	82
34) 2-Methylnaphthalene	8.545	142	302107	17.54	ppm	#	91
35) Hexachlorocyclopentadiene	8.920	237	49716	13.00	ppm		99
36) 2,4,6-Trichlorophenol	9.050	196	90829	21.94	ppm		93
37) 2,4,5-Trichlorophenol	9.108	196	100249	23.57	ppm		97
39) 2-Chloronaphthalene	9.301	162	280600	19.62	ppm		96

40) 2-Nitroaniline	9.542	65	94815	25.13 ppm		89
41) Dimethyl phthalate	9.927	163	329183	29.10 ppm	#	93
42) Acenaphthylene	9.956	152	442460	22.53 ppm		100
43) 2,6-Dinitrotoluene	10.009	165	74300	28.98 ppm	#	82
45) 3-Nitroaniline	10.206	138	11316	3.00 ppm		90
46) Acenaphthene	10.259	154	270796	16.01 ppm		96
47) 2,4-Dinitrophenol	10.360	184	16825	20.92 ppm	#	86
48) Dibenzofuran	10.510	168	402137	17.42 ppm	#	89
49) 4-Nitrophenol	10.534	65	57398	21.37 ppm	#	74
50) 2,4-Dinitrotoluene	10.615	165	99310	27.60 ppm	#	70
51) Fluorene	11.058	166	329707	19.16 ppm		100
52) Diethyl phthalate	11.063	149	327996	22.98 ppm		99
53) 4-Chlorophenyl phenyl ...	11.102	204	141162	19.20 ppm		90
54) 4-Nitroaniline	11.179	138	18651	7.27 ppm	#	62
55) 4,6-dinitro-2-methylph...	11.246	198	27951	27.90 ppm	#	87
56) N-Nitrosodiphenylamine	11.309	169	207584	15.79 ppm		98
57) 1,2-Diphenylhydrazine ...	11.343	77	386255	19.65 ppm	#	96
59) 4-Bromophenyl phenyl e...	11.867	248	77484	22.18 ppm		94
60) Hexachlorobenzene	12.060	284	81317	23.84 ppm		98
61) Pentachlorophenol	12.363	266	52754	31.86 ppm		97
62) N-Octadecane	12.518	57	241849	19.50 ppm	#	75
64) Phenanthrene	12.566	178	479443	17.97 ppm		100
65) Anthracene	12.638	178	479399	18.12 ppm		98
66) Carbazole	12.932	167	441450	20.16 ppm		98
67) Di-n-butyl phthalate	13.688	149	621694	24.61 ppm	#	96
68) Fluoranthene	14.473	202	488375	24.57 ppm	#	92
69) Pyrene	14.819	202	507462	25.96 ppm		99
71) Butyl benzyl phthalate	16.066	149	268854	37.92 ppm		91
72) Benzo(a)anthracene	16.755	228	444436	37.67 ppm		99
74) Chrysene	16.822	228	440991	18.80 ppm		100
75) 3,3-Dichlorobenzidine	16.798	252	3231	0.24 ppm	#	75
76) Bis(2-ethylhexyl)phtha...	17.073	149	367278	21.20 ppm	#	96
77) Di-n-octyl phthalate	18.123	149	633534	26.59 ppm	#	95
78) Benzo(b)fluoranthene	18.585	252	406718	21.75 ppm		99
79) Benzo(k)fluoranthene	18.628	252	410433	21.11 ppm		99
80) Benzo(a)pyrene	19.172	252	380319	21.06 ppm		100
82) Indeno(1,2,3-cd)pyrene	21.455	276	314657	16.13 ppm	#	83
83) Dibenzo(a,h)anthracene	21.522	278	335269	15.69 ppm		96
84) Benzo(g,h,i)perylene	21.980	276	326483	14.12 ppm		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SV240111.M Fri Jan 12 14:44:35 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10_2023\20231011\
Data File : B341004-MS1.D
Acq On : 11 Oct 2023 21:17
Operator : JEM
Sample : B341004-MS1
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 12 13:07:53 2023
Quant Method : C:\msdchem\1\methods\METHODS\SV231012.M
Quant Title : EPA 8270 Multi-Point Calibration
QLast Update : Thu Oct 12 12:24:29 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	5.603	152	162058	20.00	ppm		0.00
29) Naphthalene-d8	7.447	136	586108	20.00	ppm	#	0.00
44) Acenaphthene-d10	10.211	164	313850	20.00	ppm		0.00
63) Phenanthrene-d10	12.532	188	488155	20.00	ppm	#	0.00
73) Chrysene-d12	16.784	240	381192	20.00	ppm		0.00
81) Perylene-d12	19.283	264	388003	20.00	ppm		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.076	112	256618	18.80	ppm		0.03
5) Phenol-d6	5.218	99	293761	18.72	ppm		0.01
20) Nitrobenzene-d5	6.426	82	318829	27.33	ppm		0.00
38) 2-Fluorobiphenyl	9.185	172	603889	32.31	ppm		0.00
58) 2,4,6-Tribromophenol	11.477	330	72208	42.34	ppm		0.00
70) Terphenyl-d14	15.166	244	655181	48.08	ppm		0.00
Target Compounds							Qvalue
2) Pyridine	2.685	79	130363	9.01	ppm	#	63
3) N-Nitrosodimethylamine	2.690	74	90383	11.37	ppm	#	82
6) Phenol	5.232	94	178773	10.62	ppm	#	74
7) Aniline	5.227	93	121059	7.21	ppm	#	18
8) 2-Chlorophenol	5.367	128	153939	12.72	ppm		97
9) N-Decane	5.444	57	163942	9.56	ppm	#	79
10) Bis(2-chloroethyl)ether	5.323	93	168345	13.22	ppm		95
11) 1,3-Dichlorobenzene	5.555	146	151919	12.00	ppm		96
12) 1,4-Dichlorobenzene	5.627	146	148455	12.33	ppm		97
13) Benzyl alcohol	5.844	108	113400	15.77	ppm	#	68
14) 1,2-Dichlorobenzene	5.882	146	154473	12.93	ppm		96
15) 2-Methylphenol	6.046	108	154901	15.14	ppm	#	87
16) 2,2'-Oxybis(1-chloropr...	6.075	45	225167	13.02	ppm	#	57
17) Hexachloroethane	6.306	117	60687	11.29	ppm		86
18) 3/4-Methylphenol	6.258	107	169302	15.63	ppm	#	89
19) N-Nitroso-di-n-propyla...	6.272	70	129966	18.40	ppm		99
21) Nitrobenzene	6.450	77	172195	13.35	ppm	#	81
22) Isophorone	6.797	82	337503	21.30	ppm	#	97
23) 2-Nitrophenol	6.922	139	81589	17.35	ppm	#	76
24) 2,4-Dimethylphenol	7.028	122	149982	17.58	ppm		90
25) Benzoic acid	7.134	122	9687	4.05	ppm		86
26) Bis(2-chloroethoxy)met...	7.173	93	208511	18.59	ppm		97
27) 2,4-Dichlorophenol	7.274	162	129214	17.83	ppm		98
28) 1,2,4-Trichlorobenzene	7.394	180	125648	15.54	ppm		95
30) Naphthalene	7.476	128	454144	14.00	ppm		99
31) 4-Chloroaniline	7.635	127	69363	5.40	ppm		98
32) Hexachlorobutadiene	7.784	225	64616	12.85	ppm		96
33) 4-Chloro-3-methylphenol	8.410	107	155268	20.28	ppm	#	82
34) 2-Methylnaphthalene	8.550	142	298863	16.66	ppm	#	91
35) Hexachlorocyclopentadiene	8.921	237	44822	11.27	ppm		98
36) 2,4,6-Trichlorophenol	9.051	196	92432	21.48	ppm		94
37) 2,4,5-Trichlorophenol	9.108	196	99111	22.40	ppm		96
39) 2-Chloronaphthalene	9.301	162	284779	19.14	ppm		96

40)	2-Nitroaniline	9.542	65	98368	25.08 ppm		90
41)	Dimethyl phthalate	9.927	163	340191	28.94 ppm	#	93
42)	Acenaphthylene	9.961	152	451179	22.10 ppm		99
43)	2,6-Dinitrotoluene	10.014	165	77754	29.18 ppm	#	82
45)	3-Nitroaniline	10.206	138	18969	4.58 ppm		86
46)	Acenaphthene	10.259	154	278685	15.62 ppm		95
47)	2,4-Dinitrophenol	10.365	184	12463	15.68 ppm	#	94
48)	Dibenzofuran	10.510	168	412584	16.94 ppm		90
49)	4-Nitrophenol	10.534	65	57084	20.20 ppm	#	77
50)	2,4-Dinitrotoluene	10.616	165	103361	27.31 ppm	#	68
51)	Fluorene	11.059	166	336302	18.52 ppm		99
52)	Diethyl phthalate	11.063	149	339554	22.55 ppm		99
53)	4-Chlorophenyl phenyl ...	11.102	204	144615	18.65 ppm		92
54)	4-Nitroaniline	11.179	138	24975	9.11 ppm	#	57
55)	4,6-dinitro-2-methylph...	11.246	198	25892	25.20 ppm	#	88
56)	N-Nitrosodiphenylamine	11.309	169	300576	21.84 ppm		98
57)	1,2-Diphenylhydrazine ...	11.343	77	392882	18.96 ppm	#	96
59)	4-Bromophenyl phenyl e...	11.867	248	79501	21.58 ppm		95
60)	Hexachlorobenzene	12.060	284	81449	22.63 ppm		97
61)	Pentachlorophenol	12.363	266	52310	30.28 ppm		97
62)	N-Octadecane	12.518	57	242493	18.53 ppm	#	75
64)	Phenanthrene	12.571	178	488668	17.26 ppm		100
65)	Anthracene	12.638	178	491458	17.51 ppm		99
66)	Carbazole	12.932	167	464257	19.98 ppm		99
67)	Di-n-butyl phthalate	13.688	149	623406	23.32 ppm	#	96
68)	Fluoranthene	14.473	202	505369	23.95 ppm	#	92
69)	Pyrene	14.819	202	518558	24.99 ppm		99
71)	Butyl benzyl phthalate	16.066	149	272212	36.40 ppm		91
72)	Benzo(a)anthracene	16.755	228	454347	36.34 ppm		99
74)	Chrysene	16.822	228	441916	17.83 ppm		99
75)	3,3-Dichlorobenzidine	16.794	252	29238	3.87 ppm	#	93
76)	Bis(2-ethylhexyl)phtha...	17.073	149	370506	20.24 ppm	#	96
77)	Di-n-octyl phthalate	18.118	149	644484	25.60 ppm	#	95
78)	Benzo(b)fluoranthene	18.580	252	418237	21.18 ppm		100
79)	Benzo(k)fluoranthene	18.623	252	417020	20.31 ppm		99
80)	Benzo(a)pyrene	19.172	252	404015	21.16 ppm		99
82)	Indeno(1,2,3-cd)pyrene	21.455	276	313373	15.22 ppm	#	83
83)	Dibenzo(a,h)anthracene	21.532	278	336817	14.92 ppm		96
84)	Benzo(g,h,i)perylene	21.980	276	339947	13.88 ppm		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SV240111.M Fri Jan 12 14:44:50 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10_2023\20231011\
Data File : B341004-MSD1.D
Acq On : 11 Oct 2023 21:59
Operator : JEM
Sample : B341004-MSD1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 12 13:31:06 2023
Quant Method : C:\msdchem\1\methods\METHODS\SV231012.M
Quant Title : EPA 8270 Multi-Point Calibration
QLast Update : Thu Oct 12 12:24:29 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	5.603	152	167561	20.00	ppm		0.00
29) Naphthalene-d8	7.447	136	610852	20.00	ppm	#	0.00
44) Acenaphthene-d10	10.206	164	320877	20.00	ppm		0.00
63) Phenanthrene-d10	12.532	188	497311	20.00	ppm	#	0.00
73) Chrysene-d12	16.779	240	376443	20.00	ppm		0.00
81) Perylene-d12	19.283	264	377968	20.00	ppm		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.081	112	296946	21.11	ppm		0.03
5) Phenol-d6	5.217	99	340645	21.11	ppm		0.01
20) Nitrobenzene-d5	6.426	82	371886	30.97	ppm		0.00
38) 2-Fluorobiphenyl	9.185	172	700554	36.04	ppm		0.00
58) 2,4,6-Tribromophenol	11.477	330	77203	44.10	ppm		0.00
70) Terphenyl-d14	15.166	244	695307	50.09	ppm		0.00
Target Compounds							Qvalue
2) Pyridine	2.689	79	106825	7.14	ppm	#	51
3) N-Nitrosodimethylamine	2.694	74	61741	7.27	ppm		85
6) Phenol	5.232	94	114915	6.15	ppm	#	78
7) Aniline	5.232	93	53102	3.06	ppm	#	1
8) 2-Chlorophenol	5.372	128	101408	7.85	ppm		98
9) N-Decane	5.444	57	112240	6.33	ppm	#	79
10) Bis(2-chloroethyl)ether	5.323	93	110156	7.95	ppm		94
11) 1,3-Dichlorobenzene	5.555	146	103245	7.62	ppm		97
12) 1,4-Dichlorobenzene	5.627	146	99722	7.73	ppm		97
13) Benzyl alcohol	5.843	108	72569	9.47	ppm	#	66
14) 1,2-Dichlorobenzene	5.882	146	102769	7.99	ppm		97
15) 2-Methylphenol	6.046	108	101049	9.19	ppm	#	88
16) 2,2'-Oxybis(1-chloropr...	6.075	45	152570	8.10	ppm	#	57
17) Hexachloroethane	6.306	117	41230	7.15	ppm	#	84
18) 3/4-Methylphenol	6.258	107	107956	9.25	ppm		90
19) N-Nitroso-di-n-propyla...	6.272	70	84019	11.10	ppm		98
21) Nitrobenzene	6.450	77	113295	8.50	ppm	#	81
22) Isophorone	6.797	82	213776	12.67	ppm	#	97
23) 2-Nitrophenol	6.922	139	51410	10.57	ppm	#	76
24) 2,4-Dimethylphenol	7.028	122	90868	9.79	ppm		90
25) Benzoic acid	7.139	122	15015	5.78	ppm		92
26) Bis(2-chloroethoxy)met...	7.172	93	132486	11.02	ppm		96
27) 2,4-Dichlorophenol	7.274	162	82543	10.64	ppm		97
28) 1,2,4-Trichlorobenzene	7.394	180	82465	9.45	ppm		96
30) Naphthalene	7.476	128	295379	8.41	ppm		99
31) 4-Chloroaniline	7.644	127	20134	1.19	ppm	#	95
32) Hexachlorobutadiene	7.784	225	42956	7.90	ppm		97
33) 4-Chloro-3-methylphenol	8.410	107	94815	11.63	ppm	#	84
34) 2-Methylnaphthalene	8.545	142	189513	9.85	ppm	#	91
35) Hexachlorocyclopentadiene	8.920	237	26403	6.37	ppm		100
36) 2,4,6-Trichlorophenol	9.050	196	56422	12.55	ppm		94
37) 2,4,5-Trichlorophenol	9.113	196	62425	13.34	ppm		93
39) 2-Chloronaphthalene	9.301	162	178574	11.20	ppm		96

40)	2-Nitroaniline	9.542	65	60003	14.66 ppm		91
41)	Dimethyl phthalate	9.922	163	212497	17.17 ppm	#	94
42)	Acenaphthylene	9.956	152	280284	12.90 ppm		99
43)	2,6-Dinitrotoluene	10.009	165	47128	17.26 ppm	#	82
45)	3-Nitroaniline	10.211	138	4866	1.41 ppm	#	49
46)	Acenaphthene	10.254	154	173890	9.31 ppm		95
47)	2,4-Dinitrophenol	10.360	184	7142	9.52 ppm	#	96
48)	Dibenzofuran	10.509	168	255917	10.04 ppm		93
49)	4-Nitrophenol	10.534	65	34190	11.92 ppm	#	69
50)	2,4-Dinitrotoluene	10.611	165	62107	17.17 ppm	#	68
51)	Fluorene	11.058	166	207471	10.89 ppm		99
52)	Diethyl phthalate	11.063	149	210260	13.09 ppm		99
53)	4-Chlorophenyl phenyl ...	11.102	204	90061	11.18 ppm		91
54)	4-Nitroaniline	11.179	138	15637	5.73 ppm	#	57
55)	4,6-dinitro-2-methylph...	11.246	198	12945	13.92 ppm	#	84
56)	N-Nitrosodiphenylamine	11.309	169	179399	12.59 ppm		97
57)	1,2-Diphenylhydrazine ...	11.343	77	239025	11.12 ppm	#	97
59)	4-Bromophenyl phenyl e...	11.867	248	50296	13.19 ppm		93
60)	Hexachlorobenzene	12.060	284	52139	13.95 ppm		98
61)	Pentachlorophenol	12.363	266	29405	18.09 ppm		96
62)	N-Octadecane	12.517	57	156328	11.55 ppm	#	74
64)	Phenanthrene	12.566	178	302384	10.48 ppm		99
65)	Anthracene	12.638	178	303593	10.62 ppm		98
66)	Carbazole	12.932	167	289331	12.22 ppm		98
67)	Di-n-butyl phthalate	13.688	149	384448	14.43 ppm	#	96
68)	Fluoranthene	14.472	202	309460	14.40 ppm	#	92
69)	Pyrene	14.814	202	311650	14.74 ppm		99
71)	Butyl benzyl phthalate	16.066	149	161729	22.53 ppm		91
72)	Benzo(a)anthracene	16.755	228	268014	21.42 ppm		99
74)	Chrysene	16.818	228	264330	10.80 ppm		99
75)	3,3-Dichlorobenzidine	16.793	252	8159	0.92 ppm	#	98
76)	Bis(2-ethylhexyl)phtha...	17.073	149	226422	12.52 ppm	#	97
77)	Di-n-octyl phthalate	18.118	149	373068	15.01 ppm	#	95
78)	Benzo(b)fluoranthene	18.580	252	246434	12.90 ppm		97
79)	Benzo(k)fluoranthene	18.623	252	249491	12.39 ppm		97
80)	Benzo(a)pyrene	19.167	252	230312	12.74 ppm		100
82)	Indeno(1,2,3-cd)pyrene	21.450	276	175453	9.26 ppm	#	82
83)	Dibenzo(a,h)anthracene	21.522	278	188309	9.07 ppm		97
84)	Benzo(g,h,i)perylene	21.980	276	192220	8.38 ppm		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SV240111.M Fri Jan 12 14:45:03 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10_2023\20231011\
Data File : 3100519-01.D
Acq On : 11 Oct 2023 22:41
Operator : JEM
Sample : 3100519-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 12 13:31:25 2023
Quant Method : C:\msdchem\1\methods\METHODS\SV231012.M
Quant Title : EPA 8270 Multi-Point Calibration
QLast Update : Thu Oct 12 12:24:29 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.603	152	168571	20.00	ppm	0.00
29) Naphthalene-d8	7.447	136	605008	20.00	ppm	# 0.00
44) Acenaphthene-d10	10.206	164	320541	20.00	ppm	0.00
63) Phenanthrene-d10	12.532	188	512569	20.00	ppm	# 0.00
73) Chrysene-d12	16.779	240	399527	20.00	ppm	0.00
81) Perylene-d12	19.283	264	392143	20.00	ppm	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0	0.00	ppm	
5) Phenol-d6	0.000	99	0	0.00	ppm	
20) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
38) 2-Fluorobiphenyl	9.185	172	1951	-0.52	ppm	0.00
58) 2,4,6-Tribromophenol	11.473	330	42497	25.37	ppm	0.00
70) Terphenyl-d14	15.166	244	617642	43.13	ppm	0.00
Target Compounds						Qvalue
2) Pyridine	0.000		0	N.D.		
3) N-Nitrosodimethylamine	0.000		0	N.D.		
6) Phenol	0.000		0	N.D.		
7) Aniline	0.000		0	N.D.		
8) 2-Chlorophenol	0.000		0	N.D.		
9) N-Decane	0.000		0	N.D.		
10) Bis(2-chloroethyl)ether	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) Benzyl alcohol	0.000		0	N.D.		
14) 1,2-Dichlorobenzene	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
16) 2,2'-Oxybis(1-chloropr...	0.000		0	N.D.		
17) Hexachloroethane	0.000		0	N.D.		
18) 3/4-Methylphenol	0.000		0	N.D.		
19) N-Nitroso-di-n-propyla...	0.000		0	N.D.		
21) Nitrobenzene	0.000		0	N.D.		
22) Isophorone	0.000		0	N.D.		
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	0.000		0	N.D.		
25) Benzoic acid	0.000		0	N.D.		
26) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
30) Naphthalene	0.000		0	N.D.		
31) 4-Chloroaniline	0.000		0	N.D.		
32) Hexachlorobutadiene	0.000		0	N.D.		
33) 4-Chloro-3-methylphenol	0.000		0	N.D.		
34) 2-Methylnaphthalene	0.000		0	N.D.		
35) Hexachlorocyclopentadiene	0.000		0	N.D.		
36) 2,4,6-Trichlorophenol	0.000		0	N.D.		
37) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 2-Chloronaphthalene	0.000		0	N.D.		

40) 2-Nitroaniline	0.000		0	N.D.		
41) Dimethyl phthalate	0.000		0	N.D.		
42) Acenaphthylene	0.000		0	N.D.		
43) 2,6-Dinitrotoluene	0.000		0	N.D.		
45) 3-Nitroaniline	0.000		0	N.D.		
46) Acenaphthene	10.202	154	1198	Below Cal	#	9
47) 2,4-Dinitrophenol	0.000		0	N.D.		
48) Dibenzofuran	0.000		0	N.D.		
49) 4-Nitrophenol	0.000		0	N.D.		
50) 2,4-Dinitrotoluene	0.000		0	N.D.		
51) Fluorene	0.000		0	N.D.		
52) Diethyl phthalate	0.000		0	N.D.		
53) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
54) 4-Nitroaniline	0.000		0	N.D.		
55) 4,6-dinitro-2-methylph...	0.000		0	N.D.		
56) N-Nitrosodiphenylamine	11.473	169	1749	Below Cal	#	26
57) 1,2-Diphenylhydrazine ...	11.328	77	1439	Below Cal	#	59
59) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
60) Hexachlorobenzene	0.000		0	N.D.		
61) Pentachlorophenol	0.000		0	N.D.		
62) N-Octadecane	12.518	57	3022	Below Cal		89
64) Phenanthrene	12.561	178	1126	0.04 ppm	#	61
65) Anthracene	12.561	178	1126	0.04 ppm	#	60
66) Carbazole	0.000		0	N.D.		
67) Di-n-butyl phthalate	13.683	149	5976	0.23 ppm	#	76
68) Fluoranthene	0.000		0	N.D.		
69) Pyrene	0.000		0	N.D.		
71) Butyl benzyl phthalate	0.000		0	N.D.		
72) Benzo(a)anthracene	16.770	228	1722	0.14 ppm	#	52
74) Chrysene	16.770	228	1722	0.07 ppm	#	55
75) 3,3-Dichlorobenzidine	0.000		0	N.D.		
76) Bis(2-ethylhexyl)phtha...	17.073	149	4222	0.22 ppm	#	88
77) Di-n-octyl phthalate	18.123	149	5893	0.22 ppm	#	87
78) Benzo(b)fluoranthene	0.000		0	N.D.		
79) Benzo(k)fluoranthene	0.000		0	N.D.		
80) Benzo(a)pyrene	0.000		0	N.D. d		
82) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
83) Dibenzo(a,h)anthracene	0.000		0	N.D.		
84) Benzo(g,h,i)perylene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SV240111.M Fri Jan 12 14:41:11 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10_2023\20231011\
Data File : 3100519-02.D
Acq On : 11 Oct 2023 23:24
Operator : JEM
Sample : 3100519-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 12 13:32:09 2023
Quant Method : C:\msdchem\1\methods\METHODS\SV231012.M
Quant Title : EPA 8270 Multi-Point Calibration
QLast Update : Thu Oct 12 12:24:29 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.603	152	167685	20.00 ppm		0.00
29) Naphthalene-d8	7.447	136	613104	20.00 ppm	#	0.00
44) Acenaphthene-d10	10.206	164	315764	20.00 ppm		0.00
63) Phenanthrene-d10	12.532	188	512711	20.00 ppm	#	0.00
73) Chrysene-d12	16.779	240	392509	20.00 ppm		0.00
81) Perylene-d12	19.283	264	385909	20.00 ppm		0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.076	112	244432	17.26 ppm		0.03
5) Phenol-d6	5.218	99	262999	16.08 ppm		0.01
20) Nitrobenzene-d5	6.422	82	304437	25.15 ppm		0.00
38) 2-Fluorobiphenyl	9.185	172	544063	27.74 ppm		0.00
58) 2,4,6-Tribromophenol	11.473	330	61425	36.28 ppm		0.00
70) Terphenyl-d14	15.166	244	618436	43.18 ppm		0.00
Target Compounds						Qvalue
2) Pyridine	2.709	79	8247	0.55 ppm	#	51
3) N-Nitrosodimethylamine	0.000		0	N.D.		
6) Phenol	0.000		0	N.D.		
7) Aniline	0.000		0	N.D.		
8) 2-Chlorophenol	0.000		0	N.D.		
9) N-Decane	5.444	57	5497	0.31 ppm	#	56
10) Bis(2-chloroethyl)ether	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) Benzyl alcohol	0.000		0	N.D.		
14) 1,2-Dichlorobenzene	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
16) 2,2'-Oxybis(1-chloropr...	5.824	45	1468	Below Cal	#	27
17) Hexachloroethane	0.000		0	N.D.		
18) 3/4-Methylphenol	0.000		0	N.D.		
19) N-Nitroso-di-n-propyla...	6.229	70	4071	Below Cal	#	73
21) Nitrobenzene	6.426	77	1361	0.10 ppm	#	39
22) Isophorone	0.000		0	N.D.		
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	0.000		0	N.D.		
25) Benzoic acid	0.000		0	N.D.		
26) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
30) Naphthalene	7.476	128	1254	Below Cal	#	69
31) 4-Chloroaniline	0.000		0	N.D.		
32) Hexachlorobutadiene	0.000		0	N.D.		
33) 4-Chloro-3-methylphenol	0.000		0	N.D.		
34) 2-Methylnaphthalene	0.000		0	N.D.		
35) Hexachlorocyclopentadiene	0.000		0	N.D.		
36) 2,4,6-Trichlorophenol	0.000		0	N.D.		
37) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 2-Chloronaphthalene	9.484	162	1897	Below Cal	#	38

40) 2-Nitroaniline	0.000		0	N.D.		
41) Dimethyl phthalate	0.000		0	N.D.		
42) Acenaphthylene	0.000		0	N.D.		
43) 2,6-Dinitrotoluene	0.000		0	N.D.		
45) 3-Nitroaniline	0.000		0	N.D.		
46) Acenaphthene	10.211	154	1146	Below Cal	#	9
47) 2,4-Dinitrophenol	0.000		0	N.D.		
48) Dibenzofuran	0.000		0	N.D.		
49) 4-Nitrophenol	0.000		0	N.D.		
50) 2,4-Dinitrotoluene	0.000		0	N.D.		
51) Fluorene	0.000		0	N.D.		
52) Diethyl phthalate	11.059	149	1408	Below Cal	#	61
53) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
54) 4-Nitroaniline	0.000		0	N.D.		
55) 4,6-dinitro-2-methylph...	0.000		0	N.D.		
56) N-Nitrosodiphenylamine	11.473	169	2913	Below Cal	#	30
57) 1,2-Diphenylhydrazine ...	11.323	77	2471	Below Cal	#	40
59) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
60) Hexachlorobenzene	0.000		0	N.D.		
61) Pentachlorophenol	0.000		0	N.D.		
62) N-Octadecane	12.518	57	3204	Below Cal		89
64) Phenanthrene	12.561	178	1798	0.06 ppm	#	61
65) Anthracene	12.561	178	1798	0.06 ppm	#	60
66) Carbazole	0.000		0	N.D.		
67) Di-n-butyl phthalate	13.683	149	5845	0.22 ppm	#	76
68) Fluoranthene	14.473	202	1080	0.05 ppm	#	65
69) Pyrene	14.815	202	1287	0.06 ppm	#	57
71) Butyl benzyl phthalate	0.000		0	N.D.		
72) Benzo(a)anthracene	0.000		0	N.D.		
74) Chrysene	0.000		0	N.D.		
75) 3,3-Dichlorobenzidine	0.000		0	N.D.		
76) Bis(2-ethylhexyl)phtha...	17.073	149	3208	0.17 ppm	#	52
77) Di-n-octyl phthalate	18.123	149	2976	0.11 ppm	#	87
78) Benzo(b)fluoranthene	0.000		0	N.D.		
79) Benzo(k)fluoranthene	0.000		0	N.D.		
80) Benzo(a)pyrene	0.000		0	N.D. d		
82) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
83) Dibenzo(a,h)anthracene	0.000		0	N.D.		
84) Benzo(g,h,i)perylene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SV240111.M Fri Jan 12 14:41:24 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10_2023\20231011\
Data File : 3100519-03.D
Acq On : 12 Oct 2023 00:06
Operator : JEM
Sample : 3100519-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 12 13:32:52 2023
Quant Method : C:\msdchem\1\methods\METHODS\SV231012.M
Quant Title : EPA 8270 Multi-Point Calibration
QLast Update : Thu Oct 12 12:24:29 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.603	152	167496	20.00	ppm	0.00
29) Naphthalene-d8	7.447	136	597736	20.00	ppm	# 0.00
44) Acenaphthene-d10	10.206	164	313676	20.00	ppm	0.00
63) Phenanthrene-d10	12.532	188	505232	20.00	ppm	# 0.00
73) Chrysene-d12	16.779	240	381884	20.00	ppm	0.00
81) Perylene-d12	19.283	264	373610	20.00	ppm	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.062	112	1314	-0.46	ppm	0.01
5) Phenol-d6	5.218	99	4766	-0.61	ppm	0.01
20) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
38) 2-Fluorobiphenyl	9.181	172	34945	1.25	ppm	0.00
58) 2,4,6-Tribromophenol	11.473	330	53362	32.04	ppm	0.00
70) Terphenyl-d14	15.166	244	662233	46.94	ppm	0.00
Target Compounds						Qvalue
2) Pyridine	0.000		0	N.D.		
3) N-Nitrosodimethylamine	0.000		0	N.D.		
6) Phenol	0.000		0	N.D.		
7) Aniline	0.000		0	N.D.		
8) 2-Chlorophenol	0.000		0	N.D.		
9) N-Decane	0.000		0	N.D.		
10) Bis(2-chloroethyl)ether	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) Benzyl alcohol	0.000		0	N.D.		
14) 1,2-Dichlorobenzene	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
16) 2,2'-Oxybis(1-chloropr...	0.000		0	N.D.		
17) Hexachloroethane	0.000		0	N.D.		
18) 3/4-Methylphenol	0.000		0	N.D.		
19) N-Nitroso-di-n-propyla...	6.272	70	1268	Below Cal	#	73
21) Nitrobenzene	0.000		0	N.D.		
22) Isophorone	0.000		0	N.D.		
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	0.000		0	N.D.		
25) Benzoic acid	0.000		0	N.D.		
26) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
30) Naphthalene	0.000		0	N.D.		
31) 4-Chloroaniline	0.000		0	N.D.		
32) Hexachlorobutadiene	0.000		0	N.D.		
33) 4-Chloro-3-methylphenol	0.000		0	N.D.		
34) 2-Methylnaphthalene	0.000		0	N.D.		
35) Hexachlorocyclopentadiene	0.000		0	N.D.		
36) 2,4,6-Trichlorophenol	0.000		0	N.D.		
37) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 2-Chloronaphthalene	0.000		0	N.D.		

40) 2-Nitroaniline	0.000		0	N.D.		
41) Dimethyl phthalate	0.000		0	N.D.		
42) Acenaphthylene	0.000		0	N.D.		
43) 2,6-Dinitrotoluene	0.000		0	N.D.		
45) 3-Nitroaniline	0.000		0	N.D.		
46) Acenaphthene	10.206	154	1076	Below Cal	#	9
47) 2,4-Dinitrophenol	0.000		0	N.D.		
48) Dibenzofuran	0.000		0	N.D.		
49) 4-Nitrophenol	0.000		0	N.D.		
50) 2,4-Dinitrotoluene	0.000		0	N.D.		
51) Fluorene	0.000		0	N.D.		
52) Diethyl phthalate	0.000		0	N.D.		
53) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
54) 4-Nitroaniline	0.000		0	N.D.		
55) 4,6-dinitro-2-methylph...	0.000		0	N.D.		
56) N-Nitrosodiphenylamine	11.468	169	2474	Below Cal	#	28
57) 1,2-Diphenylhydrazine ...	11.328	77	1757	Below Cal	#	25
59) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
60) Hexachlorobenzene	0.000		0	N.D.		
61) Pentachlorophenol	0.000		0	N.D.		
62) N-Octadecane	12.518	57	1404	Below Cal	#	40
64) Phenanthrene	12.561	178	1492	0.05 ppm	#	61
65) Anthracene	12.561	178	1492	0.05 ppm	#	60
66) Carbazole	0.000		0	N.D.		
67) Di-n-butyl phthalate	13.683	149	5569	0.21 ppm	#	76
68) Fluoranthene	0.000		0	N.D.		
69) Pyrene	0.000		0	N.D.		
71) Butyl benzyl phthalate	16.066	149	1049	0.16 ppm	#	57
72) Benzo(a)anthracene	16.774	228	1280	0.10 ppm	#	52
74) Chrysene	16.774	228	1280	0.05 ppm	#	55
75) 3,3-Dichlorobenzidine	0.000		0	N.D.		
76) Bis(2-ethylhexyl)phtha...	17.078	149	3218	0.18 ppm	#	84
77) Di-n-octyl phthalate	18.175	149	1169	0.05 ppm	#	87
78) Benzo(b)fluoranthene	0.000		0	N.D.		
79) Benzo(k)fluoranthene	0.000		0	N.D.		
80) Benzo(a)pyrene	0.000		0	N.D. d		
82) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
83) Dibenzo(a,h)anthracene	0.000		0	N.D.		
84) Benzo(g,h,i)perylene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SV240111.M Fri Jan 12 14:41:38 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10_2023\20231011\
Data File : 3100519-04.D
Acq On : 12 Oct 2023 00:48
Operator : JEM
Sample : 3100519-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 12 13:33:22 2023
Quant Method : C:\msdchem\1\methods\METHODS\SV231012.M
Quant Title : EPA 8270 Multi-Point Calibration
QLast Update : Thu Oct 12 12:24:29 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.603	152	160001	20.00 ppm	0.00
29) Naphthalene-d8	7.447	136	577467	20.00 ppm	# 0.00
44) Acenaphthene-d10	10.206	164	303425	20.00 ppm	0.00
63) Phenanthrene-d10	12.532	188	498562	20.00 ppm	# 0.00
73) Chrysene-d12	16.779	240	377535	20.00 ppm	0.00
81) Perylene-d12	19.283	264	369583	20.00 ppm	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.076	112	232062	17.17 ppm	0.03
5) Phenol-d6	5.218	99	262362	16.85 ppm	0.01
20) Nitrobenzene-d5	6.421	82	290886	25.18 ppm	0.00
38) 2-Fluorobiphenyl	9.185	172	560033	30.38 ppm	0.00
58) 2,4,6-Tribromophenol	11.473	330	62226	38.09 ppm	0.00
70) Terphenyl-d14	15.166	244	589337	42.31 ppm	0.00
Target Compounds					Qvalue
2) Pyridine	2.689	79	56946	3.99 ppm	# 68
3) N-Nitrosodimethylamine	0.000		0	N.D.	
6) Phenol	0.000		0	N.D.	
7) Aniline	0.000		0	N.D.	
8) 2-Chlorophenol	0.000		0	N.D.	
9) N-Decane	5.439	57	5753	0.34 ppm	# 54
10) Bis(2-chloroethyl)ether	0.000		0	N.D.	
11) 1,3-Dichlorobenzene	0.000		0	N.D.	
12) 1,4-Dichlorobenzene	0.000		0	N.D.	
13) Benzyl alcohol	5.839	108	1125	Below Cal	# 1
14) 1,2-Dichlorobenzene	0.000		0	N.D.	
15) 2-Methylphenol	5.839	108	1125	Below Cal	# 1
16) 2,2'-Oxybis(1-chloropr...	5.824	45	3100	Below Cal	# 31
17) Hexachloroethane	0.000		0	N.D.	
18) 3/4-Methylphenol	0.000		0	N.D.	
19) N-Nitroso-di-n-propyla...	6.311	70	1543	Below Cal	# 73
21) Nitrobenzene	6.421	77	1091	0.09 ppm	# 1
22) Isophorone	0.000		0	N.D.	
23) 2-Nitrophenol	0.000		0	N.D.	
24) 2,4-Dimethylphenol	0.000		0	N.D.	
25) Benzoic acid	0.000		0	N.D.	
26) Bis(2-chloroethoxy)met...	0.000		0	N.D.	
27) 2,4-Dichlorophenol	0.000		0	N.D.	
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
30) Naphthalene	7.476	128	1315	Below Cal	# 69
31) 4-Chloroaniline	0.000		0	N.D.	
32) Hexachlorobutadiene	0.000		0	N.D.	
33) 4-Chloro-3-methylphenol	0.000		0	N.D.	
34) 2-Methylnaphthalene	8.545	142	1022	Below Cal	# 1
35) Hexachlorocyclopentadiene	0.000		0	N.D.	
36) 2,4,6-Trichlorophenol	0.000		0	N.D.	
37) 2,4,5-Trichlorophenol	0.000		0	N.D.	
39) 2-Chloronaphthalene	9.489	162	1904	Below Cal	# 38

40) 2-Nitroaniline	0.000		0	N.D.		
41) Dimethyl phthalate	0.000		0	N.D.		
42) Acenaphthylene	0.000		0	N.D.		
43) 2,6-Dinitrotoluene	0.000		0	N.D.		
45) 3-Nitroaniline	0.000		0	N.D.		
46) Acenaphthene	10.201	154	1026	Below Cal	#	9
47) 2,4-Dinitrophenol	0.000		0	N.D.		
48) Dibenzofuran	10.510	168	1118	Below Cal	#	41
49) 4-Nitrophenol	10.794	65	1089	0.22 ppm	#	1
50) 2,4-Dinitrotoluene	0.000		0	N.D.		
51) Fluorene	0.000		0	N.D.		
52) Diethyl phthalate	11.059	149	1263	Below Cal	#	61
53) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
54) 4-Nitroaniline	0.000		0	N.D.		
55) 4,6-dinitro-2-methylph...	0.000		0	N.D.		
56) N-Nitrosodiphenylamine	11.473	169	2783	Below Cal	#	31
57) 1,2-Diphenylhydrazine ...	11.323	77	2645	Below Cal	#	24
59) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
60) Hexachlorobenzene	0.000		0	N.D.		
61) Pentachlorophenol	0.000		0	N.D.		
62) N-Octadecane	12.513	57	3441	Below Cal	#	84
64) Phenanthrene	12.566	178	1806	0.06 ppm	#	61
65) Anthracene	12.638	178	1031	0.04 ppm	#	60
66) Carbazole	0.000		0	N.D.		
67) Di-n-butyl phthalate	13.683	149	5922	0.23 ppm	#	76
68) Fluoranthene	14.468	202	1334	0.06 ppm	#	65
69) Pyrene	14.810	202	1366	0.06 ppm	#	57
71) Butyl benzyl phthalate	16.071	149	1126	0.17 ppm	#	15
72) Benzo(a)anthracene	16.784	228	1658	0.14 ppm	#	52
74) Chrysene	16.784	228	1658	0.07 ppm	#	55
75) 3,3-Dichlorobenzidine	0.000		0	N.D.		
76) Bis(2-ethylhexyl)phtha...	17.078	149	4012	0.22 ppm	#	86
77) Di-n-octyl phthalate	18.132	149	11296	0.45 ppm	#	87
78) Benzo(b)fluoranthene	0.000		0	N.D.		
79) Benzo(k)fluoranthene	0.000		0	N.D.		
80) Benzo(a)pyrene	0.000		0	N.D. d		
82) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
83) Dibenzo(a,h)anthracene	0.000		0	N.D.		
84) Benzo(g,h,i)perylene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SV240111.M Fri Jan 12 14:42:08 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10_2023\20231011\
Data File : 3100519-05.D
Acq On : 12 Oct 2023 1:30
Operator : JEM
Sample : 3100519-05
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 13:33:52 2023
Quant Method : C:\msdchem\1\methods\METHODS\SV231012.M
Quant Title : EPA 8270 Multi-Point Calibration
QLast Update : Thu Oct 12 12:24:29 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.603	152	166412	20.00 ppm		0.00
29) Naphthalene-d8	7.447	136	601716	20.00 ppm	#	0.00
44) Acenaphthene-d10	10.206	164	318585	20.00 ppm		0.00
63) Phenanthrene-d10	12.532	188	514764	20.00 ppm	#	0.00
73) Chrysene-d12	16.779	240	394116	20.00 ppm		0.00
81) Perylene-d12	19.283	264	383492	20.00 ppm		0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.076	112	215245	15.25 ppm		0.03
5) Phenol-d6	5.213	99	253699	15.60 ppm		0.00
20) Nitrobenzene-d5	6.421	82	272491	22.58 ppm		0.00
38) 2-Fluorobiphenyl	9.181	172	530403	27.56 ppm		0.00
58) 2,4,6-Tribromophenol	11.473	330	60556	35.51 ppm		0.00
70) Terphenyl-d14	15.166	244	675843	47.02 ppm		0.00
Target Compounds						Qvalue
2) Pyridine	2.704	79	8646	0.58 ppm	#	50
3) N-Nitrosodimethylamine	0.000		0	N.D.		
6) Phenol	0.000		0	N.D.		
7) Aniline	0.000		0	N.D.		
8) 2-Chlorophenol	0.000		0	N.D.		
9) N-Decane	5.439	57	4660	0.26 ppm	#	30
10) Bis(2-chloroethyl)ether	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) Benzyl alcohol	5.839	108	1088	Below Cal	#	1
14) 1,2-Dichlorobenzene	0.000		0	N.D.		
15) 2-Methylphenol	5.839	108	1088	Below Cal	#	1
16) 2,2'-Oxybis(1-chloropr...	5.824	45	2595	Below Cal	#	3
17) Hexachloroethane	0.000		0	N.D.		
18) 3/4-Methylphenol	0.000		0	N.D.		
19) N-Nitroso-di-n-propyla...	6.229	70	3599	Below Cal	#	73
21) Nitrobenzene	6.494	77	3525	0.27 ppm	#	42
22) Isophorone	0.000		0	N.D.		
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	0.000		0	N.D.		
25) Benzoic acid	0.000		0	N.D.		
26) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
30) Naphthalene	7.476	128	1297	Below Cal	#	69
31) 4-Chloroaniline	0.000		0	N.D.		
32) Hexachlorobutadiene	0.000		0	N.D.		
33) 4-Chloro-3-methylphenol	0.000		0	N.D.		
34) 2-Methylnaphthalene	8.545	142	1048	Below Cal	#	1
35) Hexachlorocyclopentadiene	0.000		0	N.D.		
36) 2,4,6-Trichlorophenol	0.000		0	N.D.		
37) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 2-Chloronaphthalene	9.489	162	1555	Below Cal	#	38

40) 2-Nitroaniline	0.000		0	N.D.		
41) Dimethyl phthalate	0.000		0	N.D.		
42) Acenaphthylene	0.000		0	N.D.		
43) 2,6-Dinitrotoluene	0.000		0	N.D.		
45) 3-Nitroaniline	0.000		0	N.D.		
46) Acenaphthene	10.206	154	1002	Below Cal	#	9
47) 2,4-Dinitrophenol	0.000		0	N.D.		
48) Dibenzofuran	10.505	168	1301	Below Cal	#	41
49) 4-Nitrophenol	0.000		0	N.D.		
50) 2,4-Dinitrotoluene	0.000		0	N.D.		
51) Fluorene	0.000		0	N.D.		
52) Diethyl phthalate	11.059	149	1167	Below Cal	#	61
53) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
54) 4-Nitroaniline	0.000		0	N.D.		
55) 4,6-dinitro-2-methylph...	0.000		0	N.D.		
56) N-Nitrosodiphenylamine	11.468	169	2600	Below Cal	#	30
57) 1,2-Diphenylhydrazine ...	11.323	77	2190	Below Cal	#	20
59) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
60) Hexachlorobenzene	0.000		0	N.D.		
61) Pentachlorophenol	0.000		0	N.D.		
62) N-Octadecane	12.518	57	2674	Below Cal	#	77
64) Phenanthrene	12.566	178	2109	0.07 ppm	#	61
65) Anthracene	12.633	178	1029	0.03 ppm	#	60
66) Carbazole	0.000		0	N.D.		
67) Di-n-butyl phthalate	13.683	149	6566	0.25 ppm	#	76
68) Fluoranthene	14.468	202	1535	0.07 ppm	#	65
69) Pyrene	14.815	202	1463	0.07 ppm	#	57
71) Butyl benzyl phthalate	16.062	149	1284	0.19 ppm	#	66
72) Benzo(a)anthracene	16.779	228	1866	0.15 ppm	#	52
74) Chrysene	16.779	228	1866	0.07 ppm	#	55
75) 3,3-Dichlorobenzidine	0.000		0	N.D.		
76) Bis(2-ethylhexyl)phtha...	17.073	149	3553	0.19 ppm	#	52
77) Di-n-octyl phthalate	18.176	149	1533	0.06 ppm	#	87
78) Benzo(b)fluoranthene	0.000		0	N.D.		
79) Benzo(k)fluoranthene	0.000		0	N.D.		
80) Benzo(a)pyrene	0.000		0	N.D. d		
82) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
83) Dibenzo(a,h)anthracene	0.000		0	N.D.		
84) Benzo(g,h,i)perylene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SV240111.M Fri Jan 12 14:42:18 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10_2023\20231011\
Data File : 3100519-06.D
Acq On : 12 Oct 2023 2:13
Operator : JEM
Sample : 3100519-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 12 13:34:08 2023
Quant Method : C:\msdchem\1\methods\METHODS\SV231012.M
Quant Title : EPA 8270 Multi-Point Calibration
QLast Update : Thu Oct 12 12:24:29 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.603	152	163909	20.00 ppm	0.00
29) Naphthalene-d8	7.447	136	585563	20.00 ppm	# 0.00
44) Acenaphthene-d10	10.206	164	311513	20.00 ppm	0.00
63) Phenanthrene-d10	12.532	188	500149	20.00 ppm	# 0.00
73) Chrysene-d12	16.779	240	381183	20.00 ppm	0.00
81) Perylene-d12	19.283	264	360792	20.00 ppm	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.00 ppm	
5) Phenol-d6	0.000	99	0	0.00 ppm	
20) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
38) 2-Fluorobiphenyl	9.180	172	8279	-0.17 ppm	0.00
58) 2,4,6-Tribromophenol	11.473	330	51636	31.27 ppm	0.00
70) Terphenyl-d14	15.166	244	668200	47.85 ppm	0.00
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
6) Phenol	0.000		0	N.D.	
7) Aniline	0.000		0	N.D.	
8) 2-Chlorophenol	0.000		0	N.D.	
9) N-Decane	0.000		0	N.D.	
10) Bis(2-chloroethyl)ether	0.000		0	N.D.	
11) 1,3-Dichlorobenzene	0.000		0	N.D.	
12) 1,4-Dichlorobenzene	0.000		0	N.D.	
13) Benzyl alcohol	0.000		0	N.D.	
14) 1,2-Dichlorobenzene	0.000		0	N.D.	
15) 2-Methylphenol	0.000		0	N.D.	
16) 2,2'-Oxybis(1-chloropr...	0.000		0	N.D.	
17) Hexachloroethane	0.000		0	N.D.	
18) 3/4-Methylphenol	0.000		0	N.D.	
19) N-Nitroso-di-n-propyla...	0.000		0	N.D.	
21) Nitrobenzene	0.000		0	N.D.	
22) Isophorone	0.000		0	N.D.	
23) 2-Nitrophenol	0.000		0	N.D.	
24) 2,4-Dimethylphenol	0.000		0	N.D.	
25) Benzoic acid	0.000		0	N.D.	
26) Bis(2-chloroethoxy)met...	0.000		0	N.D.	
27) 2,4-Dichlorophenol	0.000		0	N.D.	
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
30) Naphthalene	0.000		0	N.D.	
31) 4-Chloroaniline	0.000		0	N.D.	
32) Hexachlorobutadiene	0.000		0	N.D.	
33) 4-Chloro-3-methylphenol	0.000		0	N.D.	
34) 2-Methylnaphthalene	0.000		0	N.D.	
35) Hexachlorocyclopentadiene	0.000		0	N.D.	
36) 2,4,6-Trichlorophenol	0.000		0	N.D.	
37) 2,4,5-Trichlorophenol	0.000		0	N.D.	
39) 2-Chloronaphthalene	0.000		0	N.D.	

40) 2-Nitroaniline	0.000		0	N.D.		
41) Dimethyl phthalate	0.000		0	N.D.		
42) Acenaphthylene	0.000		0	N.D.		
43) 2,6-Dinitrotoluene	0.000		0	N.D.		
45) 3-Nitroaniline	0.000		0	N.D.		
46) Acenaphthene	0.000		0	N.D.		
47) 2,4-Dinitrophenol	0.000		0	N.D.		
48) Dibenzofuran	0.000		0	N.D.		
49) 4-Nitrophenol	0.000		0	N.D.		
50) 2,4-Dinitrotoluene	0.000		0	N.D.		
51) Fluorene	0.000		0	N.D.		
52) Diethyl phthalate	0.000		0	N.D.		
53) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
54) 4-Nitroaniline	0.000		0	N.D.		
55) 4,6-dinitro-2-methylph...	0.000		0	N.D.		
56) N-Nitrosodiphenylamine	11.473	169	2408	Below Cal	#	31
57) 1,2-Diphenylhydrazine ...	11.328	77	1039	Below Cal	#	59
59) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
60) Hexachlorobenzene	0.000		0	N.D.		
61) Pentachlorophenol	0.000		0	N.D.		
62) N-Octadecane	12.517	57	1604	Below Cal	#	38
64) Phenanthrene	12.561	178	1538	0.05 ppm	#	61
65) Anthracene	12.561	178	1538	0.05 ppm	#	60
66) Carbazole	0.000		0	N.D.		
67) Di-n-butyl phthalate	13.683	149	5723	0.22 ppm	#	76
68) Fluoranthene	0.000		0	N.D.		
69) Pyrene	0.000		0	N.D.		
71) Butyl benzyl phthalate	0.000		0	N.D.		
72) Benzo(a)anthracene	16.779	228	1355	0.11 ppm	#	52
74) Chrysene	16.779	228	1355	0.05 ppm	#	55
75) 3,3-Dichlorobenzidine	0.000		0	N.D.		
76) Bis(2-ethylhexyl)phtha...	17.073	149	3448	0.19 ppm	#	78
77) Di-n-octyl phthalate	18.171	149	1287	0.05 ppm	#	87
78) Benzo(b)fluoranthene	0.000		0	N.D.		
79) Benzo(k)fluoranthene	0.000		0	N.D.		
80) Benzo(a)pyrene	0.000		0	N.D. d		
82) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
83) Dibenzo(a,h)anthracene	0.000		0	N.D.		
84) Benzo(g,h,i)perylene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SV240111.M Fri Jan 12 14:42:32 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10_2023\20231011\
Data File : 3100519-07.D
Acq On : 12 Oct 2023 2:55
Operator : JEM
Sample : 3100519-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 12 13:34:21 2023
Quant Method : C:\msdchem\1\methods\METHODS\SV231012.M
Quant Title : EPA 8270 Multi-Point Calibration
QLast Update : Thu Oct 12 12:24:29 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.603	152	159364	20.00 ppm		0.00
29) Naphthalene-d8	7.447	136	577961	20.00 ppm	#	0.00
44) Acenaphthene-d10	10.206	164	301539	20.00 ppm		0.00
63) Phenanthrene-d10	12.532	188	486662	20.00 ppm	#	0.00
73) Chrysene-d12	16.779	240	374998	20.00 ppm		0.00
81) Perylene-d12	19.283	264	366391	20.00 ppm		0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.076	112	201660	14.91 ppm		0.03
5) Phenol-d6	5.217	99	271679	17.55 ppm		0.01
20) Nitrobenzene-d5	6.421	82	318905	27.82 ppm		0.00
38) 2-Fluorobiphenyl	9.185	172	626042	34.00 ppm		0.00
58) 2,4,6-Tribromophenol	11.473	330	57888	35.84 ppm		0.00
70) Terphenyl-d14	15.166	244	695754	51.23 ppm		0.00
Target Compounds						Qvalue
2) Pyridine	2.699	79	17726	1.25 ppm	#	65
3) N-Nitrosodimethylamine	0.000		0	N.D.		
6) Phenol	0.000		0	N.D.		
7) Aniline	0.000		0	N.D.		
8) 2-Chlorophenol	0.000		0	N.D.		
9) N-Decane	5.434	57	4708	0.28 ppm	#	32
10) Bis(2-chloroethyl)ether	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) Benzyl alcohol	5.843	108	1373	Below Cal	#	16
14) 1,2-Dichlorobenzene	0.000		0	N.D.		
15) 2-Methylphenol	5.843	108	1373	Below Cal	#	1
16) 2,2'-Oxybis(1-chloropr...	5.829	45	2037	Below Cal	#	11
17) Hexachloroethane	0.000		0	N.D.		
18) 3/4-Methylphenol	0.000		0	N.D.		
19) N-Nitroso-di-n-propyla...	6.229	70	5664	Below Cal	#	73
21) Nitrobenzene	6.421	77	1083	0.09 ppm	#	1
22) Isophorone	6.893	82	1043	Below Cal	#	66
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	0.000		0	N.D.		
25) Benzoic acid	0.000		0	N.D.		
26) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
30) Naphthalene	7.558	128	1863	Below Cal	#	69
31) 4-Chloroaniline	0.000		0	N.D.		
32) Hexachlorobutadiene	0.000		0	N.D.		
33) 4-Chloro-3-methylphenol	0.000		0	N.D.		
34) 2-Methylnaphthalene	0.000		0	N.D.		
35) Hexachlorocyclopentadiene	0.000		0	N.D.		
36) 2,4,6-Trichlorophenol	0.000		0	N.D.		
37) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 2-Chloronaphthalene	9.484	162	1472	Below Cal	#	1

40) 2-Nitroaniline	9.474	65	7612	1.96 ppm	#	30
41) Dimethyl phthalate	0.000		0	N.D.		
42) Acenaphthylene	0.000		0	N.D.		
43) 2,6-Dinitrotoluene	0.000		0	N.D.		
45) 3-Nitroaniline	0.000		0	N.D.		
46) Acenaphthene	0.000		0	N.D.		
47) 2,4-Dinitrophenol	0.000		0	N.D.		
48) Dibenzofuran	0.000		0	N.D.		
49) 4-Nitrophenol	10.635	65	1294	0.31 ppm	#	1
50) 2,4-Dinitrotoluene	0.000		0	N.D.		
51) Fluorene	0.000		0	N.D.		
52) Diethyl phthalate	11.058	149	1785	Below Cal	#	61
53) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
54) 4-Nitroaniline	0.000		0	N.D.		
55) 4,6-dinitro-2-methylph...	0.000		0	N.D.		
56) N-Nitrosodiphenylamine	11.473	169	2500	Below Cal	#	26
57) 1,2-Diphenylhydrazine ...	11.328	77	2782	Below Cal	#	35
59) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
60) Hexachlorobenzene	0.000		0	N.D.		
61) Pentachlorophenol	0.000		0	N.D.		
62) N-Octadecane	12.517	57	2010	Below Cal	#	82
64) Phenanthrene	12.561	178	1476	0.05 ppm	#	61
65) Anthracene	12.561	178	1476	0.05 ppm	#	60
66) Carbazole	0.000		0	N.D.		
67) Di-n-butyl phthalate	13.683	149	8368	0.33 ppm	#	76
68) Fluoranthene	0.000		0	N.D.		
69) Pyrene	0.000		0	N.D.		
71) Butyl benzyl phthalate	16.066	149	1150	0.18 ppm	#	10
72) Benzo(a)anthracene	0.000		0	N.D.		
74) Chrysene	0.000		0	N.D.		
75) 3,3-Dichlorobenzidine	0.000		0	N.D.		
76) Bis(2-ethylhexyl)phtha...	17.073	149	4427	0.25 ppm	#	84
77) Di-n-octyl phthalate	18.127	149	5605	0.23 ppm	#	87
78) Benzo(b)fluoranthene	0.000		0	N.D.		
79) Benzo(k)fluoranthene	0.000		0	N.D.		
80) Benzo(a)pyrene	0.000		0	N.D. d		
82) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
83) Dibenzo(a,h)anthracene	0.000		0	N.D.		
84) Benzo(g,h,i)perylene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SV240111.M Fri Jan 12 14:42:43 2024

LONG
ISLAND
ANALYTICAL
LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

EPA 8260 D

110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

LONG
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LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

VOLATILES QC SUMMARY

110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

SYSTEM MONITORING COMPOUND SUMMARY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Instrument:	ChemStation05

	(74.4% -	(BFB) # (89.4% -	(DCE) # (90.7% -	(TOL) # (92.7% -
3100519-01	93	107	99	99
B341041-BLK1	92	107	98	98
B341041-BS1	88	100	96	106
B341041-MS1	90	124*	97	103
B341041-MSD1	91	100	96	99

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LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
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SYSTEM MONITORING COMPOUND SUMMARY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	SDG:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Instrument:	ChemStation05

	(74.4% -	(BFB) # (89.4% -	(DCE) # (90.7% -	(TOL) # (92.7% -
3100519-02	95	106	99	98
3100519-03	95	107	99	99
3100519-04	96	107	99	99
3100519-05	94	107	99	99
3100519-06	95	107	98	99
3100519-07	95	107	99	99
B341082-BLK1	95	107	98	98
B341082-BS1	95	99	97	99
B341082-MS1	95	100	96	100
B341082-MSD1	94	101	98	100

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341041	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341041-MS1
Column:		Sample Lab ID:	3100449-01

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	QC LIMITS REC.
Dichlorodifluoromethane	50.0	ND	62.8	126	58.9 - 135
Chlorodifluoromethane	50.0	ND	54.6	109	60.1 - 147
Chloromethane	50.0	ND	54.2	108	63.2 - 148
Vinyl chloride	50.0	ND	42.9	86	47.6 - 150
Bromomethane	50.0	ND	52.8	106	49.6 - 155
Chloroethane	50.0	ND	50.8	102	45.9 - 155
Trichlorofluoromethane	50.0	1.77	55.4	107	70.7 - 145
Acrolein	50.0	ND	42.4	85	52.7 - 134
Acetone	50.0	ND	40.3	81	40.6 - 142
1,1-Dichloroethene	50.0	ND	50.9	102	69 - 146
tert-Butyl alcohol	50.0	ND	44.7	89	54.5 - 147
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	2.16	56.7	109	72.2 - 149
Methyl Acetate	50.0	ND	40.3	81	58.3 - 143
Acrylonitrile	50.0	ND	41.0	82	62.8 - 156
Methylene Chloride	50.0	ND	45.4	91	49.2 - 145
Carbon disulfide	50.0	2.18	64.7	125	55 - 139
Methyl-tert-Butyl Ether	50.0	2.31	46.1	88	62.7 - 122
trans-1,2-Dichloroethene	50.0	1.87	46.8	90	71.1 - 135
1,1-Dichloroethane	50.0	1.57	47.2	91	70.1 - 129
Vinyl Acetate	50.0	ND	47.9	96	56.8 - 119
Methyl Ethyl Ketone (2-Butanone)	50.0	ND	45.8	92	55.9 - 144
cis-1,2-Dichloroethene	50.0	ND	48.1	96	72.8 - 132
2,2-Dichloropropane	50.0	ND	54.2	108	70.6 - 127

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341041	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341041-MS1
Column:		Sample Lab ID:	3100449-01

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	QC LIMITS REC.
Bromochloromethane	50.0	ND	46.6	93	64.7 - 119
Chloroform	50.0	1.91	46.5	89	74.4 - 130
1,1,1-Trichloroethane	50.0	2.26	49.1	94	76.3 - 130
1,2-Dichloroethane	50.0	1.82	44.3	85	70.5 - 125
1,1-Dichloropropene	50.0	2.60	49.7	94	69.8 - 133
Carbon Tetrachloride	50.0	ND	49.6	99	69.3 - 132
Benzene	50.0	1.54	47.3	91	74.5 - 134
Trichloroethene	50.0	ND	54.3	109	76.2 - 120
1,2-Dichloropropane	50.0	ND	49.2	98	78.5 - 123
Dibromomethane	50.0	ND	48.3	97	68.6 - 119
1,4-Dioxane	500	ND	255	51	49.7 - 144
Bromodichloromethane	50.0	2.27	48.8	93	69.5 - 127
2-Chloroethyl Vinyl Ether	50.0	ND	41.8	84	45.4 - 141
4-Methyl-2-Pentanone	50.0	ND	44.6	89	59.6 - 133
cis-1,3-Dichloropropene	50.0	2.18	47.9	92	71.9 - 115
Toluene	50.0	1.18	53.9	105	71.5 - 129
trans-1,3-Dichloropropene	50.0	ND	48.5	97	75.2 - 117
1,1,2-Trichloroethane	50.0	1.99	46.8	90	70.9 - 120
Methyl Butyl Ketone (2-Hexanone)	50.0	ND	43.7	87	56.7 - 120
1,3-Dichloropropane	50.0	ND	47.6	95	79.5 - 123
Dibromochloromethane	50.0	ND	47.9	96	71.5 - 118
Tetrachloroethene	50.0	2.81	54.3	103	68 - 128
1,2-Dibromoethane	50.0	ND	47.7	95	76.1 - 115
Chlorobenzene	50.0	2.22	51.4	98	72 - 120

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341041	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341041-MS1
Column:		Sample Lab ID:	3100449-01

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.		QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	ND	52.1	104		72.2 - 117
Ethylbenzene	50.0	ND	55.4	111		73.4 - 128
m,p-Xylenes	100	ND	109	109		73.6 - 128
Styrene	50.0	ND	52.0	104		67.7 - 116
o-Xylene	50.0	ND	53.8	108		69.7 - 121
Bromoform	50.0	ND	47.3	95		67.1 - 120
1,1,2,2-Tetrachloroethane	50.0	2.27	45.8	87		70.8 - 123
Isopropylbenzene (Cumene)	50.0	ND	55.5	111		74.6 - 127
1,2,3-Trichloropropane	50.0	ND	46.7	93		70.5 - 113
Bromobenzene	50.0	ND	48.0	96		73.3 - 122
n-Propylbenzene	50.0	ND	50.0	100		70.4 - 127
2-Chlorotoluene	50.0	ND	35.1	70	*	74.9 - 124
4-Ethyltoluene	50.0	ND	35.2	70	*	71.3 - 121
4-Chlorotoluene	50.0	ND	34.7	69	*	74.7 - 124
1,3,5-Trimethylbenzene	50.0	ND	36.6	73	*	74.2 - 121
tert-Butylbenzene	50.0	ND	34.7	69		67.7 - 125
1,2,4-Trimethylbenzene	50.0	ND	34.5	69	*	74.3 - 121
sec-Butylbenzene	50.0	ND	42.8	86		61.1 - 128
1,3-Dichlorobenzene	50.0	ND	55.0	110		72.1 - 120
4-Isopropyltoluene	50.0	ND	61.2	122		75 - 128
1,4-Dichlorobenzene	50.0	ND	55.8	112		76.6 - 119
1,2-Dichlorobenzene	50.0	ND	55.9	112		75.5 - 120
1,4-Diethylbenzene	50.0	ND	61.4	123	*	72.2 - 121
n-Butylbenzene	50.0	ND	61.9	124		75.3 - 130

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341041	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341041-MS1
Column:		Sample Lab ID:	3100449-01

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	QC LIMITS REC.
1,2-Dibromo-3-chloropropane	50.0	ND	47.3	95	63 - 130
1,2,4,5-Tetramethylbenzene	50.0	ND	59.8	120	78.2 - 122
1,2,4-Trichlorobenzene	50.0	ND	55.4	111	73.1 - 127
Naphthalene	50.0	4.01	55.0	102	69.3 - 107
Hexachlorobutadiene	50.0	ND	67.2	134	74.9 - 140
1,2,3-Trichlorobenzene	50.0	ND	56.1	112	74.2 - 124

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341041	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341041-MSD1
Column:		Sample Lab ID:	3100449-01

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD		QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50.0	52.9	106	17		20	58.9 - 135
Chlorodifluoromethane	50.0	48.1	96	13		20	60.1 - 147
Chloromethane	50.0	48.7	97	11		20	63.2 - 148
Vinyl chloride	50.0	48.5	97	12		20	47.6 - 150
Bromomethane	50.0	50.6	101	4		20	49.6 - 155
Chloroethane	50.0	47.2	94	7		20	45.9 - 155
Trichlorofluoromethane	50.0	47.0	90	16		20	70.7 - 145
Acrolein	50.0	38.0	76	11		20	52.7 - 134
Acetone	50.0	42.4	85	5		20	40.6 - 142
1,1-Dichloroethene	50.0	43.3	87	16		20	69 - 146
tert-Butyl alcohol	50.0	40.3	81	10		20	54.5 - 147
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.5	91	18		20	72.2 - 149
Methyl Acetate	50.0	45.6	91	12		20	58.3 - 143
Acrylonitrile	50.0	41.6	83	2		20	62.8 - 156
Methylene Chloride	50.0	39.7	79	13		20	49.2 - 145
Carbon disulfide	50.0	55.8	107	15		20	55 - 139
Methyl-tert-Butyl Ether	50.0	42.7	81	8		20	62.7 - 122
trans-1,2-Dichloroethene	50.0	41.9	80	11		20	71.1 - 135
1,1-Dichloroethane	50.0	41.9	81	12		20	70.1 - 129
Vinyl Acetate	50.0	40.3	81	17		20	56.8 - 119
Methyl Ethyl Ketone (2-Butanone)	50.0	47.9	96	5		20	55.9 - 144
cis-1,2-Dichloroethene	50.0	42.9	86	11		20	72.8 - 132
2,2-Dichloropropane	50.0	42.7	85	24	*	20	70.6 - 127
Bromochloromethane	50.0	43.8	88	6		20	64.7 - 119

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341041	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341041-MSD1
Column:		Sample Lab ID:	3100449-01

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Chloroform	50.0	41.8	80	11	20	74.4 - 130
1,1,1-Trichloroethane	50.0	43.6	83	12	20	76.3 - 130
1,2-Dichloroethane	50.0	40.9	78	8	20	70.5 - 125
1,1-Dichloropropene	50.0	43.3	81	14	20	69.8 - 133
Carbon Tetrachloride	50.0	43.8	88	13	20	69.3 - 132
Benzene	50.0	42.8	82	10	20	74.5 - 134
Trichloroethene	50.0	47.5	95	13	20	76.2 - 120
1,2-Dichloropropane	50.0	44.0	88	11	20	78.5 - 123
Dibromomethane	50.0	45.2	90	7	20	68.6 - 119
1,4-Dioxane	500	255	51	0.1	20	49.7 - 144
Bromodichloromethane	50.0	44.0	83	10	20	69.5 - 127
2-Chloroethyl Vinyl Ether	50.0	41.1	82	2	20	45.4 - 141
4-Methyl-2-Pentanone	50.0	44.8	90	0.6	20	59.6 - 133
cis-1,3-Dichloropropene	50.0	43.7	83	9	20	71.9 - 115
Toluene	50.0	46.5	91	15	20	71.5 - 129
trans-1,3-Dichloropropene	50.0	43.5	87	11	20	75.2 - 117
1,1,2-Trichloroethane	50.0	41.4	79	12	20	70.9 - 120
Methyl Butyl Ketone (2-Hexanone)	50.0	46.0	92	5	20	56.7 - 120
1,3-Dichloropropane	50.0	45.1	90	5	20	79.5 - 123
Dibromochloromethane	50.0	45.3	91	6	20	71.5 - 118
Tetrachloroethene	50.0	46.2	87	16	20	68 - 128
1,2-Dibromoethane	50.0	45.9	92	4	20	76.1 - 115
Chlorobenzene	50.0	45.9	87	11	20	72 - 120
1,1,1,2-Tetrachloroethane	50.0	46.7	93	11	20	72.2 - 117

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341041	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341041-MSD1
Column:		Sample Lab ID:	3100449-01

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD		QC LIMITS RPD	QC LIMITS REC.
Ethylbenzene	50.0	47.8	96	15		20	73.4 - 128
m,p-Xylenes	100	93.0	93	16		20	73.6 - 128
Styrene	50.0	47.5	95	9		20	67.7 - 116
o-Xylene	50.0	47.5	95	12		20	69.7 - 121
Bromoform	50.0	45.6	91	4		20	67.1 - 120
1,1,2,2-Tetrachloroethane	50.0	45.0	85	2		20	70.8 - 123
Isopropylbenzene (Cumene)	50.0	47.7	95	15		20	74.6 - 127
1,2,3-Trichloropropane	50.0	46.5	93	0.3		20	70.5 - 113
Bromobenzene	50.0	46.4	93	3		20	73.3 - 122
n-Propylbenzene	50.0	46.7	93	7		20	70.4 - 127
2-Chlorotoluene	50.0	46.7	93	29	*	20	74.9 - 124
4-Ethyltoluene	50.0	48.5	97	32	*	20	71.3 - 121
4-Chlorotoluene	50.0	47.8	96	32	*	20	74.7 - 124
1,3,5-Trimethylbenzene	50.0	47.1	94	25	*	20	74.2 - 121
tert-Butylbenzene	50.0	47.7	95	32	*	20	67.7 - 125
1,2,4-Trimethylbenzene	50.0	46.5	93	30	*	20	74.3 - 121
sec-Butylbenzene	50.0	47.3	95	10		20	61.1 - 128
1,3-Dichlorobenzene	50.0	49.0	98	11		20	72.1 - 120
4-Isopropyltoluene	50.0	48.4	97	23	*	20	75 - 128
1,4-Dichlorobenzene	50.0	49.3	99	12		20	76.6 - 119
1,2-Dichlorobenzene	50.0	48.5	97	14		20	75.5 - 120
1,4-Diethylbenzene	50.0	48.5	97	23	*	20	72.2 - 121
n-Butylbenzene	50.0	48.2	96	25	*	20	75.3 - 130
1,2-Dibromo-3-chloropropane	50.0	47.6	95	0.7		20	63 - 130

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341041	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341041-MSD1
Column:		Sample Lab ID:	3100449-01

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD		QC LIMITS RPD	QC LIMITS REC.
1,2,4,5-Tetramethylbenzene	50.0	48.5	97	21	*	20	78.2 - 122
1,2,4-Trichlorobenzene	50.0	49.2	98	12		20	73.1 - 127
Naphthalene	50.0	55.2	102	0.4		20	69.3 - 107
Hexachlorobutadiene	50.0	49.9	100	29	*	20	74.9 - 140
1,2,3-Trichlorobenzene	50.0	52.2	104	7		20	74.2 - 124

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341082	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341082-MS1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.		QC LIMITS REC.
Dichlorodifluoromethane	50.0	ND	34.0	68		58.9 - 135
Chlorodifluoromethane	50.0	ND	33.1	66		60.1 - 147
Chloromethane	50.0	ND	33.4	67		63.2 - 148
Vinyl chloride	50.0	ND	33.2	66		47.6 - 150
Bromomethane	50.0	ND	36.2	72		49.6 - 155
Chloroethane	50.0	ND	33.0	66		45.9 - 155
Trichlorofluoromethane	50.0	1.70	32.8	62	*	70.7 - 145
Acrolein	50.0	ND	30.0	60		52.7 - 134
Acetone	50.0	ND	28.4	57		40.6 - 142
1,1-Dichloroethene	50.0	ND	30.1	60	*	69 - 146
tert-Butyl alcohol	50.0	ND	28.1	56		54.5 - 147
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	2.17	32.4	60	*	72.2 - 149
Methyl Acetate	50.0	ND	29.9	60		58.3 - 143
Acrylonitrile	50.0	ND	30.3	61	*	62.8 - 156
Methylene Chloride	50.0	ND	29.8	60		49.2 - 145
Carbon disulfide	50.0	2.18	39.3	74		55 - 139
Methyl-tert-Butyl Ether	50.0	ND	29.8	60	*	62.7 - 122
trans-1,2-Dichloroethene	50.0	1.89	30.1	56	*	71.1 - 135
1,1-Dichloroethane	50.0	1.59	29.7	56	*	70.1 - 129
Vinyl Acetate	50.0	ND	35.0	70		56.8 - 119
Methyl Ethyl Ketone (2-Butanone)	50.0	ND	34.3	69		55.9 - 144
cis-1,2-Dichloroethene	50.0	ND	30.2	60	*	72.8 - 132
2,2-Dichloropropane	50.0	ND	31.6	63	*	70.6 - 127

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341082	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341082-MS1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.		QC LIMITS REC.
Bromochloromethane	50.0	ND	31.7	63	*	64.7 - 119
Chloroform	50.0	1.85	30.2	57	*	74.4 - 130
1,1,1-Trichloroethane	50.0	2.26	30.4	56	*	76.3 - 130
1,2-Dichloroethane	50.0	1.80	29.9	56	*	70.5 - 125
1,1-Dichloropropene	50.0	2.61	30.2	55	*	69.8 - 133
Carbon Tetrachloride	50.0	ND	30.0	60	*	69.3 - 132
Benzene	50.0	ND	28.9	58	*	74.5 - 134
Trichloroethene	50.0	ND	31.7	63	*	76.2 - 120
1,2-Dichloropropane	50.0	ND	31.4	63	*	78.5 - 123
Dibromomethane	50.0	ND	32.7	65	*	68.6 - 119
1,4-Dioxane	500	ND	168	34	*	49.7 - 144
Bromodichloromethane	50.0	ND	31.5	63	*	69.5 - 127
2-Chloroethyl Vinyl Ether	50.0	ND	31.2	62		45.4 - 141
4-Methyl-2-Pentanone	50.0	ND	31.9	64		59.6 - 133
cis-1,3-Dichloropropene	50.0	2.21	31.7	59	*	71.9 - 115
Toluene	50.0	ND	32.4	65	*	71.5 - 129
trans-1,3-Dichloropropene	50.0	ND	32.6	65	*	75.2 - 117
1,1,2-Trichloroethane	50.0	ND	32.4	65	*	70.9 - 120
Methyl Butyl Ketone (2-Hexanone)	50.0	ND	32.7	65		56.7 - 120
1,3-Dichloropropane	50.0	ND	31.8	64	*	79.5 - 123
Dibromochloromethane	50.0	ND	31.9	64	*	71.5 - 118
Tetrachloroethene	50.0	2.80	31.6	58	*	68 - 128
1,2-Dibromoethane	50.0	ND	32.6	65	*	76.1 - 115
Chlorobenzene	50.0	2.23	32.4	60	*	72 - 120

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341082	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341082-MS1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.		QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	ND	32.2	64	*	72.2 - 117
Ethylbenzene	50.0	ND	32.8	66	*	73.4 - 128
m,p-Xylenes	100	ND	62.8	63	*	73.6 - 128
Styrene	50.0	ND	33.1	66	*	67.7 - 116
o-Xylene	50.0	ND	32.8	66	*	69.7 - 121
Bromoform	50.0	ND	31.5	63	*	67.1 - 120
1,1,2,2-Tetrachloroethane	50.0	2.28	32.9	61	*	70.8 - 123
Isopropylbenzene (Cumene)	50.0	ND	33.0	66	*	74.6 - 127
1,2,3-Trichloropropane	50.0	ND	32.7	65	*	70.5 - 113
Bromobenzene	50.0	ND	32.7	65	*	73.3 - 122
n-Propylbenzene	50.0	ND	32.4	65	*	70.4 - 127
2-Chlorotoluene	50.0	ND	33.0	66	*	74.9 - 124
4-Ethyltoluene	50.0	ND	34.1	68	*	71.3 - 121
4-Chlorotoluene	50.0	ND	33.0	66	*	74.7 - 124
1,3,5-Trimethylbenzene	50.0	ND	32.9	66	*	74.2 - 121
tert-Butylbenzene	50.0	ND	34.1	68		67.7 - 125
1,2,4-Trimethylbenzene	50.0	ND	32.7	65	*	74.3 - 121
sec-Butylbenzene	50.0	ND	33.1	66		61.1 - 128
1,3-Dichlorobenzene	50.0	ND	35.0	70	*	72.1 - 120
4-Isopropyltoluene	50.0	ND	34.1	68	*	75 - 128
1,4-Dichlorobenzene	50.0	ND	35.3	71	*	76.6 - 119
1,2-Dichlorobenzene	50.0	ND	34.8	70	*	75.5 - 120
1,4-Diethylbenzene	50.0	ND	34.0	68	*	72.2 - 121
n-Butylbenzene	50.0	ND	34.2	68	*	75.3 - 130

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341082	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341082-MS1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.		QC LIMITS REC.
1,2-Dibromo-3-chloropropane	50.0	ND	34.6	69		63 - 130
1,2,4,5-Tetramethylbenzene	50.0	ND	34.5	69	*	78.2 - 122
1,2,4-Trichlorobenzene	50.0	ND	35.4	71	*	73.1 - 127
Naphthalene	50.0	2.90	39.0	72		69.3 - 107
Hexachlorobutadiene	50.0	ND	34.8	70	*	74.9 - 140
1,2,3-Trichlorobenzene	50.0	ND	37.7	75		74.2 - 124

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341082	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341082-MSD1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50.0	35.2	70		3	20	58.9 - 135
Chlorodifluoromethane	50.0	30.9	62		7	20	60.1 - 147
Chloromethane	50.0	31.2	62	*	7	20	63.2 - 148
Vinyl chloride	50.0	31.1	62		7	20	47.6 - 150
Bromomethane	50.0	32.2	64		12	20	49.6 - 155
Chloroethane	50.0	29.9	60		10	20	45.9 - 155
Trichlorofluoromethane	50.0	31.9	60	*	3	20	70.7 - 145
Acrolein	50.0	25.8	52	*	15	20	52.7 - 134
Acetone	50.0	26.6	53		7	20	40.6 - 142
1,1-Dichloroethene	50.0	28.0	56	*	7	20	69 - 146
tert-Butyl alcohol	50.0	24.8	50	*	12	20	54.5 - 147
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	33.2	62	*	3	20	72.2 - 149
Methyl Acetate	50.0	28.0	56	*	7	20	58.3 - 143
Acrylonitrile	50.0	28.0	56	*	8	20	62.8 - 156
Methylene Chloride	50.0	26.4	53		12	20	49.2 - 145
Carbon disulfide	50.0	36.2	68		8	20	55 - 139
Methyl-tert-Butyl Ether	50.0	26.5	53	*	12	20	62.7 - 122
trans-1,2-Dichloroethene	50.0	26.5	49	*	13	20	71.1 - 135
1,1-Dichloroethane	50.0	26.6	50	*	11	20	70.1 - 129
Vinyl Acetate	50.0	30.4	61		14	20	56.8 - 119
Methyl Ethyl Ketone (2-Butanone)	50.0	30.9	62		10	20	55.9 - 144
cis-1,2-Dichloroethene	50.0	26.3	53	*	14	20	72.8 - 132
2,2-Dichloropropane	50.0	28.4	57	*	11	20	70.6 - 127
Bromochloromethane	50.0	27.4	55	*	14	20	64.7 - 119

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341082	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341082-MSD1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Chloroform	50.0	27.0	50	*	11	20	74.4 - 130
1,1,1-Trichloroethane	50.0	28.2	52	*	7	20	76.3 - 130
1,2-Dichloroethane	50.0	26.8	50	*	11	20	70.5 - 125
1,1-Dichloropropene	50.0	28.1	51	*	7	20	69.8 - 133
Carbon Tetrachloride	50.0	28.5	57	*	5	20	69.3 - 132
Benzene	50.0	25.8	52	*	11	20	74.5 - 134
Trichloroethene	50.0	28.7	57	*	10	20	76.2 - 120
1,2-Dichloropropane	50.0	27.1	54	*	14	20	78.5 - 123
Dibromomethane	50.0	28.4	57	*	14	20	68.6 - 119
1,4-Dioxane	500	157	31	*	7	20	49.7 - 144
Bromodichloromethane	50.0	27.8	56	*	13	20	69.5 - 127
2-Chloroethyl Vinyl Ether	50.0	26.6	53		16	20	45.4 - 141
4-Methyl-2-Pentanone	50.0	29.3	59	*	9	20	59.6 - 133
cis-1,3-Dichloropropene	50.0	28.1	52	*	12	20	71.9 - 115
Toluene	50.0	29.4	59	*	10	20	71.5 - 129
trans-1,3-Dichloropropene	50.0	28.1	56	*	15	20	75.2 - 117
1,1,2-Trichloroethane	50.0	28.2	56	*	14	20	70.9 - 120
Methyl Butyl Ketone (2-Hexanone)	50.0	29.6	59		10	20	56.7 - 120
1,3-Dichloropropane	50.0	28.2	56	*	12	20	79.5 - 123
Dibromochloromethane	50.0	28.0	56	*	13	20	71.5 - 118
Tetrachloroethene	50.0	29.8	54	*	6	20	68 - 128
1,2-Dibromoethane	50.0	28.7	57	*	13	20	76.1 - 115
Chlorobenzene	50.0	29.1	54	*	11	20	72 - 120
1,1,1,2-Tetrachloroethane	50.0	28.9	58	*	11	20	72.2 - 117

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341082	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341082-MSD1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Ethylbenzene	50.0	29.8	60	*	10	20	73.4 - 128
m,p-Xylenes	100	57.2	57	*	9	20	73.6 - 128
Styrene	50.0	29.5	59	*	11	20	67.7 - 116
o-Xylene	50.0	29.7	59	*	10	20	69.7 - 121
Bromoform	50.0	27.9	56	*	12	20	67.1 - 120
1,1,2,2-Tetrachloroethane	50.0	29.7	55	*	10	20	70.8 - 123
Isopropylbenzene (Cumene)	50.0	30.8	62	*	7	20	74.6 - 127
1,2,3-Trichloropropane	50.0	28.8	58	*	13	20	70.5 - 113
Bromobenzene	50.0	29.4	59	*	11	20	73.3 - 122
n-Propylbenzene	50.0	30.0	60	*	8	20	70.4 - 127
2-Chlorotoluene	50.0	30.0	60	*	9	20	74.9 - 124
4-Ethyltoluene	50.0	31.6	63	*	7	20	71.3 - 121
4-Chlorotoluene	50.0	29.7	59	*	10	20	74.7 - 124
1,3,5-Trimethylbenzene	50.0	30.0	60	*	9	20	74.2 - 121
tert-Butylbenzene	50.0	32.4	65	*	5	20	67.7 - 125
1,2,4-Trimethylbenzene	50.0	29.9	60	*	9	20	74.3 - 121
sec-Butylbenzene	50.0	31.4	63		6	20	61.1 - 128
1,3-Dichlorobenzene	50.0	32.0	64	*	9	20	72.1 - 120
4-Isopropyltoluene	50.0	32.0	64	*	6	20	75 - 128
1,4-Dichlorobenzene	50.0	32.0	64	*	10	20	76.6 - 119
1,2-Dichlorobenzene	50.0	31.8	64	*	9	20	75.5 - 120
1,4-Diethylbenzene	50.0	31.2	62	*	8	20	72.2 - 121
n-Butylbenzene	50.0	31.1	62	*	9	20	75.3 - 130
1,2-Dibromo-3-chloropropane	50.0	31.4	63		10	20	63 - 130

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Analysis:	EPA 8260 D
Batch:	B341082	Preparation:	EPA 5030 C
% Solids:		Laboratory ID:	B341082-MSD1
Column:		Sample Lab ID:	3100519-03

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
1,2,4,5-Tetramethylbenzene	50.0	31.5	63	*	9	20	78.2 - 122
1,2,4-Trichlorobenzene	50.0	32.8	66	*	8	20	73.1 - 127
Naphthalene	50.0	38.2	71		2	20	69.3 - 107
Hexachlorobutadiene	50.0	30.2	60	*	14	20	74.9 - 140
1,2,3-Trichlorobenzene	50.0	35.4	71	*	6	20	74.2 - 124

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Preparation:	EPA 5030 C
Batch:	B341041	Laboratory ID:	B341041-BS1
Column:		Initial/Final:	5 mL / 5 ml

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Dichlorodifluoromethane	50.0	46.1	92	59.6 - 131
Chlorodifluoromethane	50.0	42.0	84	58.1 - 136
Chloromethane	50.0	45.4	91	62.4 - 152
Vinyl chloride	50.0	41.0	82	45.2 - 143
Bromomethane	50.0	48.7	97	51 - 141
Chloroethane	50.0	43.2	86	48 - 151
Trichlorofluoromethane	50.0	41.4	83	66.1 - 132
Acrolein	50.0	41.7	83	46.3 - 131
Acetone	50.0	38.7	77	47.7 - 143
1,1-Dichloroethene	50.0	39.0	78	62.5 - 144
tert-Butyl alcohol	50.0	40.4	81	56.6 - 151
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.6	83	62.4 - 140
Methyl Acetate	50.0	42.8	86	60.1 - 144
Acrylonitrile	50.0	39.9	80	50.2 - 156
Methylene Chloride	50.0	39.8	80	52.4 - 148
Carbon disulfide	50.0	50.2	100	55.7 - 127
Methyl-tert-Butyl Ether	50.0	41.3	83	60.6 - 136
trans-1,2-Dichloroethene	50.0	39.9	80	74.1 - 129
1,1-Dichloroethane	50.0	40.1	80	74.7 - 132
Vinyl Acetate	50.0	44.7	89	54.8 - 132
Methyl Ethyl Ketone (2-Butanone)	50.0	47.6	95	61.8 - 140
cis-1,2-Dichloroethene	50.0	40.7	81	78.5 - 125
2,2-Dichloropropane	50.0	43.0	86	75.3 - 126
Bromochloromethane	50.0	43.2	86	68 - 117
Chloroform	50.0	41.0	82	77.2 - 125
1,1,1-Trichloroethane	50.0	39.7	79	78.6 - 127
1,2-Dichloroethane	50.0	40.7	81	75.7 - 117
1,1-Dichloropropene	50.0	39.1	78	57.9 - 124
Carbon Tetrachloride	50.0	39.4	79	78.1 - 121

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Preparation:	EPA 5030 C
Batch:	B341041	Laboratory ID:	B341041-BS1
Column:		Initial/Final:	5 mL / 5 ml

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Benzene	50.0	40.8	82	77 - 122
Trichloroethene	50.0	44.5	89	82.7 - 112
1,2-Dichloropropane	50.0	43.8	88	84.3 - 111
Dibromomethane	50.0	46.2	92	74 - 111
1,4-Dioxane	500	277	55	50.6 - 154
Bromodichloromethane	50.0	43.8	88	76 - 116
2-Chloroethyl Vinyl Ether	50.0	43.2	86	50.4 - 125
4-Methyl-2-Pentanone	50.0	45.9	92	58.2 - 117
cis-1,3-Dichloropropene	50.0	44.3	89	72.9 - 104
Toluene	50.0	45.4	91	81.8 - 114
trans-1,3-Dichloropropene	50.0	45.2	90	76.8 - 109
1,1,2-Trichloroethane	50.0	42.7	85	78.1 - 116
Methyl Butyl Ketone (2-Hexanone)	50.0	45.5	91	48.5 - 122
1,3-Dichloropropane	50.0	44.9	90	80.6 - 116
Dibromochloromethane	50.0	45.9	92	75.4 - 109
Tetrachloroethene	50.0	42.6	85	79.2 - 117
1,2-Dibromoethane	50.0	47.0	94	80.5 - 105
Chlorobenzene	50.0	44.8	90	76.6 - 115
1,1,1,2-Tetrachloroethane	50.0	45.4	91	75 - 114
Ethylbenzene	50.0	46.5	93	70.2 - 118
m,p-Xylenes	100	90.2	90	70.7 - 127
Styrene	50.0	47.9	96	57.3 - 125
o-Xylene	50.0	47.5	95	67.6 - 117
Bromoform	50.0	47.9	96	75.2 - 107
1,1,2,2-Tetrachloroethane	50.0	48.6	97	76.4 - 118
Isopropylbenzene (Cumene)	50.0	47.0	94	56.5 - 122
1,2,3-Trichloropropane	50.0	50.5	101	70.2 - 113
Bromobenzene	50.0	48.8	98	72.5 - 125
n-Propylbenzene	50.0	45.8	92	74.4 - 114

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Preparation:	EPA 5030 C
Batch:	B341041	Laboratory ID:	B341041-BS1
Column:		Initial/Final:	5 mL / 5 ml

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Chlorotoluene	50.0	47.8	96	79.7 - 116
4-Ethyltoluene	50.0	48.2	96	67.2 - 118
4-Chlorotoluene	50.0	48.1	96	76.2 - 121
1,3,5-Trimethylbenzene	50.0	47.2	94	70.3 - 115
tert-Butylbenzene	50.0	46.4	93	54.8 - 124
1,2,4-Trimethylbenzene	50.0	46.8	94	67.9 - 116
sec-Butylbenzene	50.0	45.6	91	60.3 - 123
1,3-Dichlorobenzene	50.0	47.4	95	69 - 128
4-Isopropyltoluene	50.0	44.1	88	69 - 119
1,4-Dichlorobenzene	50.0	47.6	95	74.3 - 128
1,2-Dichlorobenzene	50.0	47.2	94	76.3 - 119
1,4-Diethylbenzene	50.0	44.3	89	68.1 - 120
n-Butylbenzene	50.0	43.9	88	73.1 - 123
1,2-Dibromo-3-chloropropane	50.0	48.2	96	61.8 - 127
1,2,4,5-Tetramethylbenzene	50.0	45.6	91	68.6 - 119
1,2,4-Trichlorobenzene	50.0	46.0	92	59.8 - 136
Naphthalene	50.0	50.8	102	45 - 133
Hexachlorobutadiene	50.0	44.3	89	76.9 - 133
1,2,3-Trichlorobenzene	50.0	48.4	97	55.7 - 144

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Preparation:	EPA 5030 C
Batch:	B341082	Laboratory ID:	B341082-BS1
Column:		Initial/Final:	5 mL / 5 ml

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.		QC LIMITS REC.
Dichlorodifluoromethane	50.0	42.2	84		59.6 - 131
Chlorodifluoromethane	50.0	41.7	83		58.1 - 136
Chloromethane	50.0	44.6	89		62.4 - 152
Vinyl chloride	50.0	38.0	76		45.2 - 143
Bromomethane	50.0	48.4	97		51 - 141
Chloroethane	50.0	43.8	88		48 - 151
Trichlorofluoromethane	50.0	40.5	81		66.1 - 132
Acrolein	50.0	45.0	90		46.3 - 131
Acetone	50.0	44.2	88		47.7 - 143
1,1-Dichloroethene	50.0	38.9	78		62.5 - 144
tert-Butyl alcohol	50.0	41.6	83		56.6 - 151
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	40.2	80		62.4 - 140
Methyl Acetate	50.0	42.9	86		60.1 - 144
Acrylonitrile	50.0	45.9	92		50.2 - 156
Methylene Chloride	50.0	42.1	84		52.4 - 148
Carbon disulfide	50.0	48.5	97		55.7 - 127
Methyl-tert-Butyl Ether	50.0	43.5	87		60.6 - 136
trans-1,2-Dichloroethene	50.0	41.7	83		74.1 - 129
1,1-Dichloroethane	50.0	41.4	83		74.7 - 132
Vinyl Acetate	50.0	52.2	104		54.8 - 132
Methyl Ethyl Ketone (2-Butanone)	50.0	52.6	105		61.8 - 140
cis-1,2-Dichloroethene	50.0	42.6	85		78.5 - 125
2,2-Dichloropropane	50.0	42.5	85		75.3 - 126
Bromochloromethane	50.0	44.9	90		68 - 117
Chloroform	50.0	42.4	85		77.2 - 125
1,1,1-Trichloroethane	50.0	40.0	80		78.6 - 127
1,2-Dichloroethane	50.0	42.6	85		75.7 - 117
1,1-Dichloropropene	50.0	38.9	78		57.9 - 124
Carbon Tetrachloride	50.0	38.7	77	*	78.1 - 121

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Preparation:	EPA 5030 C
Batch:	B341082	Laboratory ID:	B341082-BS1
Column:		Initial/Final:	5 mL / 5 ml

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Benzene	50.0	40.7	81	77 - 122
Trichloroethene	50.0	42.8	86	82.7 - 112
1,2-Dichloropropane	50.0	44.3	89	84.3 - 111
Dibromomethane	50.0	47.1	94	74 - 111
1,4-Dioxane	500	270	54	50.6 - 154
Bromodichloromethane	50.0	44.4	89	76 - 116
2-Chloroethyl Vinyl Ether	50.0	48.4	97	50.4 - 125
4-Methyl-2-Pentanone	50.0	47.9	96	58.2 - 117
cis-1,3-Dichloropropene	50.0	45.4	91	72.9 - 104
Toluene	50.0	44.9	90	81.8 - 114
trans-1,3-Dichloropropene	50.0	47.2	94	76.8 - 109
1,1,2-Trichloroethane	50.0	46.4	93	78.1 - 116
Methyl Butyl Ketone (2-Hexanone)	50.0	48.6	97	48.5 - 122
1,3-Dichloropropane	50.0	46.7	93	80.6 - 116
Dibromochloromethane	50.0	46.6	93	75.4 - 109
Tetrachloroethene	50.0	41.2	82	79.2 - 117
1,2-Dibromoethane	50.0	48.4	97	80.5 - 105
Chlorobenzene	50.0	44.1	88	76.6 - 115
1,1,1,2-Tetrachloroethane	50.0	45.8	92	75 - 114
Ethylbenzene	50.0	44.1	88	70.2 - 118
m,p-Xylenes	100	85.8	86	70.7 - 127
Styrene	50.0	45.3	91	57.3 - 125
o-Xylene	50.0	44.7	89	67.6 - 117
Bromoform	50.0	46.3	93	75.2 - 107
1,1,2,2-Tetrachloroethane	50.0	47.4	95	76.4 - 118
Isopropylbenzene (Cumene)	50.0	43.0	86	56.5 - 122
1,2,3-Trichloropropane	50.0	46.7	93	70.2 - 113
Bromobenzene	50.0	44.6	89	72.5 - 125
n-Propylbenzene	50.0	41.7	83	74.4 - 114

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Preparation:	EPA 5030 C
Batch:	B341082	Laboratory ID:	B341082-BS1
Column:		Initial/Final:	5 mL / 5 ml

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Chlorotoluene	50.0	44.2	88	79.7 - 116
4-Ethyltoluene	50.0	44.0	88	67.2 - 118
4-Chlorotoluene	50.0	43.9	88	76.2 - 121
1,3,5-Trimethylbenzene	50.0	43.2	86	70.3 - 115
tert-Butylbenzene	50.0	43.2	86	54.8 - 124
1,2,4-Trimethylbenzene	50.0	43.3	87	67.9 - 116
sec-Butylbenzene	50.0	41.2	82	60.3 - 123
1,3-Dichlorobenzene	50.0	45.4	91	69 - 128
4-Isopropyltoluene	50.0	42.6	85	69 - 119
1,4-Dichlorobenzene	50.0	45.2	90	74.3 - 128
1,2-Dichlorobenzene	50.0	45.4	91	76.3 - 119
1,4-Diethylbenzene	50.0	42.0	84	68.1 - 120
n-Butylbenzene	50.0	41.3	83	73.1 - 123
1,2-Dibromo-3-chloropropane	50.0	48.7	97	61.8 - 127
1,2,4,5-Tetramethylbenzene	50.0	43.6	87	68.6 - 119
1,2,4-Trichlorobenzene	50.0	42.1	84	59.8 - 136
Naphthalene	50.0	42.4	85	45 - 133
Hexachlorobutadiene	50.0	41.5	83	76.9 - 133
1,2,3-Trichlorobenzene	50.0	43.6	87	55.7 - 144

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

4 - FORM IV
METHOD BLANK SUMMARY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Blank ID:	B341041-BLK1	Batch:	B341041

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
Matrix Spike Dup	B341041-MSD1	B341041-MSD1.D	18:18
Matrix Spike	B341041-MS1	B341041-MS1.D	17:53
LCS	B341041-BS1	B341041-BS1.D	12:10
MW-3A	3100519-01	3100519-01.D	20:21

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

4 - FORM IV
METHOD BLANK SUMMARY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Blank ID:	B341082-BLK1	Batch:	B341082

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
Matrix Spike Dup	B341082-MSD1	B341082-MSD1.D	14:17
Matrix Spike	B341082-MS1	B341082-MS1.D	13:52
LCS	B341082-BS1	B341082-BS1.D	13:27
EQ	3100519-07	3100519-07.D	17:10
Dup	3100519-06	3100519-06.D	16:45
MW-7C	3100519-05	3100519-05.D	16:21
MW-7B	3100519-04	3100519-04.D	15:56
MW-7A	3100519-03	3100519-03.D	15:31
MW-6AR	3100519-02	3100519-02.D	15:06

110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

5 - FORM V
INSTRUMENT PERFORMANCE CHECK

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/09/23
Instrument ID:	ChemStation05	Injection Time:	22:24
Sequence:	S341020	Lab Sample ID:	S341020-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	17.5	PASS
75	30 - 70% of 95	46.4	PASS
95	Base peak, 100% relative abundance	100	
96	5 - 9% of 95	6.71	PASS
173		0	
174	50 - 100% of 95	94.5	PASS
175	5 - 9% of 174	7.54	PASS
176	95 - 101% of 174	97	PASS
177	5 - 9% of 176	6.74	PASS

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NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
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NJDEP# NY012
PADEP# 68-2943

5 - FORM V
INSTRUMENT PERFORMANCE CHECK

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Lab File ID:	SEQ-TUN2.D	Injection Date:	10/09/23
Instrument ID:	ChemStation05	Injection Time:	18:42
Sequence:	S341020	Lab Sample ID:	S341020-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	17.4	PASS
75	30 - 70% of 95	45	PASS
95	Base peak, 100% relative abundance	100	
96	5 - 9% of 95	6.59	PASS
173		0	
174	50 - 100% of 95	94.5	PASS
175	5 - 9% of 174	7.57	PASS
176	95 - 101% of 174	96.8	PASS
177	5 - 9% of 176	6.8	PASS

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Instrument Blank	S341020-IBL1	SEQ-IBL1.D	10/09/2023	9:40:00
SOIL CCV 50 PPB (-ENE)	S341020-CCV1	SEQ-CCV1.D	10/09/2023	11:45:00
LCS	B341041-BS1	B341041-BS1.D	10/09/2023	12:10:00
Matrix Spike	B341041-MS1	B341041-MS1.D	10/09/2023	17:53:00
Matrix Spike Dup	B341041-MSD1	B341041-MSD1.D	10/09/2023	18:18:00
Blank	B341041-BLK1	B341041-BLK1.D	10/09/2023	19:07:00
MW-3A	3100519-01	3100519-01.D	10/09/2023	20:21:00

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
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5 - FORM V
INSTRUMENT PERFORMANCE CHECK

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/10/23
Instrument ID:	ChemStation05	Injection Time:	09:18
Sequence:	S341026	Lab Sample ID:	S341026-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	17.4	PASS
75	30 - 70% of 95	46.3	PASS
95	Base peak, 100% relative abundance	100	
96	5 - 9% of 95	6.69	PASS
173		0	
174	50 - 100% of 95	93.9	PASS
175	5 - 9% of 174	7.3	PASS
176	95 - 101% of 174	96.3	PASS
177	5 - 9% of 176	6.52	PASS

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

5 - FORM V
INSTRUMENT PERFORMANCE CHECK

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Lab File ID:	SEQ-TUN2.D	Injection Date:	10/10/23
Instrument ID:	ChemStation05	Injection Time:	11:48
Sequence:	S341026	Lab Sample ID:	S341026-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	17.7	PASS
75	30 - 70% of 95	46	PASS
95	Base peak, 100% relative abundance	100	
96	5 - 9% of 95	6.77	PASS
173		0	
174	50 - 100% of 95	94.7	PASS
175	5 - 9% of 174	7.51	PASS
176	95 - 101% of 174	97.2	PASS
177	5 - 9% of 176	6.47	PASS

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Instrument Blank	S341026-IBL1	SEQ-IBL1.D	10/10/2023	9:42:00
SOIL CCV 50 PPB (-ENE)	S341026-CCV1	SEQ-CCV1.D	10/10/2023	10:10:00
LCS	B341082-BS1	B341082-BS1.D	10/10/2023	13:27:00
Matrix Spike	B341082-MS1	B341082-MS1.D	10/10/2023	13:52:00
Matrix Spike Dup	B341082-MSD1	B341082-MSD1.D	10/10/2023	14:17:00
Blank	B341082-BLK1	B341082-BLK1.D	10/10/2023	14:41:00
MW-6AR	3100519-02	3100519-02.D	10/10/2023	15:06:00
MW-7A	3100519-03	3100519-03.D	10/10/2023	15:31:00
MW-7B	3100519-04	3100519-04.D	10/10/2023	15:56:00
MW-7C	3100519-05	3100519-05.D	10/10/2023	16:21:00
Dup	3100519-06	3100519-06.D	10/10/2023	16:45:00
EQ	3100519-07	3100519-07.D	10/10/2023	17:10:00

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

5 - FORM V
INSTRUMENT PERFORMANCE CHECK

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/02/23
Instrument ID:	ChemStation05	Injection Time:	09:58
Sequence:	S403063	Lab Sample ID:	S403063-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	19.7	PASS
75	30 - 70% of 95	49.6	PASS
95	Base peak, 100% relative abundance	100	
96	5 - 9% of 95	6.69	PASS
173		0.144	
174	50 - 100% of 95	92.6	PASS
175	5 - 9% of 174	7.49	PASS
176	95 - 101% of 174	96	PASS
177	5 - 9% of 176	6.77	PASS

LONG ISLAND ANALYTICAL LABORATORIES INC.
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PADEP# 68-2943

5 - FORM V
INSTRUMENT PERFORMANCE CHECK

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Lab File ID:	SEQ-TUN2.D	Injection Date:	10/02/23
Instrument ID:	ChemStation05	Injection Time:	20:53
Sequence:	S403063	Lab Sample ID:	S403063-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	17.5	PASS
75	30 - 70% of 95	45.9	PASS
95	Base peak, 100% relative abundance	100	
96	5 - 9% of 95	6.75	PASS
173		0	
174	50 - 100% of 95	93.6	PASS
175	5 - 9% of 174	7.51	PASS
176	95 - 101% of 174	97.9	PASS
177	5 - 9% of 176	6.69	PASS

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
NPW Cal 2.5 PPB	S403063-CAL1	SEQ-CAL1.D	10/02/2023	16:47:00
NPW Cal 5 PPB	S403063-CAL2	SEQ-CAL2.D	10/02/2023	17:11:00
NPW Cal 10 PPB	S403063-CAL3	SEQ-CAL3.D	10/02/2023	17:36:00
NPW Cal 25 PPB	S403063-CAL4	SEQ-CAL4.D	10/02/2023	18:00:00
NPW Cal 50 PPB	S403063-CAL5	SEQ-CAL5.D	10/02/2023	18:25:00
NPW Cal 75 PPB	S403063-CAL6	SEQ-CAL6.D	10/02/2023	18:50:00
NPW Cal 100 PPB	S403063-CAL7	SEQ-CAL7.D	10/02/2023	19:14:00
NPW Cal 150 PPB	S403063-CAL8	SEQ-CAL8.D	10/02/2023	19:39:00
NPW Cal 200 PPB	S403063-CAL9	SEQ-CAL9.D	10/02/2023	20:04:00
Initial Cal Check	S403063-ICV1	SEQ-ICV1.D	10/03/2023	10:09:00

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S403063	Instrument:	ChemStation05
		Calibration:	UNASSIGNED

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S403063-ICV1)			*Lab File ID: SEQ-ICV1.D*			*Analyzed: 10/03/23 10:09*			
Pentafluorobenzene	1022752	5.065	986600	5.065	104	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1757050	5.813	1700371	5.813	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1755743	8.703	1710239	8.703	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1017669	11.076	1056387	11.075	96	50 - 200	0.0010	+/-0.50	
Instrument Blank (S341020-IBL1)			*Lab File ID: SEQ-IBL1.D*			*Analyzed: 10/09/23 09:40*			
Pentafluorobenzene	1143757	5.065				50 - 200	5.0650	+/-0.50	
1,4-Difluorobenzene	1800911	5.813				50 - 200	5.8130	+/-0.50	
Chlorobenzene-d5	1809029	8.703				50 - 200	8.7030	+/-0.50	
1,4-Dichlorobenzene-d4	1000312	11.082				50 - 200	11.0820	+/-0.50	
Calibration Check (S341020-CCV1)			*Lab File ID: SEQ-CCV1.D*			*Analyzed: 10/09/23 11:45*			
Pentafluorobenzene	1136065	5.065				50 - 200	5.0650	+/-0.50	
1,4-Difluorobenzene	1779460	5.813				50 - 200	5.8130	+/-0.50	
Chlorobenzene-d5	1651522	8.703				50 - 200	8.7030	+/-0.50	
1,4-Dichlorobenzene-d4	1078952	11.075				50 - 200	11.0750	+/-0.50	
LCS (B341041-BS1)			*Lab File ID: B341041-BS1.D*			*Analyzed: 10/09/23 12:10*			
Pentafluorobenzene	1136800	5.065	1136065	5.065	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1785359	5.813	1779460	5.813	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1669289	8.703	1651522	8.703	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1118822	11.076	1078952	11.075	104	50 - 200	0.0010	+/-0.50	
Matrix Spike (B341041-MS1)			*Lab File ID: B341041-MS1.D*			*Analyzed: 10/09/23 17:53*			
Pentafluorobenzene	1157172	5.053	1136065	5.065	102	50 - 200	-0.0120	+/-0.50	
1,4-Difluorobenzene	1819912	5.807	1779460	5.813	102	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	1776340	8.697	1651522	8.703	108	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	847811	11.075	1078952	11.075	79	50 - 200	0.0000	+/-0.50	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S341020	Instrument:	ChemStation05
		Calibration:	UNASSIGNED

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (B341041-MSD1)			*Lab File ID: B341041-MSD1.D*			*Analyzed: 10/09/23 18:18*			
Pentafluorobenzene	1088918	5.065	1136065	5.065	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1734221	5.813	1779460	5.813	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1739419	8.703	1651522	8.703	105	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1097572	11.075	1078952	11.075	102	50 - 200	0.0000	+/-0.50	
Blank (B341041-BLK1)			*Lab File ID: B341041-BLK1.D*			*Analyzed: 10/09/23 19:07*			
Pentafluorobenzene	1066803	5.065	1136065	5.065	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1713163	5.813	1779460	5.813	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1740655	8.703	1651522	8.703	105	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	976226	11.082	1078952	11.075	90	50 - 200	0.0070	+/-0.50	
Instrument Blank (S341026-IBL1)			*Lab File ID: SEQ-IBL1.D*			*Analyzed: 10/10/23 09:42*			
Pentafluorobenzene	1036716	5.065	986600	5.065	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1694890	5.813	1700371	5.813	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1705661	8.703	1710239	8.703	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	960143	11.081	1056387	11.075	91	50 - 200	0.0060	+/-0.50	
Calibration Check (S341026-CCV1)			*Lab File ID: SEQ-CCV1.D*			*Analyzed: 10/10/23 10:10*			
Pentafluorobenzene	994827	5.065	986600	5.065	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1610555	5.813	1700371	5.813	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1648415	8.703	1710239	8.703	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1067923	11.076	1056387	11.075	101	50 - 200	0.0010	+/-0.50	
LCS (B341082-BS1)			*Lab File ID: B341082-BS1.D*			*Analyzed: 10/10/23 13:27*			
Pentafluorobenzene	1003916	5.065	994827	5.065	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1632330	5.813	1610555	5.813	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1678804	8.703	1648415	8.703	102	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1080864	11.075	1067923	11.076	101	50 - 200	-0.0010	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S341026	Instrument:	ChemStation05
		Calibration:	L404001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (B341082-MS1)			*Lab File ID: B341082-MS1.D*			*Analyzed: 10/10/23 13:52*			
Pentafluorobenzene	1009045	5.065	994827	5.065	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1639545	5.813	1610555	5.813	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1657193	8.703	1648415	8.703	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1045455	11.082	1067923	11.076	98	50 - 200	0.0060	+/-0.50	
Matrix Spike Dup (B341082-MSD1)			*Lab File ID: B341082-MSD1.D*			*Analyzed: 10/10/23 14:17*			
Pentafluorobenzene	985450	5.065	994827	5.065	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1602793	5.813	1610555	5.813	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1626877	8.703	1648415	8.703	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1007810	11.082	1067923	11.076	94	50 - 200	0.0060	+/-0.50	
Blank (B341082-BLK1)			*Lab File ID: B341082-BLK1.D*			*Analyzed: 10/10/23 14:41*			
Pentafluorobenzene	1009276	5.065	994827	5.065	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1647285	5.813	1610555	5.813	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1678515	8.703	1648415	8.703	102	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	953376	11.082	1067923	11.076	89	50 - 200	0.0060	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S403063	Instrument:	ChemStation05
		Calibration:	UNASSIGNED

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S403063-ICV1)			*Lab File ID: SEQ-ICV1.D*			*Analyzed: 10/03/23 10:09*			
Pentafluorobenzene	1022752	5.065	986600	5.065	104	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1757050	5.813	1700371	5.813	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1755743	8.703	1710239	8.703	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1017669	11.076	1056387	11.075	96	50 - 200	0.0010	+/-0.50	
Instrument Blank (S341020-IBL1)			*Lab File ID: SEQ-IBL1.D*			*Analyzed: 10/09/23 09:40*			
Pentafluorobenzene	1143757	5.065				50 - 200	5.0650	+/-0.50	
1,4-Difluorobenzene	1800911	5.813				50 - 200	5.8130	+/-0.50	
Chlorobenzene-d5	1809029	8.703				50 - 200	8.7030	+/-0.50	
1,4-Dichlorobenzene-d4	1000312	11.082				50 - 200	11.0820	+/-0.50	
Calibration Check (S341020-CCV1)			*Lab File ID: SEQ-CCV1.D*			*Analyzed: 10/09/23 11:45*			
Pentafluorobenzene	1136065	5.065				50 - 200	5.0650	+/-0.50	
1,4-Difluorobenzene	1779460	5.813				50 - 200	5.8130	+/-0.50	
Chlorobenzene-d5	1651522	8.703				50 - 200	8.7030	+/-0.50	
1,4-Dichlorobenzene-d4	1078952	11.075				50 - 200	11.0750	+/-0.50	
LCS (B341041-BS1)			*Lab File ID: B341041-BS1.D*			*Analyzed: 10/09/23 12:10*			
Pentafluorobenzene	1136800	5.065	1136065	5.065	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1785359	5.813	1779460	5.813	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1669289	8.703	1651522	8.703	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1118822	11.076	1078952	11.075	104	50 - 200	0.0010	+/-0.50	
Matrix Spike (B341041-MS1)			*Lab File ID: B341041-MS1.D*			*Analyzed: 10/09/23 17:53*			
Pentafluorobenzene	1157172	5.053	1136065	5.065	102	50 - 200	-0.0120	+/-0.50	
1,4-Difluorobenzene	1819912	5.807	1779460	5.813	102	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	1776340	8.697	1651522	8.703	108	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	847811	11.075	1078952	11.075	79	50 - 200	0.0000	+/-0.50	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S341020	Instrument:	ChemStation05
		Calibration:	UNASSIGNED

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (B341041-MSD1)			*Lab File ID: B341041-MSD1.D*			*Analyzed: 10/09/23 18:18*			
Pentafluorobenzene	1088918	5.065	1136065	5.065	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1734221	5.813	1779460	5.813	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1739419	8.703	1651522	8.703	105	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1097572	11.075	1078952	11.075	102	50 - 200	0.0000	+/-0.50	
Blank (B341041-BLK1)			*Lab File ID: B341041-BLK1.D*			*Analyzed: 10/09/23 19:07*			
Pentafluorobenzene	1066803	5.065	1136065	5.065	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1713163	5.813	1779460	5.813	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1740655	8.703	1651522	8.703	105	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	976226	11.082	1078952	11.075	90	50 - 200	0.0070	+/-0.50	
Instrument Blank (S341026-IBL1)			*Lab File ID: SEQ-IBL1.D*			*Analyzed: 10/10/23 09:42*			
Pentafluorobenzene	1036716	5.065	986600	5.065	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1694890	5.813	1700371	5.813	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1705661	8.703	1710239	8.703	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	960143	11.081	1056387	11.075	91	50 - 200	0.0060	+/-0.50	
Calibration Check (S341026-CCV1)			*Lab File ID: SEQ-CCV1.D*			*Analyzed: 10/10/23 10:10*			
Pentafluorobenzene	994827	5.065	986600	5.065	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1610555	5.813	1700371	5.813	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1648415	8.703	1710239	8.703	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1067923	11.076	1056387	11.075	101	50 - 200	0.0010	+/-0.50	
LCS (B341082-BS1)			*Lab File ID: B341082-BS1.D*			*Analyzed: 10/10/23 13:27*			
Pentafluorobenzene	1003916	5.065	994827	5.065	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1632330	5.813	1610555	5.813	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1678804	8.703	1648415	8.703	102	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1080864	11.075	1067923	11.076	101	50 - 200	-0.0010	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S341026	Instrument:	ChemStation05
		Calibration:	L404001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (B341082-MS1)			*Lab File ID: B341082-MS1.D*			*Analyzed: 10/10/23 13:52*			
Pentafluorobenzene	1009045	5.065	994827	5.065	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1639545	5.813	1610555	5.813	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1657193	8.703	1648415	8.703	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1045455	11.082	1067923	11.076	98	50 - 200	0.0060	+/-0.50	
Matrix Spike Dup (B341082-MSD1)			*Lab File ID: B341082-MSD1.D*			*Analyzed: 10/10/23 14:17*			
Pentafluorobenzene	985450	5.065	994827	5.065	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1602793	5.813	1610555	5.813	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1626877	8.703	1648415	8.703	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1007810	11.082	1067923	11.076	94	50 - 200	0.0060	+/-0.50	
Blank (B341082-BLK1)			*Lab File ID: B341082-BLK1.D*			*Analyzed: 10/10/23 14:41*			
Pentafluorobenzene	1009276	5.065	994827	5.065	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1647285	5.813	1610555	5.813	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1678515	8.703	1648415	8.703	102	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	953376	11.082	1067923	11.076	89	50 - 200	0.0060	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S403063	Instrument:	ChemStation05
		Calibration:	UNASSIGNED

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S403063-ICV1)			*Lab File ID: SEQ-ICV1.D*			*Analyzed: 10/03/23 10:09*			
Pentafluorobenzene	1022752	5.065	986600	5.065	104	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1757050	5.813	1700371	5.813	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1755743	8.703	1710239	8.703	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1017669	11.076	1056387	11.075	96	50 - 200	0.0010	+/-0.50	
Instrument Blank (S341020-IBL1)			*Lab File ID: SEQ-IBL1.D*			*Analyzed: 10/09/23 09:40*			
Pentafluorobenzene	1143757	5.065				50 - 200	5.0650	+/-0.50	
1,4-Difluorobenzene	1800911	5.813				50 - 200	5.8130	+/-0.50	
Chlorobenzene-d5	1809029	8.703				50 - 200	8.7030	+/-0.50	
1,4-Dichlorobenzene-d4	1000312	11.082				50 - 200	11.0820	+/-0.50	
Calibration Check (S341020-CCV1)			*Lab File ID: SEQ-CCV1.D*			*Analyzed: 10/09/23 11:45*			
Pentafluorobenzene	1136065	5.065				50 - 200	5.0650	+/-0.50	
1,4-Difluorobenzene	1779460	5.813				50 - 200	5.8130	+/-0.50	
Chlorobenzene-d5	1651522	8.703				50 - 200	8.7030	+/-0.50	
1,4-Dichlorobenzene-d4	1078952	11.075				50 - 200	11.0750	+/-0.50	
LCS (B341041-BS1)			*Lab File ID: B341041-BS1.D*			*Analyzed: 10/09/23 12:10*			
Pentafluorobenzene	1136800	5.065	1136065	5.065	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1785359	5.813	1779460	5.813	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1669289	8.703	1651522	8.703	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1118822	11.076	1078952	11.075	104	50 - 200	0.0010	+/-0.50	
Matrix Spike (B341041-MS1)			*Lab File ID: B341041-MS1.D*			*Analyzed: 10/09/23 17:53*			
Pentafluorobenzene	1157172	5.053	1136065	5.065	102	50 - 200	-0.0120	+/-0.50	
1,4-Difluorobenzene	1819912	5.807	1779460	5.813	102	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	1776340	8.697	1651522	8.703	108	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	847811	11.075	1078952	11.075	79	50 - 200	0.0000	+/-0.50	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S341020	Instrument:	ChemStation05
		Calibration:	UNASSIGNED

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (B341041-MSD1)			*Lab File ID: B341041-MSD1.D*			*Analyzed: 10/09/23 18:18*			
Pentafluorobenzene	1088918	5.065	1136065	5.065	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1734221	5.813	1779460	5.813	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1739419	8.703	1651522	8.703	105	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1097572	11.075	1078952	11.075	102	50 - 200	0.0000	+/-0.50	
Blank (B341041-BLK1)			*Lab File ID: B341041-BLK1.D*			*Analyzed: 10/09/23 19:07*			
Pentafluorobenzene	1066803	5.065	1136065	5.065	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1713163	5.813	1779460	5.813	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1740655	8.703	1651522	8.703	105	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	976226	11.082	1078952	11.075	90	50 - 200	0.0070	+/-0.50	
Instrument Blank (S341026-IBL1)			*Lab File ID: SEQ-IBL1.D*			*Analyzed: 10/10/23 09:42*			
Pentafluorobenzene	1036716	5.065	986600	5.065	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1694890	5.813	1700371	5.813	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1705661	8.703	1710239	8.703	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	960143	11.081	1056387	11.075	91	50 - 200	0.0060	+/-0.50	
Calibration Check (S341026-CCV1)			*Lab File ID: SEQ-CCV1.D*			*Analyzed: 10/10/23 10:10*			
Pentafluorobenzene	994827	5.065	986600	5.065	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1610555	5.813	1700371	5.813	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1648415	8.703	1710239	8.703	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1067923	11.076	1056387	11.075	101	50 - 200	0.0010	+/-0.50	
LCS (B341082-BS1)			*Lab File ID: B341082-BS1.D*			*Analyzed: 10/10/23 13:27*			
Pentafluorobenzene	1003916	5.065	994827	5.065	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1632330	5.813	1610555	5.813	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1678804	8.703	1648415	8.703	102	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1080864	11.075	1067923	11.076	101	50 - 200	-0.0010	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S341026	Instrument:	ChemStation05
		Calibration:	L404001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (B341082-MS1)			*Lab File ID: B341082-MS1.D*			*Analyzed: 10/10/23 13:52*			
Pentafluorobenzene	1009045	5.065	994827	5.065	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1639545	5.813	1610555	5.813	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1657193	8.703	1648415	8.703	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1045455	11.082	1067923	11.076	98	50 - 200	0.0060	+/-0.50	
Matrix Spike Dup (B341082-MSD1)			*Lab File ID: B341082-MSD1.D*			*Analyzed: 10/10/23 14:17*			
Pentafluorobenzene	985450	5.065	994827	5.065	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1602793	5.813	1610555	5.813	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1626877	8.703	1648415	8.703	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1007810	11.082	1067923	11.076	94	50 - 200	0.0060	+/-0.50	
Blank (B341082-BLK1)			*Lab File ID: B341082-BLK1.D*			*Analyzed: 10/10/23 14:41*			
Pentafluorobenzene	1009276	5.065	994827	5.065	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1647285	5.813	1610555	5.813	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1678515	8.703	1648415	8.703	102	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	953376	11.082	1067923	11.076	89	50 - 200	0.0060	+/-0.50	

LONG
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LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

VOLATILES SAMPLE DATA

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LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
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AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-3A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-01	File ID:	3100519-01.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 10:07	Analyzed:	10/09/23 20:21
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	5.00	U
75-45-6	Chlorodifluoromethane	5.00	2.B, U
74-87-3	Chloromethane	5.00	U
75-01-4	Vinyl chloride	5.00	U
74-83-9	Bromomethane	5.00	U
75-00-3	Chloroethane	5.00	U
75-69-4	Trichlorofluoromethane	5.00	U
107-02-8	Acrolein	5.00	U
67-64-1	Acetone	10.0	U
75-35-4	1,1-Dichloroethene	5.00	U
75-65-0	tert-Butyl alcohol	5.00	4.J, U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	U
79-20-9	Methyl Acetate	5.00	4.J, U
107-13-1	Acrylonitrile	5.00	U
75-09-2	Methylene Chloride	5.00	4.J, U
75-15-0	Carbon disulfide	5.00	U
1634-04-4	Methyl-tert-Butyl Ether	5.00	4.J, U
156-60-5	trans-1,2-Dichloroethene	5.00	4.J, U
75-34-3	1,1-Dichloroethane	5.00	4.J, U
108-05-4	Vinyl Acetate	5.00	U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	10.0	U
156-59-2	cis-1,2-Dichloroethene	5.00	U

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NYSDOH ELAP# 11693
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1 - FORM I
ANALYSIS DATA SHEET

MW-3A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-01	File ID:	3100519-01.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 10:07	Analyzed:	10/09/23 20:21
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
594-20-7	2,2-Dichloropropane	5.00	U
74-97-5	Bromochloromethane	5.00	U
67-66-3	Chloroform	5.00	4.J, U
71-55-6	1,1,1-Trichloroethane	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
563-58-6	1,1-Dichloropropene	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
71-43-2	Benzene	5.00	U
79-01-6	Trichloroethene	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
74-95-3	Dibromomethane	5.00	U
123-91-1	1,4-Dioxane	100	4.J, U
75-27-4	Bromodichloromethane	5.00	U
110-75-8	2-Chloroethyl Vinyl Ether	5.00	4.J, U
108-10-1	4-Methyl-2-Pentanone	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
108-88-3	Toluene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
591-78-6	Methyl Butyl Ketone (2-Hexanone)	10.0	4.J, U
142-28-9	1,3-Dichloropropane	5.00	4.J, U
124-48-1	Dibromochloromethane	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
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1 - FORM I
ANALYSIS DATA SHEET

MW-3A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-01	File ID:	3100519-01.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 10:07	Analyzed:	10/09/23 20:21
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
127-18-4	Tetrachloroethene	5.00	U
106-93-4	1,2-Dibromoethane	5.00	U
108-90-7	Chlorobenzene	5.00	U
630-20-6	1,1,1,2-Tetrachloroethane	5.00	U
100-41-4	Ethylbenzene	5.00	U
108-38-3/106-42-3	m,p-Xylenes	10.0	U
100-42-5	Styrene	5.00	U
95-47-6	o-Xylene	5.00	U
75-25-2	Bromoform	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
98-82-8	Isopropylbenzene (Cumene)	5.00	U
96-18-4	1,2,3-Trichloropropane	5.00	U
108-86-1	Bromobenzene	5.00	U
103-65-1	n-Propylbenzene	5.00	U
95-49-8	2-Chlorotoluene	5.00	U
622-96-8	4-Ethyltoluene	5.00	2.B, U
106-43-4	4-Chlorotoluene	5.00	U
108-67-8	1,3,5-Trimethylbenzene	5.00	U
98-06-6	tert-Butylbenzene	5.00	U
95-63-6	1,2,4-Trimethylbenzene	5.00	U
135-98-8	sec-Butylbenzene	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U

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1 - FORM I
ANALYSIS DATA SHEET

MW-3A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-01	File ID:	3100519-01.D
Sampled:	10/04/23 10:48	Prepared:	10/09/23 10:07	Analyzed:	10/09/23 20:21
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
99-87-6	4-Isopropyltoluene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
105-05-5	1,4-Diethylbenzene	5.00	2.B, U
104-51-8	n-Butylbenzene	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane	5.00	U
95-93-2	1,2,4,5-Tetramethylbenzene	5.00	2.B, U
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	5.00	4.C, U
87-68-3	Hexachlorobutadiene	5.00	U
87-61-6	1,2,3-Trichlorobenzene	5.00	U

* Values outside of QC limits

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-6AR

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-02	File ID:	3100519-02.D
Sampled:	10/04/23 08:30	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:06
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	5.00	U
75-45-6	Chlorodifluoromethane	5.00	2.B, U
74-87-3	Chloromethane	5.00	U
75-01-4	Vinyl chloride	5.00	U
74-83-9	Bromomethane	5.00	U
75-00-3	Chloroethane	5.00	U
75-69-4	Trichlorofluoromethane	5.00	U
107-02-8	Acrolein	5.00	U
67-64-1	Acetone	10.0	U
75-35-4	1,1-Dichloroethene	5.00	U
75-65-0	tert-Butyl alcohol	5.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	U
79-20-9	Methyl Acetate	5.00	U
107-13-1	Acrylonitrile	5.00	U
75-09-2	Methylene Chloride	5.00	U
75-15-0	Carbon disulfide	5.00	U
1634-04-4	Methyl-tert-Butyl Ether	5.00	U
156-60-5	trans-1,2-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
108-05-4	Vinyl Acetate	5.00	U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	10.0	U
156-59-2	cis-1,2-Dichloroethene	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
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NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-6AR

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-02	File ID:	3100519-02.D
Sampled:	10/04/23 08:30	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:06
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
594-20-7	2,2-Dichloropropane	5.00	U
74-97-5	Bromochloromethane	5.00	U
67-66-3	Chloroform	5.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
563-58-6	1,1-Dichloropropene	5.00	U
56-23-5	Carbon Tetrachloride	5.00	4.N, U
71-43-2	Benzene	5.00	U
79-01-6	Trichloroethene	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
74-95-3	Dibromomethane	5.00	U
123-91-1	1,4-Dioxane	100	4.J, U
75-27-4	Bromodichloromethane	5.00	U
110-75-8	2-Chloroethyl Vinyl Ether	5.00	U
108-10-1	4-Methyl-2-Pentanone	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
108-88-3	Toluene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
591-78-6	Methyl Butyl Ketone (2-Hexanone)	10.0	U
142-28-9	1,3-Dichloropropane	5.00	U
124-48-1	Dibromochloromethane	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-6AR

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-02	File ID:	3100519-02.D
Sampled:	10/04/23 08:30	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:06
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
127-18-4	Tetrachloroethene	5.00	U
106-93-4	1,2-Dibromoethane	5.00	U
108-90-7	Chlorobenzene	5.00	U
630-20-6	1,1,1,2-Tetrachloroethane	5.00	U
100-41-4	Ethylbenzene	5.00	U
108-38-3/106-42-3	m,p-Xylenes	10.0	4.C, U
100-42-5	Styrene	5.00	U
95-47-6	o-Xylene	5.00	4.C, U
75-25-2	Bromoform	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
98-82-8	Isopropylbenzene (Cumene)	5.00	U
96-18-4	1,2,3-Trichloropropane	5.00	U
108-86-1	Bromobenzene	5.00	U
103-65-1	n-Propylbenzene	5.00	U
95-49-8	2-Chlorotoluene	5.00	U
622-96-8	4-Ethyltoluene	5.00	2.B, U
106-43-4	4-Chlorotoluene	5.00	U
108-67-8	1,3,5-Trimethylbenzene	5.00	U
98-06-6	tert-Butylbenzene	5.00	U
95-63-6	1,2,4-Trimethylbenzene	5.00	U
135-98-8	sec-Butylbenzene	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-6AR

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-02	File ID:	3100519-02.D
Sampled:	10/04/23 08:30	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:06
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
99-87-6	4-Isopropyltoluene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
105-05-5	1,4-Diethylbenzene	5.00	2.B, U
104-51-8	n-Butylbenzene	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane	5.00	U
95-93-2	1,2,4,5-Tetramethylbenzene	5.00	2.B, U
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	5.00	4.C, U
87-68-3	Hexachlorobutadiene	5.00	U
87-61-6	1,2,3-Trichlorobenzene	5.00	4.C, U

* Values outside of QC limits

110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:31
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	5.00	U
75-45-6	Chlorodifluoromethane	5.00	2.B, U
74-87-3	Chloromethane	5.00	U
75-01-4	Vinyl chloride	5.00	U
74-83-9	Bromomethane	5.00	U
75-00-3	Chloroethane	5.00	U
75-69-4	Trichlorofluoromethane	5.00	4.G, U
107-02-8	Acrolein	5.00	U
67-64-1	Acetone	10.0	U
75-35-4	1,1-Dichloroethene	5.00	4.G, U
75-65-0	tert-Butyl alcohol	5.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	4.G, U
79-20-9	Methyl Acetate	5.00	U
107-13-1	Acrylonitrile	5.00	4.G, U
75-09-2	Methylene Chloride	5.00	U
75-15-0	Carbon disulfide	5.00	U
1634-04-4	Methyl-tert-Butyl Ether	5.00	4.G, U
156-60-5	trans-1,2-Dichloroethene	5.00	4.G, U
75-34-3	1,1-Dichloroethane	5.00	4.G, U
108-05-4	Vinyl Acetate	5.00	U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	10.0	U
156-59-2	cis-1,2-Dichloroethene	5.00	4.G, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:31
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
594-20-7	2,2-Dichloropropane	5.00	4.G, U
74-97-5	Bromochloromethane	5.00	4.G, U
67-66-3	Chloroform	5.00	4.G, U
71-55-6	1,1,1-Trichloroethane	5.00	4.G, U
107-06-2	1,2-Dichloroethane	5.00	4.G, U
563-58-6	1,1-Dichloropropene	5.00	4.G, U
56-23-5	Carbon Tetrachloride	5.00	4.N, 4.G, U
71-43-2	Benzene	5.00	4.G, U
79-01-6	Trichloroethene	5.00	4.G, U
78-87-5	1,2-Dichloropropane	5.00	4.G, U
74-95-3	Dibromomethane	5.00	4.G, U
123-91-1	1,4-Dioxane	100	4.J, 4.G, U
75-27-4	Bromodichloromethane	5.00	4.G, U
110-75-8	2-Chloroethyl Vinyl Ether	5.00	U
108-10-1	4-Methyl-2-Pentanone	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	4.G, U
108-88-3	Toluene	5.00	4.G, U
10061-02-6	trans-1,3-Dichloropropene	5.00	4.G, U
79-00-5	1,1,2-Trichloroethane	5.00	4.G, U
591-78-6	Methyl Butyl Ketone (2-Hexanone)	10.0	U
142-28-9	1,3-Dichloropropane	5.00	4.G, U
124-48-1	Dibromochloromethane	5.00	4.G, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:31
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
127-18-4	Tetrachloroethene	5.00	4.G, U
106-93-4	1,2-Dibromoethane	5.00	4.G, U
108-90-7	Chlorobenzene	5.00	4.G, U
630-20-6	1,1,1,2-Tetrachloroethane	5.00	4.G, U
100-41-4	Ethylbenzene	5.00	4.G, U
108-38-3/106-42-3	m,p-Xylenes	10.0	4.C, 4.G, U
100-42-5	Styrene	5.00	4.G, U
95-47-6	o-Xylene	5.00	4.C, 4.G, U
75-25-2	Bromoform	5.00	4.G, U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	4.G, U
98-82-8	Isopropylbenzene (Cumene)	5.00	4.G, U
96-18-4	1,2,3-Trichloropropane	5.00	4.G, U
108-86-1	Bromobenzene	5.00	4.G, U
103-65-1	n-Propylbenzene	5.00	4.G, U
95-49-8	2-Chlorotoluene	5.00	4.G, U
622-96-8	4-Ethyltoluene	5.00	4.G, 2.B, U
106-43-4	4-Chlorotoluene	5.00	4.G, U
108-67-8	1,3,5-Trimethylbenzene	5.00	4.G, U
98-06-6	tert-Butylbenzene	5.00	U
95-63-6	1,2,4-Trimethylbenzene	5.00	4.G, U
135-98-8	sec-Butylbenzene	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	4.G, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
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NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:31
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
99-87-6	4-Isopropyltoluene	5.00	4.G, U
106-46-7	1,4-Dichlorobenzene	5.00	4.G, U
95-50-1	1,2-Dichlorobenzene	5.00	4.G, U
105-05-5	1,4-Diethylbenzene	5.00	4.G, 2.B, U
104-51-8	n-Butylbenzene	5.00	4.G, U
96-12-8	1,2-Dibromo-3-chloropropane	5.00	U
95-93-2	1,2,4,5-Tetramethylbenzene	5.00	2.B, 4.G, U
120-82-1	1,2,4-Trichlorobenzene	5.00	4.G, U
91-20-3	Naphthalene	5.00	4.C, U
87-68-3	Hexachlorobutadiene	5.00	4.G, U
87-61-6	1,2,3-Trichlorobenzene	5.00	4.C, U

* Values outside of QC limits

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7B

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-04	File ID:	3100519-04.D
Sampled:	10/03/23 16:11	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:56
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	5.00	U
75-45-6	Chlorodifluoromethane	5.00	2.B, U
74-87-3	Chloromethane	5.00	U
75-01-4	Vinyl chloride	5.00	U
74-83-9	Bromomethane	5.00	U
75-00-3	Chloroethane	5.00	U
75-69-4	Trichlorofluoromethane	5.00	U
107-02-8	Acrolein	5.00	U
67-64-1	Acetone	10.0	U
75-35-4	1,1-Dichloroethene	5.00	U
75-65-0	tert-Butyl alcohol	5.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	U
79-20-9	Methyl Acetate	5.00	U
107-13-1	Acrylonitrile	5.00	U
75-09-2	Methylene Chloride	5.00	U
75-15-0	Carbon disulfide	5.00	U
1634-04-4	Methyl-tert-Butyl Ether	5.00	U
156-60-5	trans-1,2-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
108-05-4	Vinyl Acetate	5.00	U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	10.0	U
156-59-2	cis-1,2-Dichloroethene	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7B

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-04	File ID:	3100519-04.D
Sampled:	10/03/23 16:11	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:56
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
594-20-7	2,2-Dichloropropane	5.00	U
74-97-5	Bromochloromethane	5.00	U
67-66-3	Chloroform	5.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
563-58-6	1,1-Dichloropropene	5.00	U
56-23-5	Carbon Tetrachloride	5.00	4.N, U
71-43-2	Benzene	5.00	U
79-01-6	Trichloroethene	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
74-95-3	Dibromomethane	5.00	U
123-91-1	1,4-Dioxane	100	4.J, U
75-27-4	Bromodichloromethane	5.00	U
110-75-8	2-Chloroethyl Vinyl Ether	5.00	U
108-10-1	4-Methyl-2-Pentanone	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
108-88-3	Toluene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
591-78-6	Methyl Butyl Ketone (2-Hexanone)	10.0	U
142-28-9	1,3-Dichloropropane	5.00	U
124-48-1	Dibromochloromethane	5.00	U

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"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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1 - FORM I
ANALYSIS DATA SHEET

MW-7B

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-04	File ID:	3100519-04.D
Sampled:	10/03/23 16:11	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:56
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
127-18-4	Tetrachloroethene	5.00	U
106-93-4	1,2-Dibromoethane	5.00	U
108-90-7	Chlorobenzene	5.00	U
630-20-6	1,1,1,2-Tetrachloroethane	5.00	U
100-41-4	Ethylbenzene	5.00	U
108-38-3/106-42-3	m,p-Xylenes	10.0	4.C, U
100-42-5	Styrene	5.00	U
95-47-6	o-Xylene	5.00	4.C, U
75-25-2	Bromoform	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
98-82-8	Isopropylbenzene (Cumene)	5.00	U
96-18-4	1,2,3-Trichloropropane	5.00	U
108-86-1	Bromobenzene	5.00	U
103-65-1	n-Propylbenzene	5.00	U
95-49-8	2-Chlorotoluene	5.00	U
622-96-8	4-Ethyltoluene	5.00	2.B, U
106-43-4	4-Chlorotoluene	5.00	U
108-67-8	1,3,5-Trimethylbenzene	5.00	U
98-06-6	tert-Butylbenzene	5.00	U
95-63-6	1,2,4-Trimethylbenzene	5.00	U
135-98-8	sec-Butylbenzene	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7B

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-04	File ID:	3100519-04.D
Sampled:	10/03/23 16:11	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:56
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
99-87-6	4-Isopropyltoluene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
105-05-5	1,4-Diethylbenzene	5.00	2.B, U
104-51-8	n-Butylbenzene	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane	5.00	U
95-93-2	1,2,4,5-Tetramethylbenzene	5.00	2.B, U
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	5.00	4.C, U
87-68-3	Hexachlorobutadiene	5.00	U
87-61-6	1,2,3-Trichlorobenzene	5.00	4.C, U

* Values outside of QC limits

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7C

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-05	File ID:	3100519-05.D
Sampled:	10/03/23 14:17	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 16:21
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	5.00	U
75-45-6	Chlorodifluoromethane	5.00	2.B, U
74-87-3	Chloromethane	5.00	U
75-01-4	Vinyl chloride	5.00	U
74-83-9	Bromomethane	5.00	U
75-00-3	Chloroethane	5.00	U
75-69-4	Trichlorofluoromethane	5.00	U
107-02-8	Acrolein	5.00	U
67-64-1	Acetone	10.0	U
75-35-4	1,1-Dichloroethene	5.00	U
75-65-0	tert-Butyl alcohol	5.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	U
79-20-9	Methyl Acetate	5.00	U
107-13-1	Acrylonitrile	5.00	U
75-09-2	Methylene Chloride	5.00	U
75-15-0	Carbon disulfide	5.00	U
1634-04-4	Methyl-tert-Butyl Ether	5.00	U
156-60-5	trans-1,2-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
108-05-4	Vinyl Acetate	5.00	U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	10.0	U
156-59-2	cis-1,2-Dichloroethene	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
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PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7C

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-05	File ID:	3100519-05.D
Sampled:	10/03/23 14:17	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 16:21
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001	Instrument:	ChemStation05

CAS NO.	COMPOUND	CONC. (ug/L)	Q
594-20-7	2,2-Dichloropropane	5.00	U
74-97-5	Bromochloromethane	5.00	U
67-66-3	Chloroform	5.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
563-58-6	1,1-Dichloropropene	5.00	U
56-23-5	Carbon Tetrachloride	5.00	4.N, U
71-43-2	Benzene	5.00	U
79-01-6	Trichloroethene	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
74-95-3	Dibromomethane	5.00	U
123-91-1	1,4-Dioxane	100	4.J, U
75-27-4	Bromodichloromethane	5.00	U
110-75-8	2-Chloroethyl Vinyl Ether	5.00	U
108-10-1	4-Methyl-2-Pentanone	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
108-88-3	Toluene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
591-78-6	Methyl Butyl Ketone (2-Hexanone)	10.0	U
142-28-9	1,3-Dichloropropane	5.00	U
124-48-1	Dibromochloromethane	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
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PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7C

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-05	File ID:	3100519-05.D
Sampled:	10/03/23 14:17	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 16:21
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
127-18-4	Tetrachloroethene	5.00	U
106-93-4	1,2-Dibromoethane	5.00	U
108-90-7	Chlorobenzene	5.00	U
630-20-6	1,1,1,2-Tetrachloroethane	5.00	U
100-41-4	Ethylbenzene	5.00	U
108-38-3/106-42-3	m,p-Xylenes	10.0	4.C, U
100-42-5	Styrene	5.00	U
95-47-6	o-Xylene	5.00	4.C, U
75-25-2	Bromoform	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
98-82-8	Isopropylbenzene (Cumene)	5.00	U
96-18-4	1,2,3-Trichloropropane	5.00	U
108-86-1	Bromobenzene	5.00	U
103-65-1	n-Propylbenzene	5.00	U
95-49-8	2-Chlorotoluene	5.00	U
622-96-8	4-Ethyltoluene	5.00	2.B, U
106-43-4	4-Chlorotoluene	5.00	U
108-67-8	1,3,5-Trimethylbenzene	5.00	U
98-06-6	tert-Butylbenzene	5.00	U
95-63-6	1,2,4-Trimethylbenzene	5.00	U
135-98-8	sec-Butylbenzene	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
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NYSDOH ELAP# 11693
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1 - FORM I
ANALYSIS DATA SHEET

MW-7C

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-05	File ID:	3100519-05.D
Sampled:	10/03/23 14:17	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 16:21
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
99-87-6	4-Isopropyltoluene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
105-05-5	1,4-Diethylbenzene	5.00	2.B, U
104-51-8	n-Butylbenzene	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane	5.00	U
95-93-2	1,2,4,5-Tetramethylbenzene	5.00	2.B, U
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	5.00	4.C, U
87-68-3	Hexachlorobutadiene	5.00	U
87-61-6	1,2,3-Trichlorobenzene	5.00	4.C, U

* Values outside of QC limits

110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
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1 - FORM I
ANALYSIS DATA SHEET

Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-06	File ID:	3100519-06.D
Sampled:	10/04/23 00:01	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 16:45
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	5.00	U
75-45-6	Chlorodifluoromethane	5.00	2.B, U
74-87-3	Chloromethane	5.00	U
75-01-4	Vinyl chloride	5.00	U
74-83-9	Bromomethane	5.00	U
75-00-3	Chloroethane	5.00	U
75-69-4	Trichlorofluoromethane	5.00	U
107-02-8	Acrolein	5.00	U
67-64-1	Acetone	10.0	U
75-35-4	1,1-Dichloroethene	5.00	U
75-65-0	tert-Butyl alcohol	5.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	U
79-20-9	Methyl Acetate	5.00	U
107-13-1	Acrylonitrile	5.00	U
75-09-2	Methylene Chloride	5.00	U
75-15-0	Carbon disulfide	5.00	U
1634-04-4	Methyl-tert-Butyl Ether	5.00	U
156-60-5	trans-1,2-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
108-05-4	Vinyl Acetate	5.00	U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	10.0	U
156-59-2	cis-1,2-Dichloroethene	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-06	File ID:	3100519-06.D
Sampled:	10/04/23 00:01	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 16:45
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
594-20-7	2,2-Dichloropropane	5.00	U
74-97-5	Bromochloromethane	5.00	U
67-66-3	Chloroform	5.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
563-58-6	1,1-Dichloropropene	5.00	U
56-23-5	Carbon Tetrachloride	5.00	4.N, U
71-43-2	Benzene	5.00	U
79-01-6	Trichloroethene	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
74-95-3	Dibromomethane	5.00	U
123-91-1	1,4-Dioxane	100	4.J, U
75-27-4	Bromodichloromethane	5.00	U
110-75-8	2-Chloroethyl Vinyl Ether	5.00	U
108-10-1	4-Methyl-2-Pentanone	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
108-88-3	Toluene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
591-78-6	Methyl Butyl Ketone (2-Hexanone)	10.0	U
142-28-9	1,3-Dichloropropane	5.00	U
124-48-1	Dibromochloromethane	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
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1 - FORM I
ANALYSIS DATA SHEET

Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-06	File ID:	3100519-06.D
Sampled:	10/04/23 00:01	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 16:45
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
127-18-4	Tetrachloroethene	5.00	U
106-93-4	1,2-Dibromoethane	5.00	U
108-90-7	Chlorobenzene	5.00	U
630-20-6	1,1,1,2-Tetrachloroethane	5.00	U
100-41-4	Ethylbenzene	5.00	U
108-38-3/106-42-3	m,p-Xylenes	10.0	4.C, U
100-42-5	Styrene	5.00	U
95-47-6	o-Xylene	5.00	4.C, U
75-25-2	Bromoform	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
98-82-8	Isopropylbenzene (Cumene)	5.00	U
96-18-4	1,2,3-Trichloropropane	5.00	U
108-86-1	Bromobenzene	5.00	U
103-65-1	n-Propylbenzene	5.00	U
95-49-8	2-Chlorotoluene	5.00	U
622-96-8	4-Ethyltoluene	5.00	2.B, U
106-43-4	4-Chlorotoluene	5.00	U
108-67-8	1,3,5-Trimethylbenzene	5.00	U
98-06-6	tert-Butylbenzene	5.00	U
95-63-6	1,2,4-Trimethylbenzene	5.00	U
135-98-8	sec-Butylbenzene	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

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1 - FORM I
ANALYSIS DATA SHEET

Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-06	File ID:	3100519-06.D
Sampled:	10/04/23 00:01	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 16:45
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
99-87-6	4-Isopropyltoluene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
105-05-5	1,4-Diethylbenzene	5.00	2.B, U
104-51-8	n-Butylbenzene	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane	5.00	U
95-93-2	1,2,4,5-Tetramethylbenzene	5.00	2.B, U
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	5.00	4.C, U
87-68-3	Hexachlorobutadiene	5.00	U
87-61-6	1,2,3-Trichlorobenzene	5.00	4.C, U

* Values outside of QC limits

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

EQ

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-07	File ID:	3100519-07.D
Sampled:	10/04/23 09:00	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 17:10
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	5.00	U
75-45-6	Chlorodifluoromethane	5.00	2.B, U
74-87-3	Chloromethane	5.00	U
75-01-4	Vinyl chloride	5.00	U
74-83-9	Bromomethane	5.00	U
75-00-3	Chloroethane	5.00	U
75-69-4	Trichlorofluoromethane	5.00	U
107-02-8	Acrolein	5.00	U
67-64-1	Acetone	10.0	U
75-35-4	1,1-Dichloroethene	5.00	U
75-65-0	tert-Butyl alcohol	5.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	U
79-20-9	Methyl Acetate	5.00	U
107-13-1	Acrylonitrile	5.00	U
75-09-2	Methylene Chloride	5.00	U
75-15-0	Carbon disulfide	5.00	U
1634-04-4	Methyl-tert-Butyl Ether	5.00	U
156-60-5	trans-1,2-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
108-05-4	Vinyl Acetate	5.00	U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	10.0	U
156-59-2	cis-1,2-Dichloroethene	5.00	U

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1 - FORM I
ANALYSIS DATA SHEET

EQ

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-07	File ID:	3100519-07.D
Sampled:	10/04/23 09:00	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 17:10
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
594-20-7	2,2-Dichloropropane	5.00	U
74-97-5	Bromochloromethane	5.00	U
67-66-3	Chloroform	5.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
563-58-6	1,1-Dichloropropene	5.00	U
56-23-5	Carbon Tetrachloride	5.00	4.N, U
71-43-2	Benzene	5.00	U
79-01-6	Trichloroethene	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
74-95-3	Dibromomethane	5.00	U
123-91-1	1,4-Dioxane	100	4.J, U
75-27-4	Bromodichloromethane	5.00	U
110-75-8	2-Chloroethyl Vinyl Ether	5.00	U
108-10-1	4-Methyl-2-Pentanone	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
108-88-3	Toluene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
591-78-6	Methyl Butyl Ketone (2-Hexanone)	10.0	U
142-28-9	1,3-Dichloropropane	5.00	U
124-48-1	Dibromochloromethane	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

EQ

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-07	File ID:	3100519-07.D
Sampled:	10/04/23 09:00	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 17:10
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
127-18-4	Tetrachloroethene	5.00	U
106-93-4	1,2-Dibromoethane	5.00	U
108-90-7	Chlorobenzene	5.00	U
630-20-6	1,1,1,2-Tetrachloroethane	5.00	U
100-41-4	Ethylbenzene	5.00	U
108-38-3/106-42-3	m,p-Xylenes	10.0	4.C, U
100-42-5	Styrene	5.00	U
95-47-6	o-Xylene	5.00	4.C, U
75-25-2	Bromoform	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
98-82-8	Isopropylbenzene (Cumene)	5.00	U
96-18-4	1,2,3-Trichloropropane	5.00	U
108-86-1	Bromobenzene	5.00	U
103-65-1	n-Propylbenzene	5.00	U
95-49-8	2-Chlorotoluene	5.00	U
622-96-8	4-Ethyltoluene	5.00	2.B, U
106-43-4	4-Chlorotoluene	5.00	U
108-67-8	1,3,5-Trimethylbenzene	5.00	U
98-06-6	tert-Butylbenzene	5.00	U
95-63-6	1,2,4-Trimethylbenzene	5.00	U
135-98-8	sec-Butylbenzene	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U

1 - FORM I
ANALYSIS DATA SHEET

EQ

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-07	File ID:	3100519-07.D
Sampled:	10/04/23 09:00	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 17:10
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
99-87-6	4-Isopropyltoluene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
105-05-5	1,4-Diethylbenzene	5.00	2.B, U
104-51-8	n-Butylbenzene	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane	5.00	U
95-93-2	1,2,4,5-Tetramethylbenzene	5.00	2.B, U
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	5.00	4.C, U
87-68-3	Hexachlorobutadiene	5.00	U
87-61-6	1,2,3-Trichlorobenzene	5.00	4.C, U

* Values outside of QC limits

LONG
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LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

VOLATILES CALIBRATION DATA

110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
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6 - FORM VI
INITIAL CALIBRATION DATA SHEET

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L404001	Instrument:	ChemStation05
		Calibration Date:	10/ 2/2023 2:46:00PM

COMPOUND	CAL 01	CAL 02	CAL 03	CAL 04	CAL 05	CAL 06
Dichlorodifluoromethane	146.6798	170.3581	178.405	175.3801	180.172	183.5488
Chlorodifluoromethane	352.9495	349.7838	371.2871	369.0939	380.2882	384.6303
Chloromethane	139.6008	149.4983	154.9498	147.8472	152.2779	148.8326
Vinyl chloride	148.8218	181.7027	194.5596	180.8555	169.8677	149.6283
Bromomethane	184.9511	158.1186	141.0286	130.7764	128.3474	122.0932
Chloroethane	97.20849	101.2564	104.3521	108.2424	110.4441	111.6815
Trichlorofluoromethane	312.1892	312.8169	330.8336	330.1034	339.0609	343.3365
Acrolein	69.9738	52.97465	51.70951	57.46199	59.95838	65.49178
Acetone	350.889	196.5471	155.0342	132.759	133.5153	142.4074
1,1-Dichloroethene	348.0125	366.408	374.4237	378.3823	387.7466	390.737
tert-Butyl alcohol	712.2639	718.8863	723.2482	756.9005	781.6501	793.5301
1,1,2-Trichloro-1,2,2-trifluoroethane	267.8181	239.072	244.4278	250.3203	254.252	257.283
Methyl Acetate	396.9942	386.7408	361.2171	333.7766	374.9669	385.5835
Acrylonitrile	160.5113	151.278	138.7109	146.0186	162.2795	170.5886
Methylene Chloride	405.44	413.2679	402.4944	412.7975	417.4496	416.1538
Carbon disulfide	437.1424	504.2535	507.5065	530.446	525.4911	531.6735
Methyl-tert-Butyl Ether	938.9341	975.2884	971.83	943.134	981.727	1048.583
trans-1,2-Dichloroethene	344.2384	353.1246	362.3189	369.7608	375.4093	383.6697
1,1-Dichloroethane	483.982	493.9926	500.9206	506.7484	514.881	521.4333
Vinyl Acetate	367.2094	406.5765	427.1407	493.3367	545.6142	576.1963
Methyl Ethyl Ketone (2-Butanone)	32.92644	38.73672	40.93483	40.45206	45.64611	50.84148
cis-1,2-Dichloroethene	344.2384	353.1246	362.3189	369.7608	375.4093	383.6697
2,2-Dichloropropane	398.6262	396.5543	410.0531	419.0006	421.4447	416.6066
Bromochloromethane	195.0902	213.6187	214.8682	226.2072	238.5378	240.1078
Chloroform	538.4106	521.166	543.4585	553.0651	562.3103	569.1032
1,1,1-Trichloroethane	425.8201	438.1545	441.4143	454.6118	461.5081	471.2564
Dibromofluoromethane	550.0338	543.2626	544.1275	547.238	544.4827	546.5982
1,2-Dichloroethane	445.8534	439.5862	431.0565	443.3063	452.5869	463.9813
1,1-Dichloropropene	306.6199	311.4647	323.7018	327.8836	337.897	346.2228

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L404001	Instrument:	ChemStation05
		Calibration Date:	10/ 2/2023 2:46:00PM

COMPOUND	CAL 01	CAL 02	CAL 03	CAL 04	CAL 05	CAL 06
Carbon Tetrachloride	355.5811	366.8554	382.3397	398.9175	409.8113	425.7982
Benzene	1055.768	1062.993	1085.999	1110.474	1141.602	1162.44
Trichloroethene	188.2429	184.0241	187.4348	191.4653	195.7705	197.7989
1,2-Dichloropropane	157.9904	174.1334	172.8185	175.3594	181.449	184.8496
Dibromomethane	131.8496	137.8874	142.1496	146.3163	156.2408	159.4009
1,4-Dioxane	2.711749	3.045251	3.119077	3.20036	3.621656	3.953052
Bromodichloromethane	241.3324	246.2733	258.4378	263.4531	277.4052	282.1659
2-Chloroethyl Vinyl Ether	17.74875	19.35273	21.47883	26.08019	37.05564	43.77153
4-Methyl-2-Pentanone	84.04131	75.20386	81.32758	83.01953	93.40033	98.99275
cis-1,3-Dichloropropene	259.4791	272.9222	274.8012	287.4126	302.9998	310.7426
1,2-Dichloroethane-d4	339.7554	338.1503	335.5036	321.6839	325.1521	326.2956
Toluene	684.569	686.2675	710.1205	712.6268	742.438	764.774
trans-1,3-Dichloropropene	252.9318	253.3875	262.1256	273.051	296.7502	302.7921
1,1,2-Trichloroethane	184.4568	187.5401	191.1783	189.7715	203.8516	207.6827
Methyl Butyl Ketone (2-Hexanone)	73.63562	80.41624	80.9758	79.42149	93.93319	99.7559
1,3-Dichloropropane	279.9649	289.4398	286.0492	290.2437	307.6196	313.2175
Dibromochloromethane	227.8762	230.959	232.2715	242.7905	259.3266	266.6304
Tetrachloroethene	196.43	180.9131	187.4934	188.9717	195.7526	200.081
1,2-Dibromoethane	194.5972	201.6158	204.493	207.123	219.3299	223.6298
Chlorobenzene	529.9026	508.3981	518.1343	533.7149	550.1287	559.7059
1,1,1,2-Tetrachloroethane	192.2394	199.6755	198.5768	212.2148	215.6821	221.0228
Ethylbenzene	788.7201	752.8448	765.0964	791.0391	820.8322	843.4347
m,p-Xylenes	632.8516	591.9433	611.6823	619.1591	646.2383	672.3072
Styrene	434.9401	531.0625	553.6461	575.8295	607.0272	623.7098
o-Xylene	533.8838	637.7919	654.5033	677.1966	699.3358	717.6804
Bromoform	142.5217	175.6752	182.8309	188.6695	205.6215	217.8769
1,1,2,2-Tetrachloroethane	238.1678	258.0442	261.1219	271.1387	293.5475	307.1422
Isopropylbenzene (Cumene)	763.3336	711.1463	752.8544	787.3402	809.3075	853.5282
1,2,3-Trichloropropane	84.46975	84.94792	82.74656	82.0704	89.41604	93.52639

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
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AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L404001	Instrument:	ChemStation05
		Calibration Date:	10/ 2/2023 2:46:00PM

COMPOUND	CAL 01	CAL 02	CAL 03	CAL 04	CAL 05	CAL 06
Toluene-d8	1153.348	1151.385	1145.962	1150.327	1136.925	1142.993
Bromobenzene	322.8773	308.9781	318.2338	325.8445	342.6816	351.8136
n-Propylbenzene	892.3047	788.7349	843.5547	873.0756	923.4909	973.4232
2-Chlorotoluene	556.5482	502.8452	515.1956	545.1998	577.5224	595.644
4-Ethyltoluene	888.923	741.4661	756.2141	785.4458	831.6782	873.9231
4-Chlorotoluene	491.517	478.5022	518.9648	571.4008	613.4138	649.7068
1,3,5-Trimethylbenzene	705.3416	626.0531	659.4376	684.1219	716.1814	750.6761
tert-Butylbenzene	140.603	124.6658	131.9769	139.5559	144.8363	151.1672
1,2,4-Trimethylbenzene	900.8668	709.607	712.6304	735.2961	776.9914	811.9138
sec-Butylbenzene	758.0453	667.0721	717.8992	761.8421	813.0103	861.1465
4-Bromofluorobenzene	812.2751	811.8821	797.4032	788.391	754.3414	747.3241
1,3-Dichlorobenzene	766.9184	696.1564	689.412	711.4022	732.5269	747.0965
4-Isopropyltoluene	1243.063	1088.706	1127.684	1148.312	1170.498	1226.345
1,4-Dichlorobenzene	748.9151	692.9592	700.8303	700.9893	712.9876	744.2545
1,2-Dichlorobenzene	738.3015	693.2689	709.7546	724.6719	750.5321	763.6785
1,4-Diethylbenzene	885.8027	606.8738	598.4658	605.4107	628.8222	658.8822
n-Butylbenzene	1316.751	969.1098	1003.93	1039.846	1072.878	1154.305
1,2-Dibromo-3-chloropropane	107.4335	100.1632	98.7996	99.64151	117.5492	128.5578
1,2,4,5-Tetramethylbenzene	302.5596	1030.686	1023.713	1049.453	1103.722	1159.565
1,2,4-Trichlorobenzene	417.32	338.7063	339.7952	347.3727	393.047	428.7527
Naphthalene	1456.883	928.435	798.366	790.6553	1026.39	1165.027
Hexachlorobutadiene	182.1889	153.0173	151.1589	151.2116	153.5318	162.3395
1,2,3-Trichlorobenzene	368.3134	294.0551	298.7867	302.925	355.6647	392.6966

LONG ISLAND ANALYTICAL LABORATORIES INC.
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NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L404001	Instrument:	ChemStation05
		Calibration Date:	10/ 2/2023 2:46:00PM

COMPOUND	CAL 07	CAL 08	CAL 09	CAL 10	CAL 11	CAL 12
Dichlorodifluoromethane	190.7	188.5196	193.0692			
Chlorodifluoromethane	388.0175	393.9233	402.6669			
Chloromethane	144.7895	149.3678	149.4577			
Vinyl chloride	121.6037	101.5016	99.80394			
Bromomethane	114.8472	116.4224	115.4811			
Chloroethane	110.1679	113.4825	114.261			
Trichlorofluoromethane	355.2671	352.2874	362.257			
Acrolein	64.56495	63.92871	64.06029			
Acetone	142.1525	139.9202	135.6086			
1,1-Dichloroethene	400.0442	401.1254	407.4066			
tert-Butyl alcohol	785.9874	823.7147	830.3786			
1,1,2-Trichloro-1,2,2-trifluoroethane	267.537	268.9313	275.97			
Methyl Acetate	386.1261	379.3949	378.6911			
Acrylonitrile	167.4639	170.7843	165.37			
Methylene Chloride	403.4953	415.7222	410.9907			
Carbon disulfide	540.6398	551.148	562.1011			
Methyl-tert-Butyl Ether	1050.834	1086.926	1090.646			
trans-1,2-Dichloroethene	378.1189	392.9189	401.673			
1,1-Dichloroethane	515.7858	536.9888	543.2169			
Vinyl Acetate	581.0431	606.8199	604.7489			
Methyl Ethyl Ketone (2-Butanone)	50.61587	51.23976	50.82793			
cis-1,2-Dichloroethene	378.1189	392.9189	401.673			
2,2-Dichloropropane	418.2226	427.9098	432.2878			
Bromochloromethane	235.3957	245.0153	247.4083			
Chloroform	561.8919	589.1984	597.9229			
1,1,1-Trichloroethane	477.1591	490.7112	504.2269			
Dibromofluoromethane	543.99	550.291	549.3997			
1,2-Dichloroethane	453.5893	475.2942	480.0101			

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L404001	Instrument:	ChemStation05
		Calibration Date:	10/ 2/2023 2:46:00PM

COMPOUND	CAL 07	CAL 08	CAL 09	CAL 10	CAL 11	CAL 12
1,1-Dichloropropene	354.5595	364.634	372.3376			
Carbon Tetrachloride	433.2218	448.1903	462.2252			
Benzene	1151.188	1205.777	1219.056			
Trichloroethene	199.4899	204.4048	209.7101			
1,2-Dichloropropane	181.1582	188.9021	190.2873			
Dibromomethane	154.9221	161.7655	164.0727			
1,4-Dioxane	3.94948	3.995979	3.941114			
Bromodichloromethane	278.1029	290.4772	296.7011			
2-Chloroethyl Vinyl Ether	46.05383	51.9385	54.27805			
4-Methyl-2-Pentanone	100.0155	100.8215	101.1955			
cis-1,3-Dichloropropene	304.3335	317.3751	323.7454			
1,2-Dichloroethane-d4	329.3217	324.6584	326.7791			
Toluene	765.1721	808.7033	823.4781			
trans-1,3-Dichloropropene	301.3036	322.8128	329.6121			
1,1,2-Trichloroethane	204.147	213.1104	215.7588			
Methyl Butyl Ketone (2-Hexanone)	102.9276	103.5259	104.4861			
1,3-Dichloropropane	309.9647	324.79	329.1033			
Dibromochloromethane	264.9492	279.9802	287.279			
Tetrachloroethene	203.0165	210.929	215.8811			
1,2-Dibromoethane	221.7014	233.068	237.5528			
Chlorobenzene	553.7055	582.3102	589.6034			
1,1,1,2-Tetrachloroethane	216.8132	228.3414	229.6548			
Ethylbenzene	850.1948	897.2906	910.652			
m,p-Xylenes	676.6048	710.8287	695.5205			
Styrene	623.1381	669.7113	682.2867			
o-Xylene	719.0912	765.4661	778.7997			
Bromoform	220.1445	229.1858	230.9303			
1,1,2,2-Tetrachloroethane	311.8428	317.0285	316.4963			

LONG ISLAND ANALYTICAL LABORATORIES INC.
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NJDEP# NY012
PADEP# 68-2943

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L404001	Instrument:	ChemStation05
		Calibration Date:	10/ 2/2023 2:46:00PM

COMPOUND	CAL 07	CAL 08	CAL 09	CAL 10	CAL 11	CAL 12
Isopropylbenzene (Cumene)	866.3372	909.8732	926.0832			
1,2,3-Trichloropropane	94.98191	95.29068	95.07559			
Toluene-d8	1131.042	1130.538	1125.537			
Bromobenzene	349.7871	368.2074	371.5169			
n-Propylbenzene	993.2867	1040.2	1039.382			
2-Chlorotoluene	602.1317	642.5747	648.115			
4-Ethyltoluene	888.8163	939.4106	940.4337			
4-Chlorotoluene	652.5107	695.6431	706.4799			
1,3,5-Trimethylbenzene	755.1764	797.0711	804.0499			
tert-Butylbenzene	153.9947	158.4371	162.2683			
1,2,4-Trimethylbenzene	817.7443	858.8617	864.0711			
sec-Butylbenzene	881.7408	915.8203	934.6672			
4-Bromofluorobenzene	740.1964	745.6156	726.9429			
1,3-Dichlorobenzene	739.4564	773.8809	785.6042			
4-Isopropyltoluene	1237.07	1277.016	1287.439			
1,4-Dichlorobenzene	732.2918	768.2402	783.8053			
1,2-Dichlorobenzene	755.8116	791.775	799.9064			
1,4-Diethylbenzene	661.1207	692.8811	710.3864			
n-Butylbenzene	1158.425	1211.387	1239.943			
1,2-Dibromo-3-chloropropane	131.9376	133.2032	130.8418			
1,2,4,5-Tetramethylbenzene	1150.064	1218.967	1217.6			
1,2,4-Trichlorobenzene	428.378	442.7242	447.9614			
Naphthalene	1228.35	1272.882	1304.502			
Hexachlorobutadiene	159.8679	165.0765	166.5703			
1,2,3-Trichlorobenzene	395.3226	410.4876	418.7162			

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L404001	Instrument:	ChemStation05
		Calibration Date:	10/ 2/2023 2:46:00PM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Dichlorodifluoromethane	178.537	7.867286		0.9998291	0.99	
Chlorodifluoromethane	376.9601	4.736102		0.9999918	0.99	
Chloromethane	148.5135	2.935369		0.9997908	0.99	
Vinyl chloride	149.8161	23.61887	0.9565222		0.99	*
Bromomethane	134.674	17.46514		0.9994586	0.99	
Chloroethane	107.8996	5.371088		0.9999395	0.99	
Trichlorofluoromethane	337.5724	5.270878		0.9998656	0.99	
Acrolein	61.1249	9.94361				
Acetone	169.8704	41.622	0.9989708		0.99	
1,1-Dichloroethene	383.8096	4.94823		0.9999641	0.99	
tert-Butyl alcohol	769.6178	5.770384			20	
1,1,2-Trichloro-1,2,2-trifluoroethane	258.4013	4.826448		0.9999053	0.99	
Methyl Acetate	375.9435	4.951093	0.9996573		0.99	
Acrylonitrile	159.2228	7.153174		0.9994311	0.99	
Methylene Chloride	410.8679	1.3829	0.9998102		0.99	
Carbon disulfide	521.1558	7.017993		0.9999879	0.99	
Methyl-tert-Butyl Ether	1009.767	5.917119		0.9997197	0.99	
trans-1,2-Dichloroethene	373.4703	4.927777			20	
1,1-Dichloroethane	513.1055	3.748312			20	
Vinyl Acetate	512.0762	17.90321		0.9996374	0.99	
Methyl Ethyl Ketone (2-Butanone)	44.69125	15.01696	0.9992855		0.99	
cis-1,2-Dichloroethene	373.4703	4.927777			20	
2,2-Dichloropropane	415.634	2.903718		0.9999657	0.99	
Bromochloromethane	228.4721	7.647172		0.9998679	0.99	
Chloroform	559.6141	4.320678	0.9992421		0.99	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L404001	Instrument:	ChemStation05
		Calibration Date:	10/ 2/2023 2:46:00PM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
1,1,1-Trichloroethane	462.7625	5.548335			20	
Dibromofluoromethane	546.6026	0.5101822			20	
1,2-Dichloroethane	453.9182	3.608719			20	
1,1-Dichloropropene	338.369	6.791421				
Carbon Tetrachloride	409.2156	8.928741			20	
Benzene	1132.811	5.180875			20	
Trichloroethene	195.3713	4.313034			20	
1,2-Dichloropropane	178.5498	5.548113			20	
Dibromomethane	150.5117	7.564441			20	
1,4-Dioxane	3.504191	14.00046		0.9993907	0.99	
Bromodichloromethane	270.4832	7.11149			20	
2-Chloroethyl Vinyl Ether	35.30645	40.87184		0.9977385	0.99	
4-Methyl-2-Pentanone	90.89088	11.04622		0.9996829	0.99	
cis-1,3-Dichloropropene	294.8679	7.526608		0.9998822	0.99	
1,2-Dichloroethane-d4	329.7	1.96806			20	
Toluene	744.2388	6.782176			20	
trans-1,3-Dichloropropene	288.3074	10.06451				
1,1,2-Trichloroethane	199.7219	5.844093			20	
Methyl Butyl Ketone (2-Hexanone)	91.00865	13.53792		0.9994592	0.99	
1,3-Dichloropropane	303.377	5.819624			20	
Dibromochloromethane	254.6736	8.666662			20	
Tetrachloroethene	197.7187	5.674574			20	
1,2-Dibromoethane	215.9012	6.818579			20	
Chlorobenzene	547.2893	5.032829			20	
1,1,1,2-Tetrachloroethane	212.6912	6.253323			20	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L404001	Instrument:	ChemStation05
		Calibration Date:	10/ 2/2023 2:46:00PM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Ethylbenzene	824.4561	6.755401		0.9998506	0.99	
m,p-Xylenes	650.7929	6.210891		0.9994143	0.99	
Styrene	589.039	12.93283		0.9997688	0.99	
o-Xylene	687.0832	10.76002		0.9998334	0.99	
Bromoform	199.2729	14.71567		0.9997371	0.99	
1,1,2,2-Tetrachloroethane	286.0589	10.32129		0.9997741	0.99	
Isopropylbenzene (Cumene)	819.9782	8.977521		0.9998142	0.99	
1,2,3-Trichloropropane	89.16947	6.353085		0.9997368	0.99	
Toluene-d8	1140.895	0.8983015			20	
Bromobenzene	339.9934	6.544829		0.9998342	0.99	
n-Propylbenzene	929.717	9.478896		0.9995989	0.99	
2-Chlorotoluene	576.1974	8.908641		0.9996849	0.99	
4-Ethyltoluene	849.5901	8.81241		0.9995649	0.99	
4-Chlorotoluene	597.571	14.46286		0.9997114	0.99	
1,3,5-Trimethylbenzene	722.0121	8.361431		0.9997469	0.99	
tert-Butylbenzene	145.2784	8.531842		0.9999227	0.99	
1,2,4-Trimethylbenzene	798.6647	8.709113		0.9997219	0.99	
sec-Butylbenzene	812.3604	11.38166		0.9997878	0.99	
4-Bromofluorobenzene	769.3746	4.291934			20	
1,3-Dichlorobenzene	738.0504	4.625574	0.9992327		0.99	
4-Isopropyltoluene	1200.681	5.789245		0.9998569	0.99	
1,4-Dichlorobenzene	731.697	4.389269	0.9989786		0.99	
1,2-Dichlorobenzene	747.5223	4.733947	0.9993433		0.99	
1,4-Diethylbenzene	672.0717	13.2938	0.9984941		0.99	
n-Butylbenzene	1129.619	10.29309		0.9997637	0.99	

LONG ISLAND ANALYTICAL LABORATORIES INC.
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NJDEP# NY012
PADEP# 68-2943

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Calibration:	L404001	Instrument:	ChemStation05
		Calibration Date:	10/ 2/2023 2:46:00PM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromo-3-chloropropane	116.4586	12.93753		0.9989661	0.99	
1,2,4,5-Tetramethylbenzene	1028.481	27.43879	0.9992222		0.99	
1,2,4-Trichlorobenzene	398.2286	11.31012		0.9995016	0.99	
Naphthalene	1107.943	21.185		0.9982156	0.99	
Hexachlorobutadiene	160.5514	6.267485		0.9998405	0.99	
1,2,3-Trichlorobenzene	359.6631	13.81599		0.9993407	0.99	

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NYSDOH ELAP# 11693
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NJDEP# NY012
PADEP# 68-2943

INITIAL CALIBRATION STANDARDS

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Sequence:	S403063	Instrument:	ChemStation05
Calibration:	L404001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
2400367	NPW Cal 2.5 PPB	S403063-CAL1	SEQ-CAL1.D	10/02/23 16:47
2400368	NPW Cal 5 PPB	S403063-CAL2	SEQ-CAL2.D	10/02/23 17:11
2400369	NPW Cal 10 PPB	S403063-CAL3	SEQ-CAL3.D	10/02/23 17:36
2400370	NPW Cal 25 PPB	S403063-CAL4	SEQ-CAL4.D	10/02/23 18:00
2400371	NPW Cal 50 PPB	S403063-CAL5	SEQ-CAL5.D	10/02/23 18:25
2400372	NPW Cal 75 PPB	S403063-CAL6	SEQ-CAL6.D	10/02/23 18:50
2400374	NPW Cal 100 PPB	S403063-CAL7	SEQ-CAL7.D	10/02/23 19:14
2400375	NPW Cal 150 PPB	S403063-CAL8	SEQ-CAL8.D	10/02/23 19:39
2400376	NPW Cal 200 PPB	S403063-CAL9	SEQ-CAL9.D	10/02/23 20:04

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Laboratory:	Work Order:
Client:	Project:
Instrument ID:	Calibration:
Lab File ID:	Calibration Date:
Sequence:	Injection Date:
Lab Sample ID:	Injection Time:

				RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Instrument ID:	ChemStation05	Calibration:	L404001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/24/24 14:46
Sequence:	S341026	Injection Date:	10/10/23
Lab Sample ID:	S341026-CCV1	Injection Time:	10:10

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	Q	50.0	54.8	178.537	195.5717		9.5	20
Chlorodifluoromethane	Q	50.0	49.3	376.9601	371.551		-1.4	20
Chloromethane	Q	50.0	49.7	148.5135	147.7815		-0.7	20
Vinyl chloride	L	50.0	55.6	149.8161	183.5746		11.3	20
Bromomethane	Q	50.0	53.6	134.674	130.485		7.1	20
Chloroethane	Q	50.0	48.9	107.8996	108.8883		-2.2	20
Trichlorofluoromethane	Q	50.0	51.1	337.5724	356.651		2.2	20
Acrolein	A	50.0	48.9	61.1249	59.82246		-2.1	20
Acetone	L	50.0	42.0	169.8704	119.5595		-16.1	20
1,1-Dichloroethene	Q	50.0	46.2	383.8096	359.8254		-7.6	20
tert-Butyl alcohol	A	50.0	43.6	769.6178	671.2976		-12.8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	Q	50.0	52.6	258.4013	278.5158		5.3	20
Methyl Acetate	L	50.0	41.6	375.9435	312.9067		-16.8	20
Acrylonitrile	Q	50.0	44.7	159.2228	150.582		-10.6	20
Methylene Chloride	L	50.0	44.6	410.8679	368.0288		-10.7	20
Carbon disulfide	Q	50.0	57.8	521.1558	629.041		15.7	20
Methyl-tert-Butyl Ether	Q	50.0	44.3	1009.767	921.4416		-11.4	20
trans-1,2-Dichloroethene	A	50.0	44.1	373.4703	337.7251		-9.6	20
1,1-Dichloroethane	A	50.0	45.0	513.1055	470.2536		-8.4	20
Vinyl Acetate	Q	50.0	50.6	512.0762	571.5305		1.2	20
Methyl Ethyl Ketone (2-Butanone)	L	50.0	51.3	44.69125	45.86124		2.6	20
cis-1,2-Dichloroethene	A	50.0	45.2	373.4703	337.7251		-9.6	20
2,2-Dichloropropane	Q	50.0	50.0	415.634	422.4584		-0.02	20

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Instrument ID:	ChemStation05	Calibration:	L404001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/24/24 14:46
Sequence:	S341026	Injection Date:	10/10/23
Lab Sample ID:	S341026-CCV1	Injection Time:	10:10

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromochloromethane	Q	50.0	47.2	228.4721	215.537		-5.7	20	
Chloroform	L	50.0	45.5	559.6141	520.8413		-9.0	20	
1,1,1-Trichloroethane	A	50.0	46.4	462.7625	443.5133		-4.2	20	
1,2-Dichloroethane	A	50.0	44.4	453.9182	409.4189		-9.8	20	
1,1-Dichloropropene	A	50.0	46.4	338.369	326.3824		-7.2	20	
Carbon Tetrachloride	A	50.0	46.2	409.2156	398.2421		-2.7	20	
Benzene	A	50.0	44.9	1132.811	1076.265		-5.0	20	
Trichloroethene	A	50.0	50.3	195.3713	195.9945		0.3	20	
1,2-Dichloropropane	A	50.0	46.9	178.5498	172.6759		-3.3	20	
Dibromomethane	A	50.0	49.0	150.5117	151.2777		0.5	20	
1,4-Dioxane	Q	500	269	3.504191	2.0691		-46.1	20	*
Bromodichloromethane	A	50.0	46.8	270.4832	264.1338		-2.3	20	
2-Chloroethyl Vinyl Ether	Q	50.0	42.1	35.30645	33.59525		-15.7	20	
4-Methyl-2-Pentanone	Q	50.0	46.6	90.89088	90.18071		-6.9	20	
cis-1,3-Dichloropropene	Q	50.0	47.1	294.8679	290.2745		-5.8	20	
Toluene	A	50.0	50.1	744.2388	748.4761		0.6	20	
trans-1,3-Dichloropropene	A	50.0	48.5	288.3074	284.9235		-3.0	20	
1,1,2-Trichloroethane	A	50.0	48.0	199.7219	198.5055		-0.6	20	
Methyl Butyl Ketone (2-Hexanone)	Q	50.0	47.0	91.00865	92.04964		-6.0	20	
1,3-Dichloropropane	A	50.0	48.4	303.377	296.3575		-2.3	20	
Dibromochloromethane	A	50.0	49.0	254.6736	252.9159		-0.7	20	
Tetrachloroethene	A	50.0	50.7	197.7187	207.2956		4.8	20	
1,2-Dibromoethane	A	50.0	49.2	215.9012	212.2473		-1.7	20	

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Instrument ID:	ChemStation05	Calibration:	L404001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/24/24 14:46
Sequence:	S341026	Injection Date:	10/10/23
Lab Sample ID:	S341026-CCV1	Injection Time:	10:10

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Chlorobenzene	A	50.0	48.4	547.2893	545.6326		-0.3	20
1,1,1,2-Tetrachloroethane	A	50.0	49.3	212.6912	212.9221		0.1	20
Ethylbenzene	Q	50.0	50.4	824.4561	835.0403		0.8	20
m,p-Xylenes	Q	100	99.0	650.7929	663.5671		-1.0	20
Styrene	Q	50.0	49.5	589.039	601.3777		-1.0	20
o-Xylene	Q	50.0	49.9	687.0832	700.1374		-0.3	20
Bromoform	Q	50.0	47.6	199.2729	202.3538		-4.8	20
1,1,2,2-Tetrachloroethane	Q	50.0	47.8	286.0589	291.5583		-4.4	20
Isopropylbenzene (Cumene)	Q	50.0	51.2	819.9782	855.3283		2.4	20
1,2,3-Trichloropropane	Q	50.0	48.3	89.16947	89.435		-3.4	20
Bromobenzene	Q	50.0	48.6	339.9934	334.2957		-2.9	20
n-Propylbenzene	Q	50.0	50.7	929.717	974.7824		1.3	20
2-Chlorotoluene	Q	50.0	50.0	576.1974	585.9962		0.06	20
4-Ethyltoluene	Q	50.0	52.7	849.5901	907.1799		5.4	20
4-Chlorotoluene	Q	50.0	50.8	597.571	624.9276		1.5	20
1,3,5-Trimethylbenzene	Q	50.0	50.7	722.0121	746.0591		1.5	20
tert-Butylbenzene	Q	50.0	51.7	145.2784	153.337		3.4	20
1,2,4-Trimethylbenzene	Q	50.0	49.9	798.6647	795.87		-0.1	20
sec-Butylbenzene	Q	50.0	52.1	812.3604	878.297		4.2	20
1,3-Dichlorobenzene	L	50.0	51.0	738.0504	746.154		2.0	20
4-Isopropyltoluene	Q	50.0	52.3	1200.681	1263.387		4.6	20
1,4-Dichlorobenzene	L	50.0	50.8	731.697	733.0032		1.6	20
1,2-Dichlorobenzene	L	50.0	49.7	747.5223	745.0116		-0.5	20
1,4-Diethylbenzene	L	50.0	51.5	672.0717	659.8079		2.9	20

LONG ISLAND ANALYTICAL LABORATORIES INC.
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NYSDOH ELAP# 11693
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7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA 8260 D

Laboratory:	Long Island Analytical Laboratories, Inc.	Work Order:	3100519
Client:	Alpha Geoscience	Project:	Ranco Sand & Stone
Instrument ID:	ChemStation05	Calibration:	L404001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/24/24 14:46
Sequence:	S341026	Injection Date:	10/10/23
Lab Sample ID:	S341026-CCV1	Injection Time:	10:10

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
n-Butylbenzene	Q	50.0	52.1	1129.619	1163.569		4.1	20
1,2-Dibromo-3-chloropropane	Q	50.0	46.4	116.4586	117.5038		-7.2	20
1,2,4,5-Tetramethylbenzene	L	50.0	50.9	1028.481	1153.948		1.8	20
1,2,4-Trichlorobenzene	Q	50.0	47.4	398.2286	390.7566		-5.2	20
Naphthalene	Q	50.0	41.2	1107.943	914.2082		-17.6	20
Hexachlorobutadiene	Q	50.0	53.8	160.5514	170.1574		7.6	20
1,2,3-Trichlorobenzene	Q	50.0	47.7	359.6631	342.8693		-4.7	20
Dibromofluoromethane	A	50.0	47.0	546.6026	514.3236		-5.9	20
1,2-Dichloroethane-d4	A	50.0	48.8	329.7	321.591		-2.5	20
Toluene-d8	A	50.0	49.7	1140.895	1133.946		-0.6	20
4-Bromofluorobenzene	A	50.0	48.9	769.3746	752.4054		-2.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

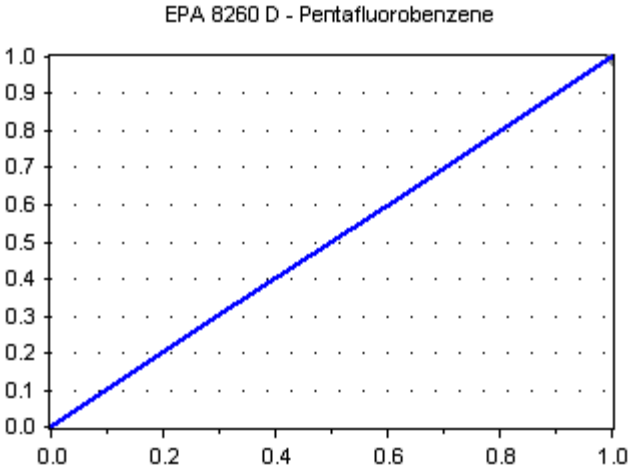
* Values outside of QC limits

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Pentafluorobenzene

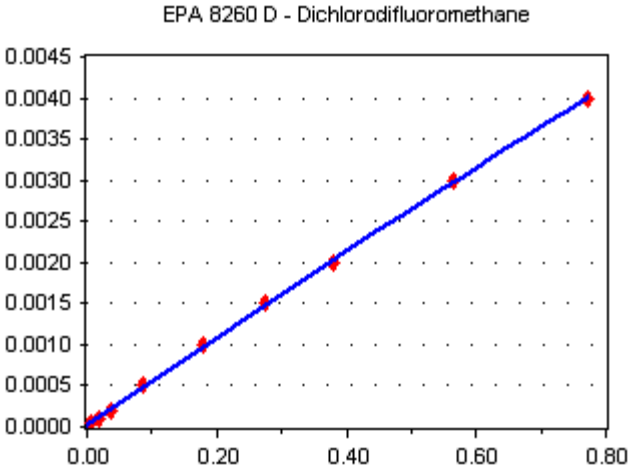


Average RF

RF RSD: 0

[Conc] = 1 * [Response]

Dichlorodifluoromethane

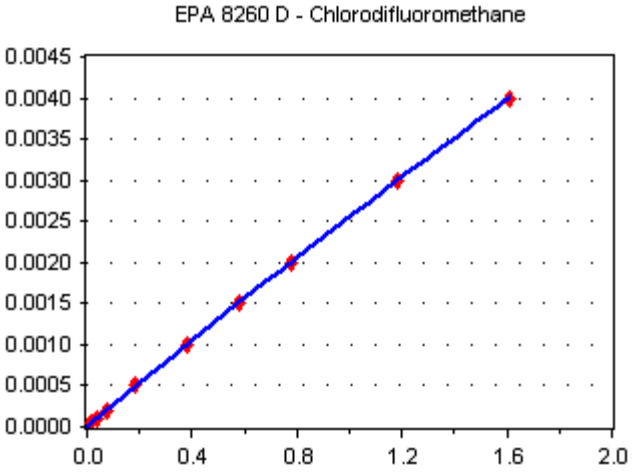


Quadratic Regression

Not Specified

Not Specified

Chlorodifluoromethane



Quadratic Regression

Not Specified

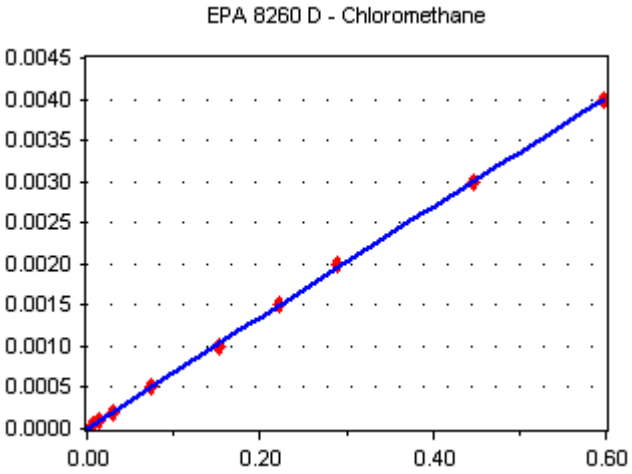
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Chloromethane

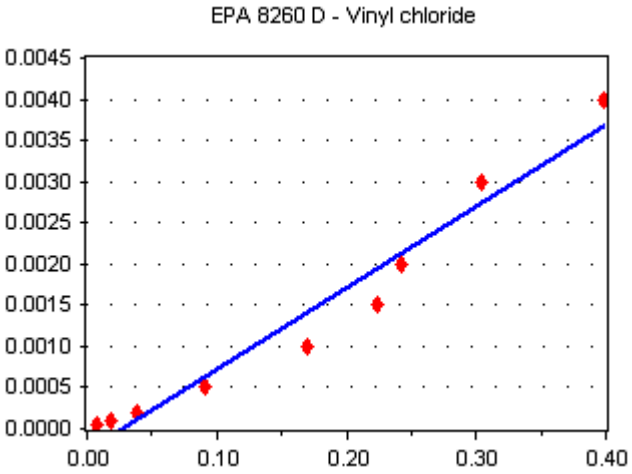


Quadratic Regression

Not Specified

Not Specified

Vinyl chloride

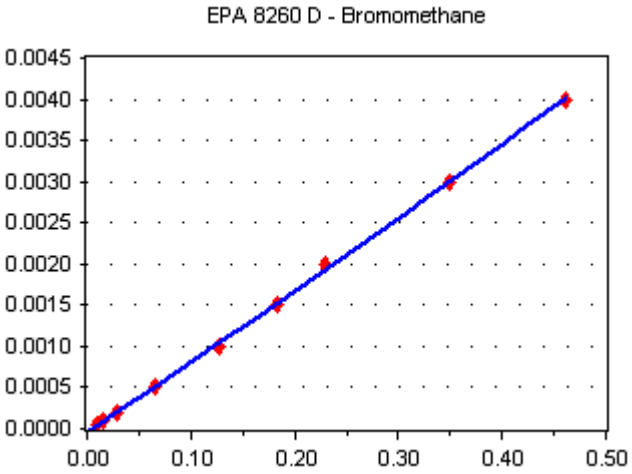


Linear Regression

r2: 0.9565222

[Conc] = 9.915645E-03 * [Response] + -2.761864E-04

Bromomethane



Quadratic Regression

Not Specified

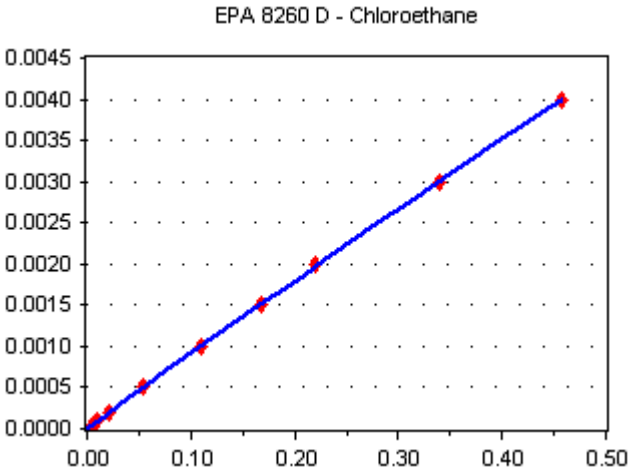
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Chloroethane

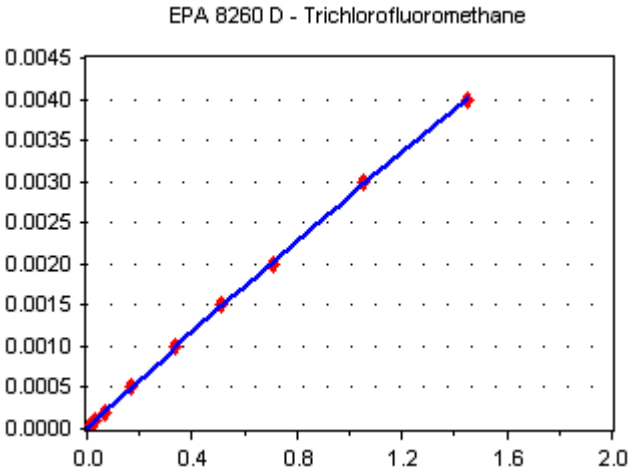


Quadratic Regression

Not Specified

Not Specified

Trichlorofluoromethane

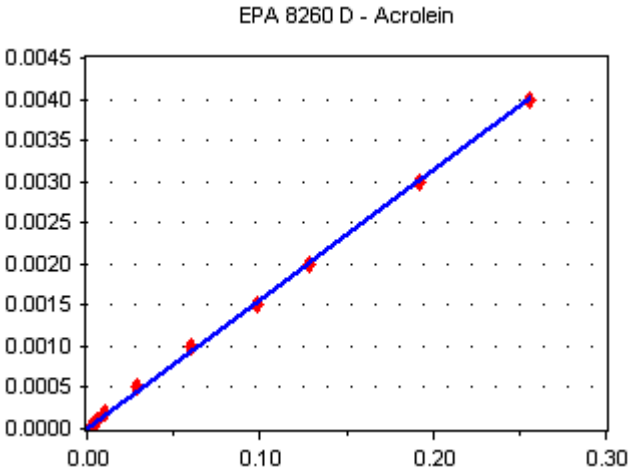


Quadratic Regression

Not Specified

Not Specified

Acrolein



Not Specified

Not Specified

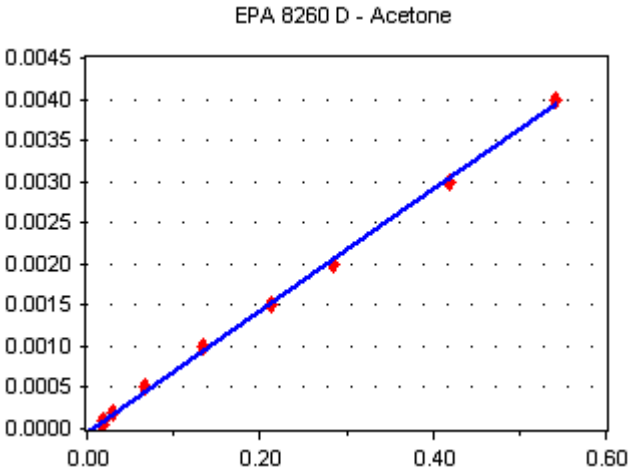
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Acetone

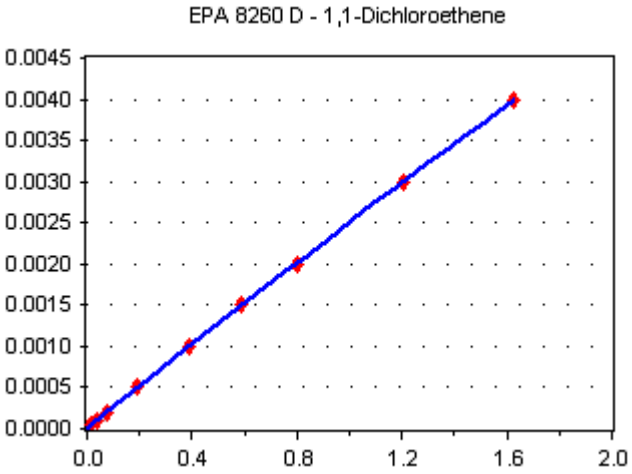


Linear Regression

r2: 0.9989708

[Conc] = 7.34555E-03 * [Response] + -3.82963E-05

1,1-Dichloroethene

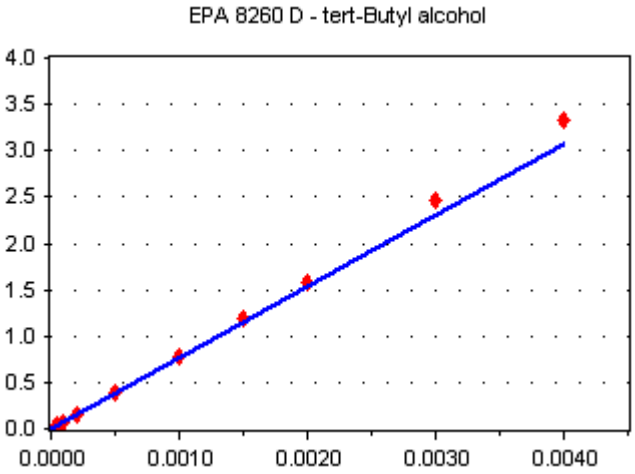


Quadratic Regression

Not Specified

Not Specified

tert-Butyl alcohol



Average RF

RF RSD: 5.770384

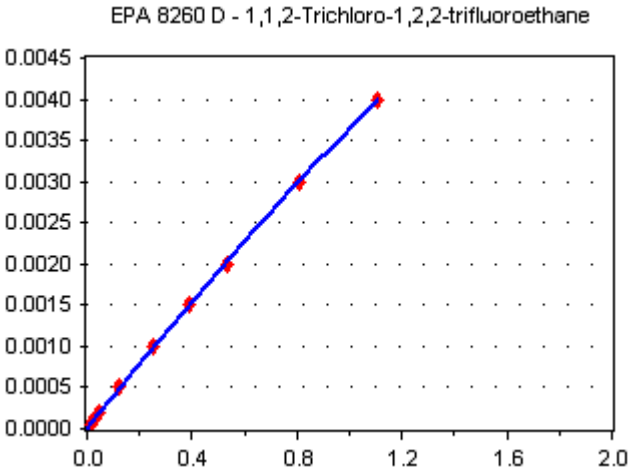
[Conc] = 769.6178 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

1,1,2-Trichloro-1,2,2-trifluoroethane

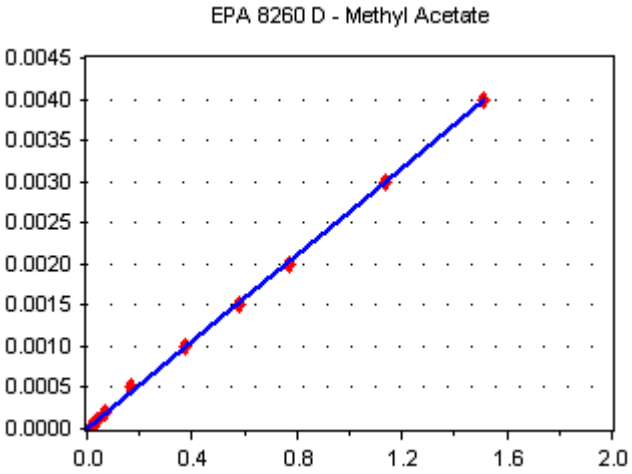


Quadratic Regression

Not Specified

Not Specified

Methyl Acetate

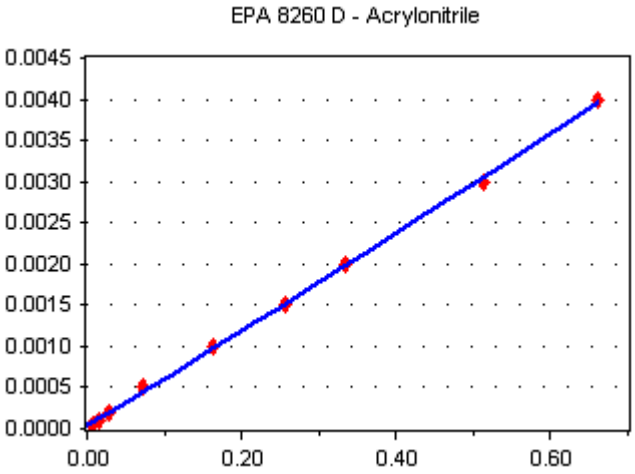


Linear Regression

r2: 0.9996573

[Conc] = 2.623376E-03 * [Response] + 9.174476E-06

Acrylonitrile



Quadratic Regression

Not Specified

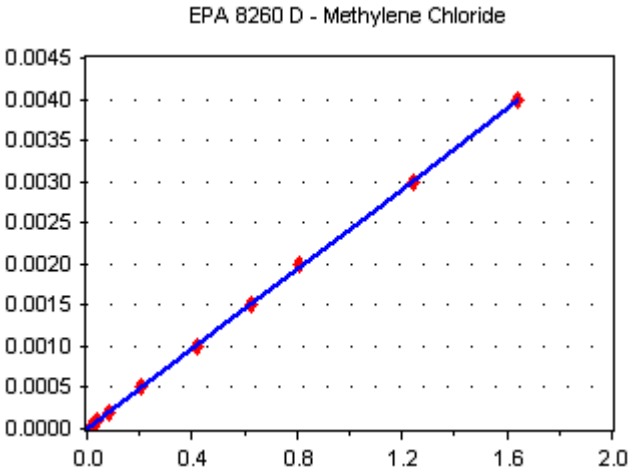
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Methylene Chloride

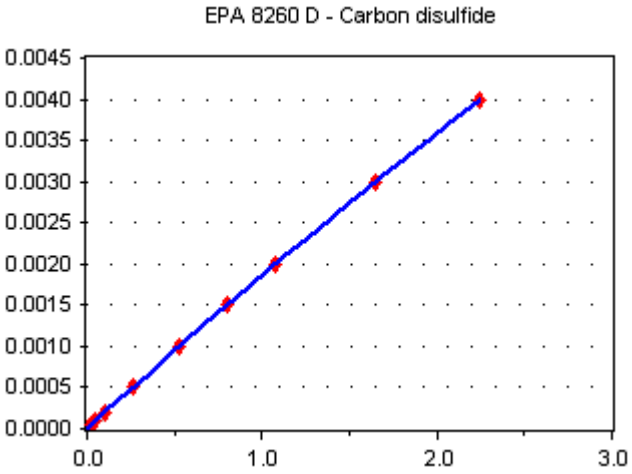


Linear Regression

r2: 0.9998102

[Conc] = 2.42755E-03 * [Response] + -2.330084E-07

Carbon disulfide

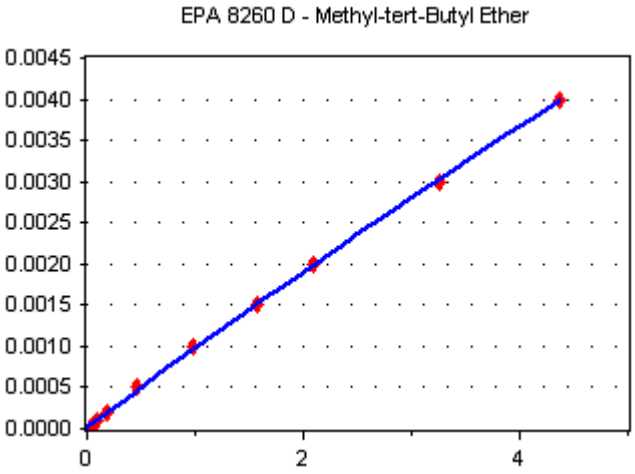


Quadratic Regression

Not Specified

Not Specified

Methyl-tert-Butyl Ether



Quadratic Regression

Not Specified

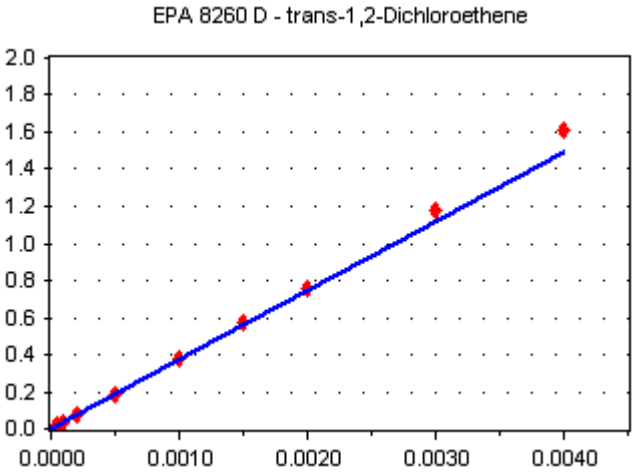
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

trans-1,2-Dichloroethene

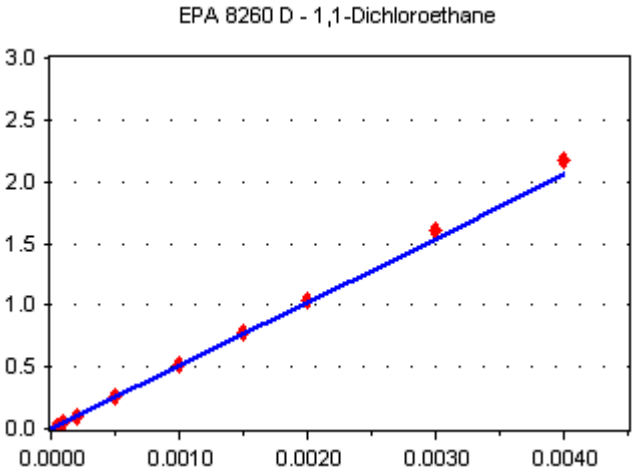


Average RF

RF RSD: 4.927777

[Conc] = 373.4703 * [Response]

1,1-Dichloroethane

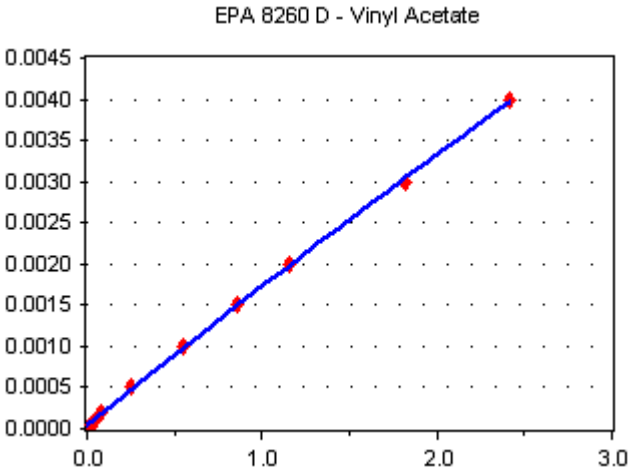


Average RF

RF RSD: 3.748312

[Conc] = 513.1055 * [Response]

Vinyl Acetate



Quadratic Regression

Not Specified

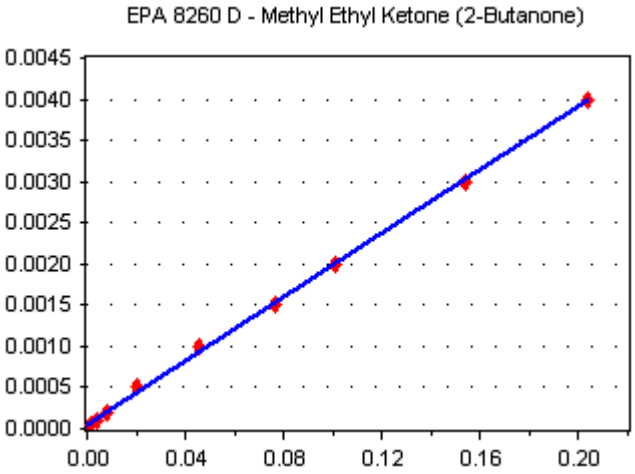
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Methyl Ethyl Ketone (2-Butanone)

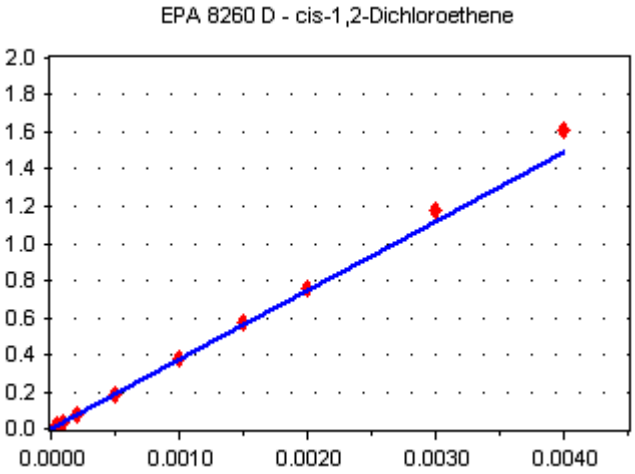


Linear Regression

r2: 0.9992855

[Conc] = 1.933733E-02 * [Response] + 5.276314E-05

cis-1,2-Dichloroethene

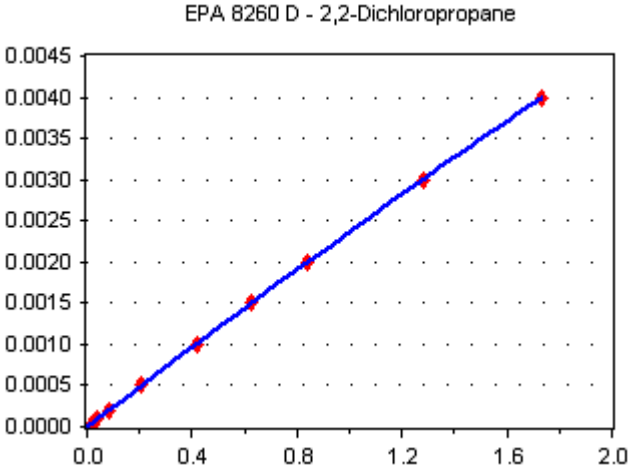


Average RF

RF RSD: 4.927777

[Conc] = 373.4703 * [Response]

2,2-Dichloropropane



Quadratic Regression

Not Specified

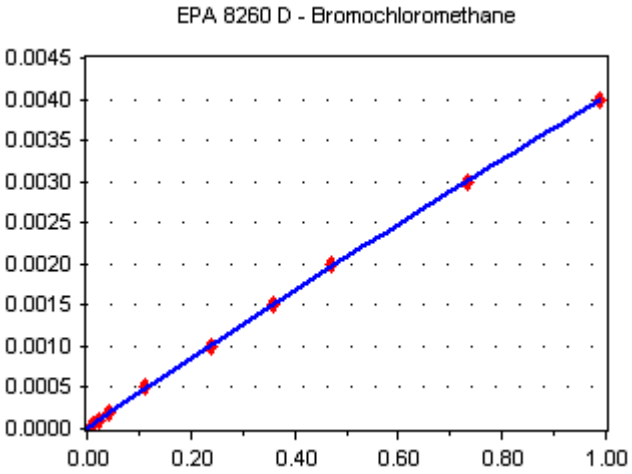
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Bromochloromethane

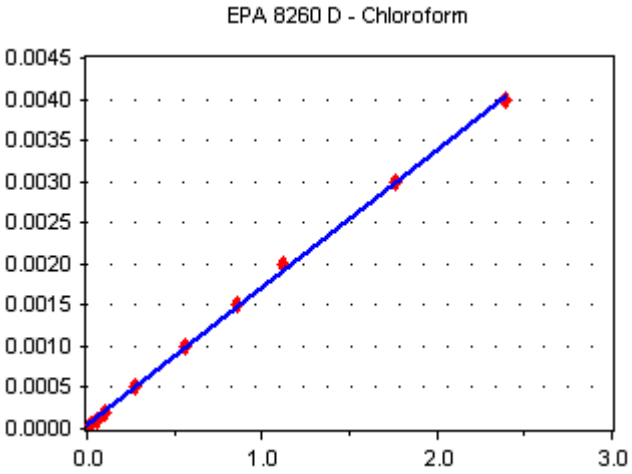


Quadratic Regression

Not Specified

Not Specified

Chloroform

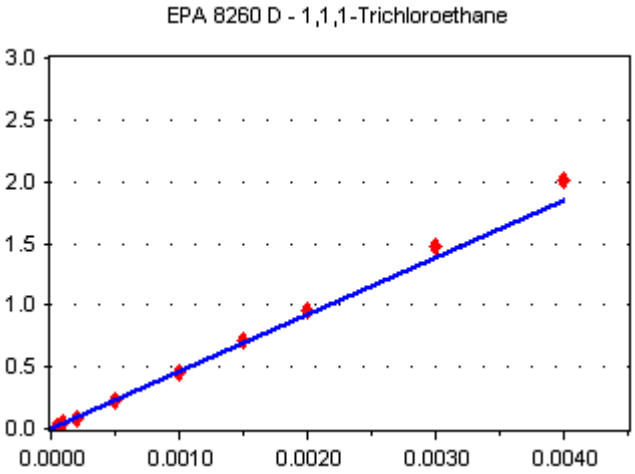


Linear Regression

r2: 0.9992421

[Conc] = 1.677315E-03 * [Response] + 3.721045E-05

1,1,1-Trichloroethane



Average RF

RF RSD: 5.548335

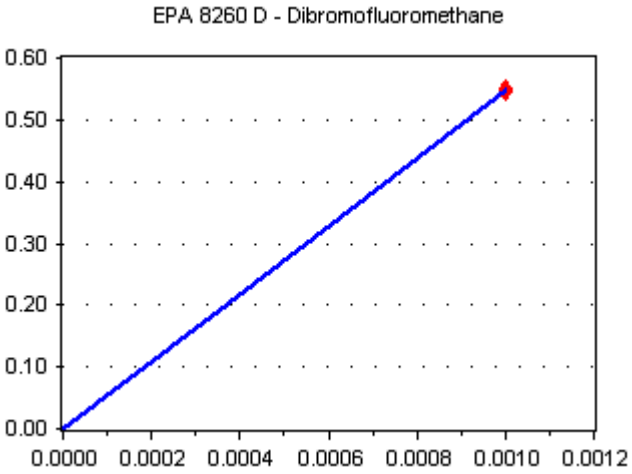
[Conc] = 462.7625 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Dibromofluoromethane

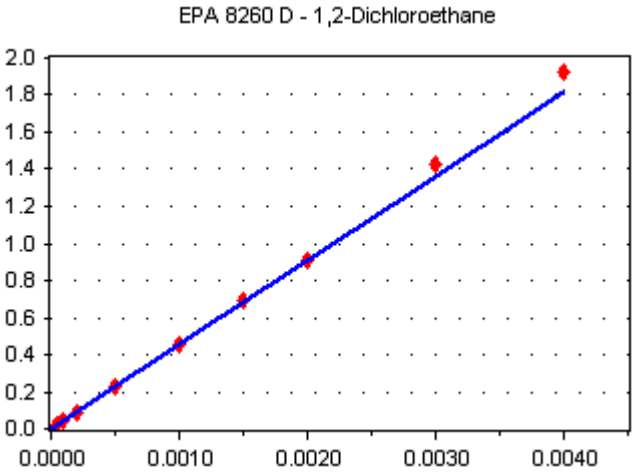


Average RF

RF RSD: 0.5101822

[Conc] = 546.6026 * [Response]

1,2-Dichloroethane

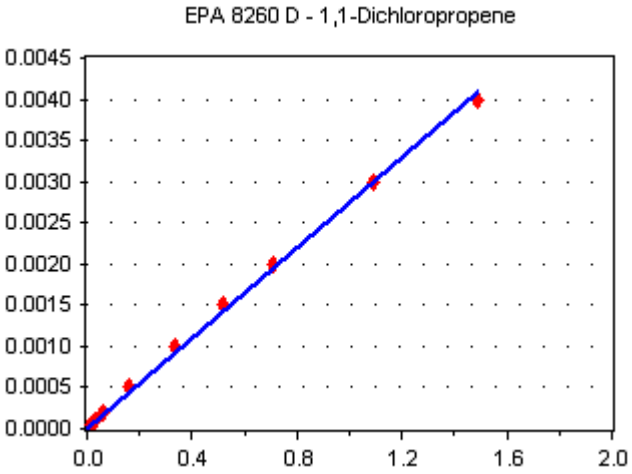


Average RF

RF RSD: 3.608719

[Conc] = 453.9182 * [Response]

1,1-Dichloropropene



Not Specified

Not Specified

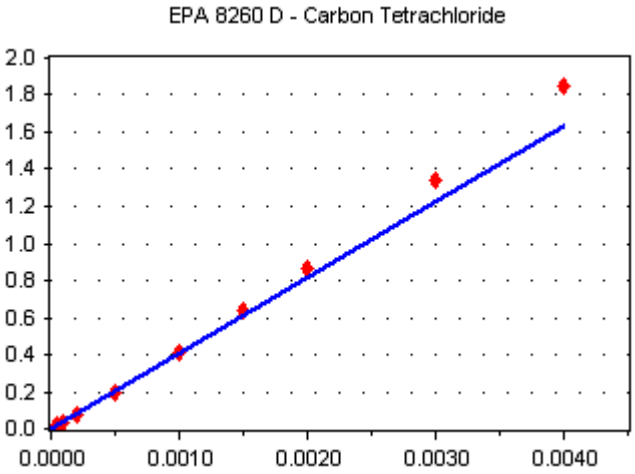
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Carbon Tetrachloride

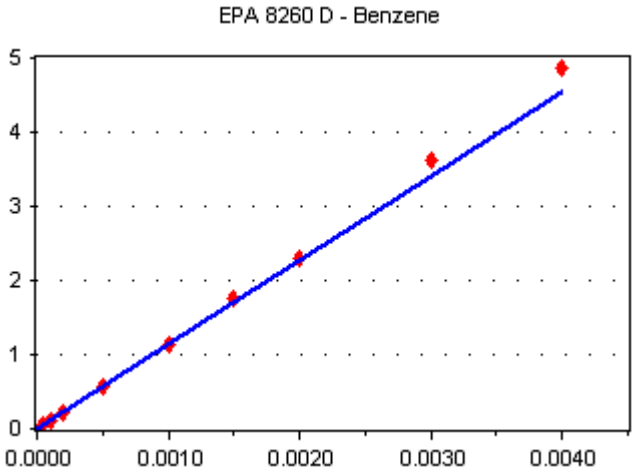


Average RF

RF RSD: 8.928741

[Conc] = 409.2156 * [Response]

Benzene

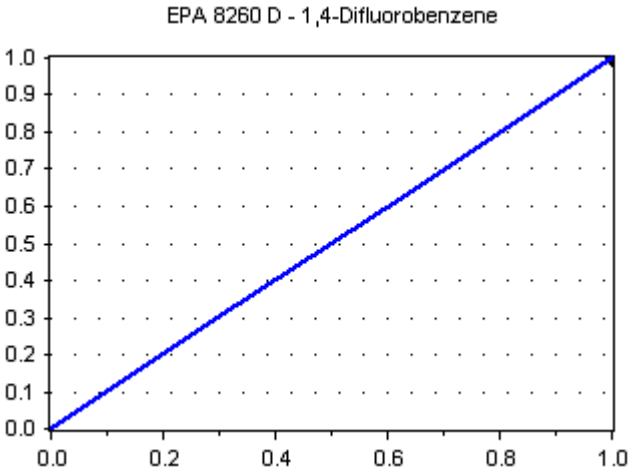


Average RF

RF RSD: 5.180875

[Conc] = 1132.811 * [Response]

1,4-Difluorobenzene



Average RF

RF RSD: 0

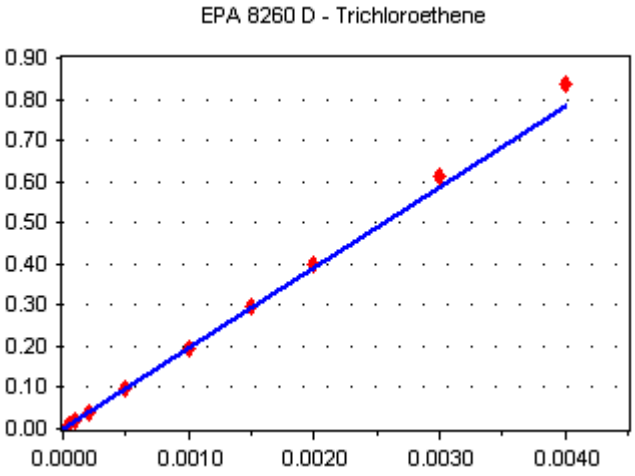
[Conc] = 1 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Trichloroethene

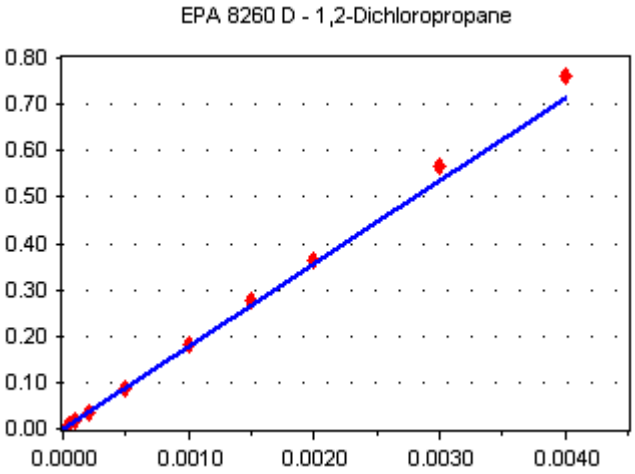


Average RF

RF RSD: 4.313034

[Conc] = 195.3713 * [Response]

1,2-Dichloropropane

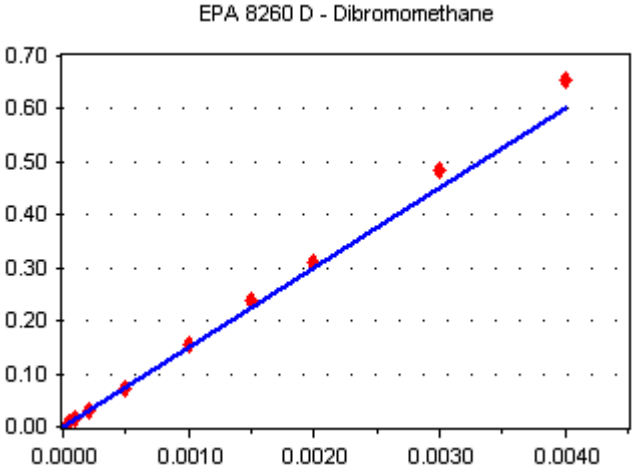


Average RF

RF RSD: 5.548113

[Conc] = 178.5498 * [Response]

Dibromomethane



Average RF

RF RSD: 7.564441

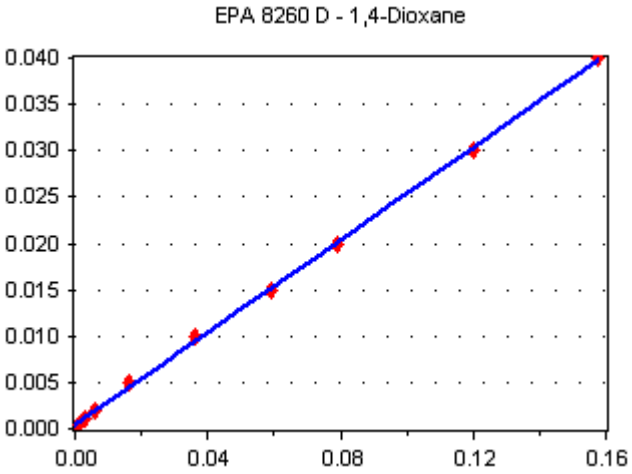
[Conc] = 150.5117 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

1,4-Dioxane

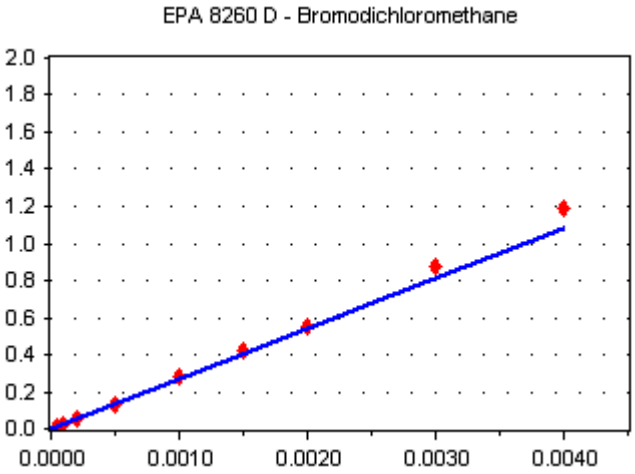


Quadratic Regression

Not Specified

Not Specified

Bromodichloromethane

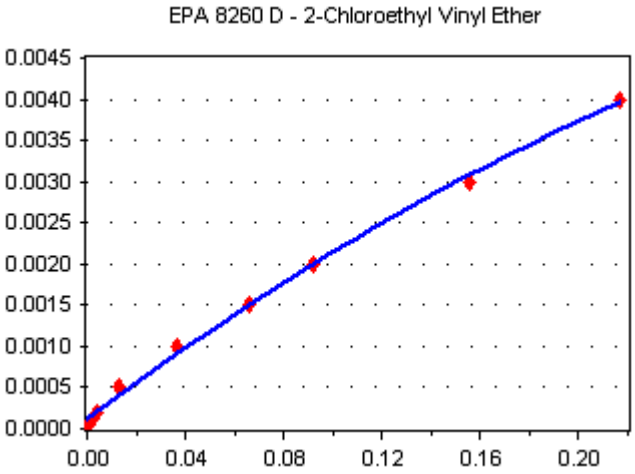


Average RF

RF RSD: 7.11149

[Conc] = 270.4832 * [Response]

2-Chloroethyl Vinyl Ether



Quadratic Regression

Not Specified

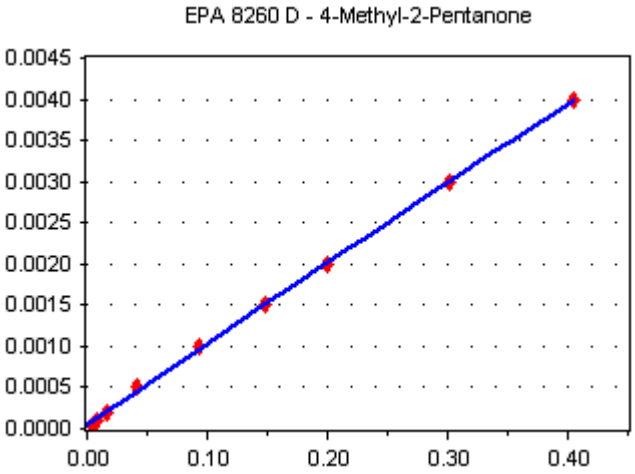
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

4-Methyl-2-Pentanone

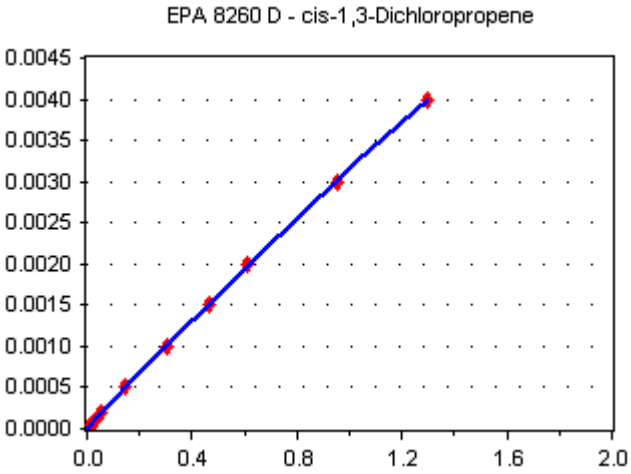


Quadratic Regression

Not Specified

Not Specified

cis-1,3-Dichloropropene

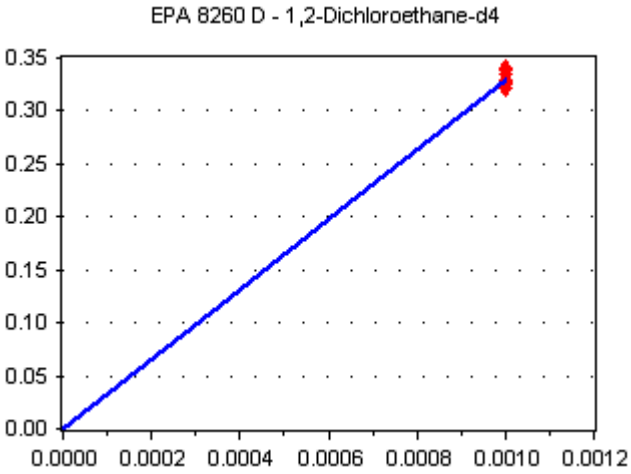


Quadratic Regression

Not Specified

Not Specified

1,2-Dichloroethane-d4



Average RF

RF RSD: 1.96806

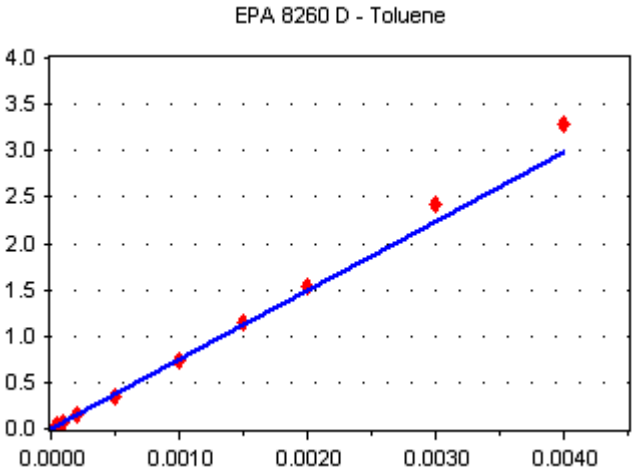
[Conc] = 329.7 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Toluene

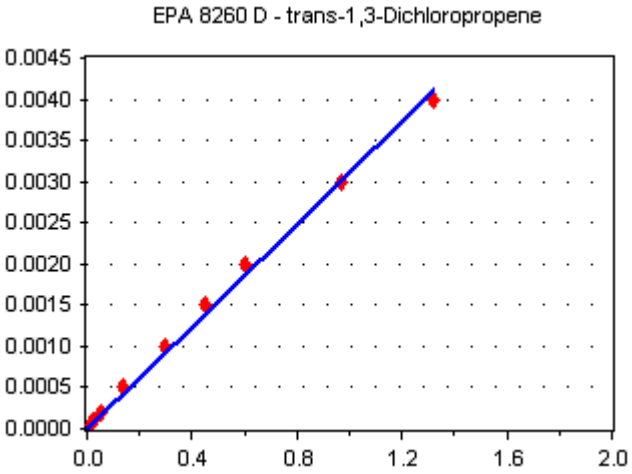


Average RF

RF RSD: 6.782176

[Conc] = 744.2388 * [Response]

trans-1,3-Dichloropropene

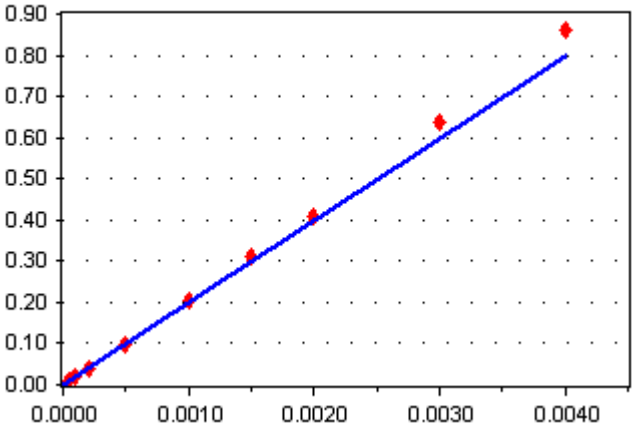


Not Specified

Not Specified

Not Specified

1,1,2-Trichloroethane



Average RF

RF RSD: 5.844093

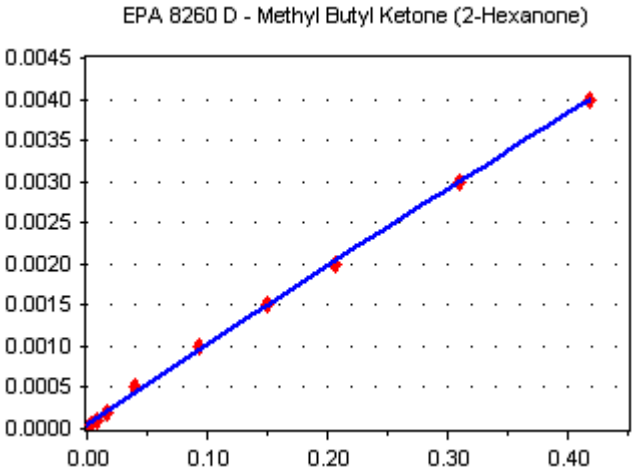
[Conc] = 199.7219 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Methyl Butyl Ketone (2-Hexanone)

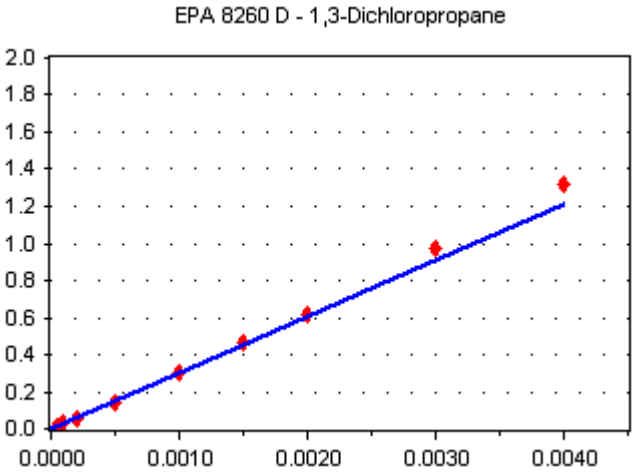


Quadratic Regression

Not Specified

Not Specified

1,3-Dichloropropane

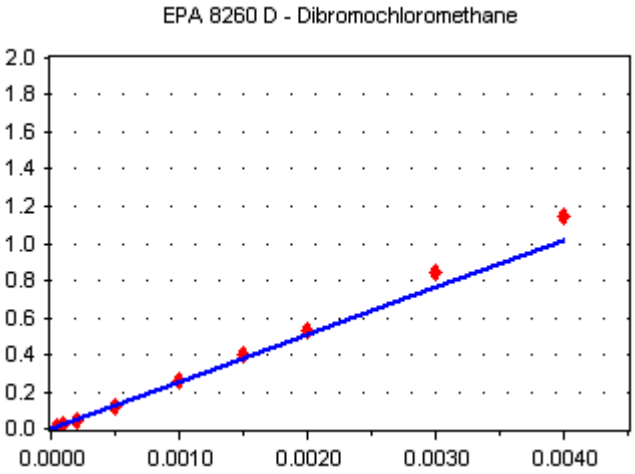


Average RF

RF RSD: 5.819624

[Conc] = 303.377 * [Response]

Dibromochloromethane



Average RF

RF RSD: 8.666662

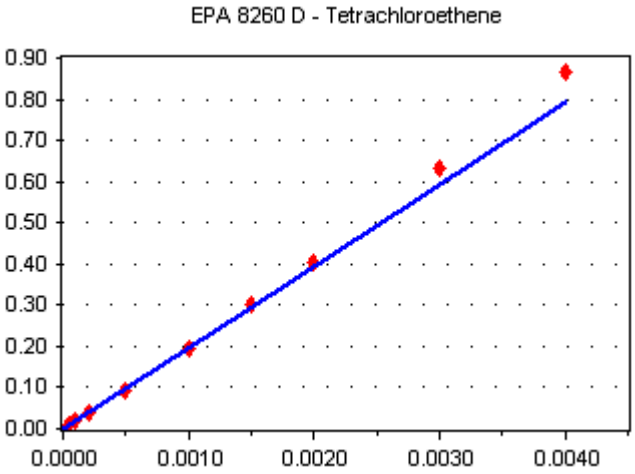
[Conc] = 254.6736 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Tetrachloroethene

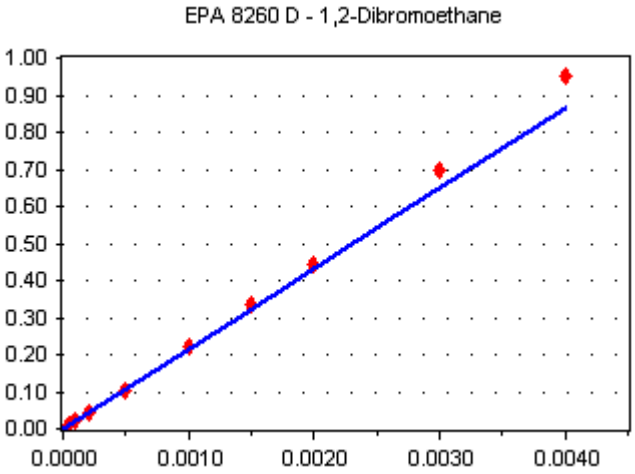


Average RF

RF RSD: 5.674574

[Conc] = 197.7187 * [Response]

1,2-Dibromoethane

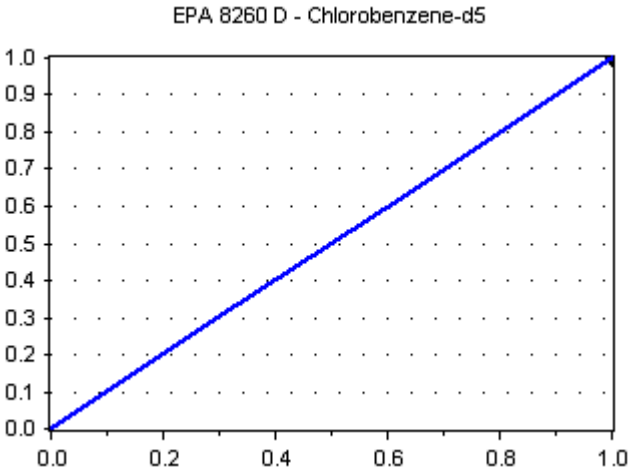


Average RF

RF RSD: 6.818579

[Conc] = 215.9012 * [Response]

Chlorobenzene-d5



Average RF

RF RSD: 0

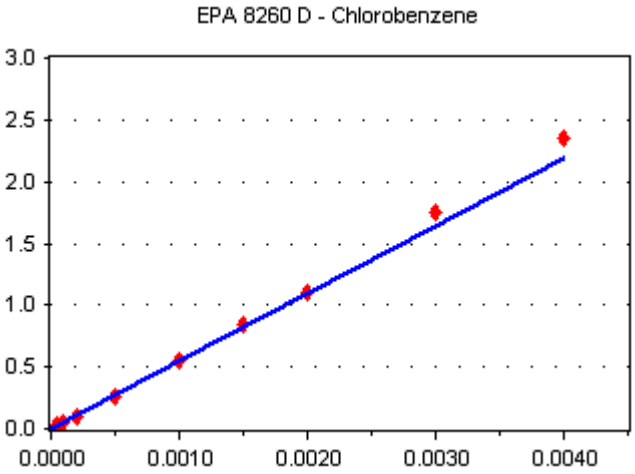
[Conc] = 1 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Chlorobenzene

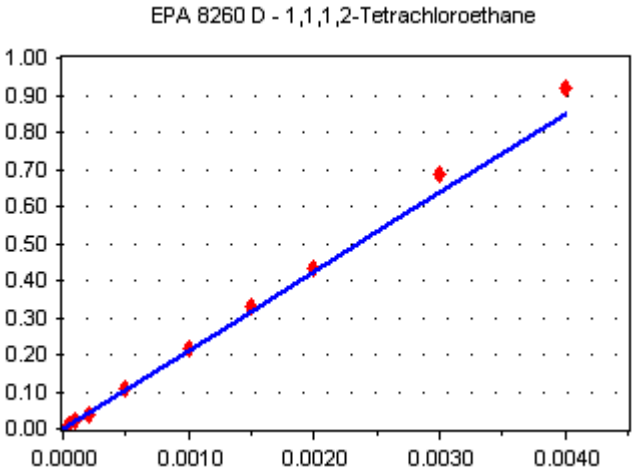


Average RF

RF RSD: 5.032829

[Conc] = 547.2893 * [Response]

1,1,1,2-Tetrachloroethane

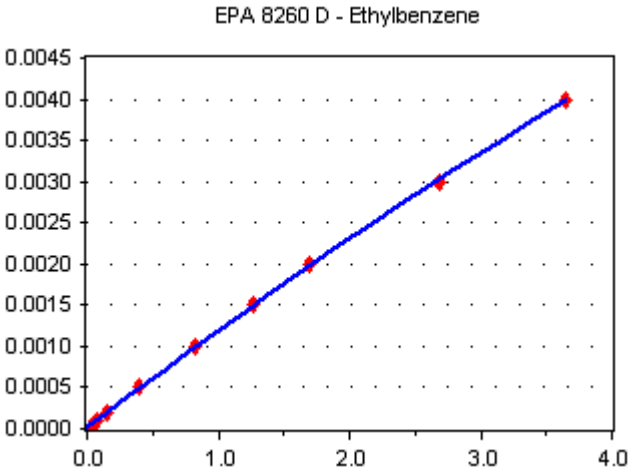


Average RF

RF RSD: 6.253323

[Conc] = 212.6912 * [Response]

Ethylbenzene



Quadratic Regression

Not Specified

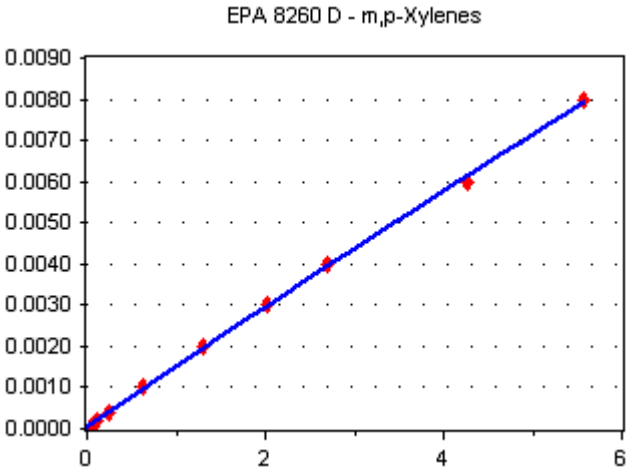
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

m,p-Xylenes

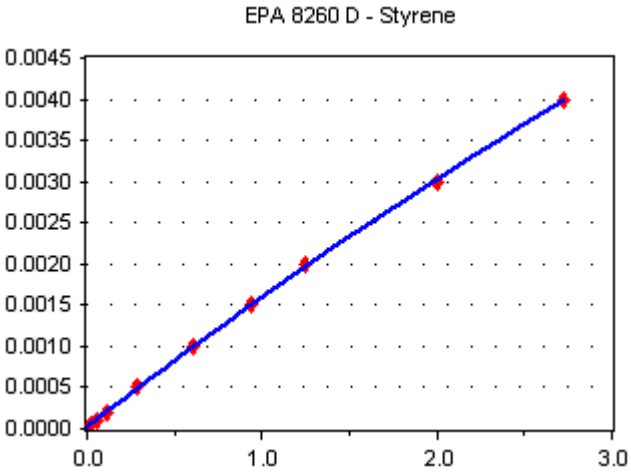


Quadratic Regression

Not Specified

Not Specified

Styrene

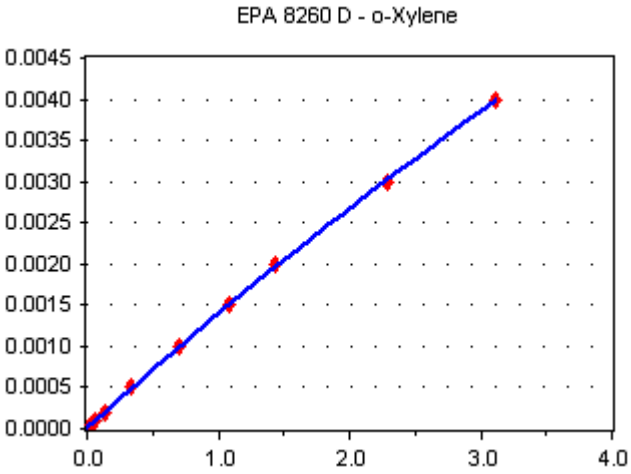


Quadratic Regression

Not Specified

Not Specified

o-Xylene



Quadratic Regression

Not Specified

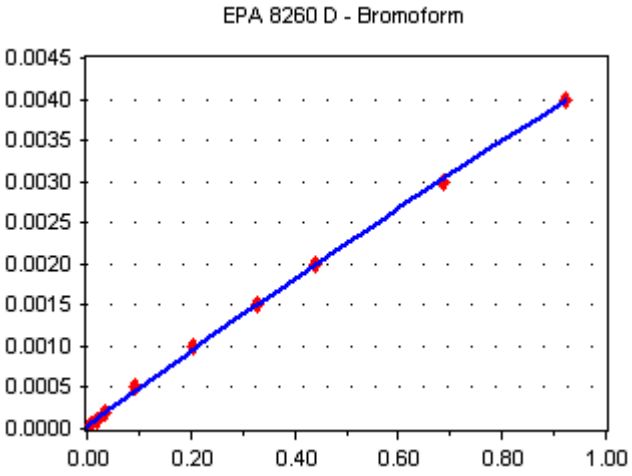
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

Bromoform

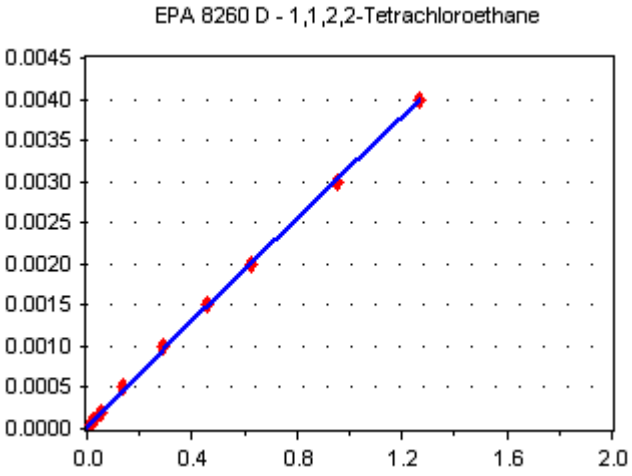


Quadratic Regression

Not Specified

Not Specified

1,1,2,2-Tetrachloroethane

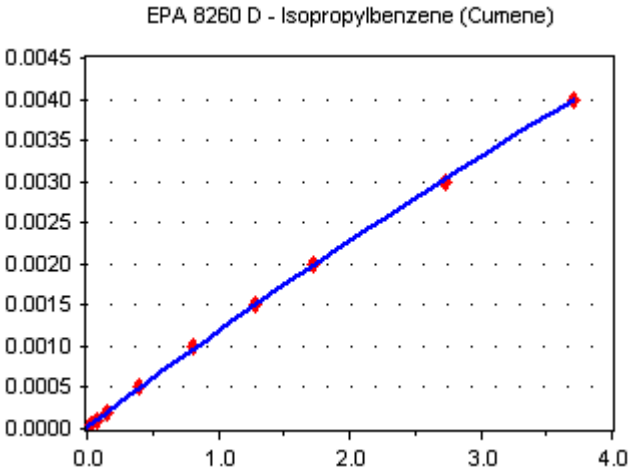


Quadratic Regression

Not Specified

Not Specified

Isopropylbenzene (Cumene)



Quadratic Regression

Not Specified

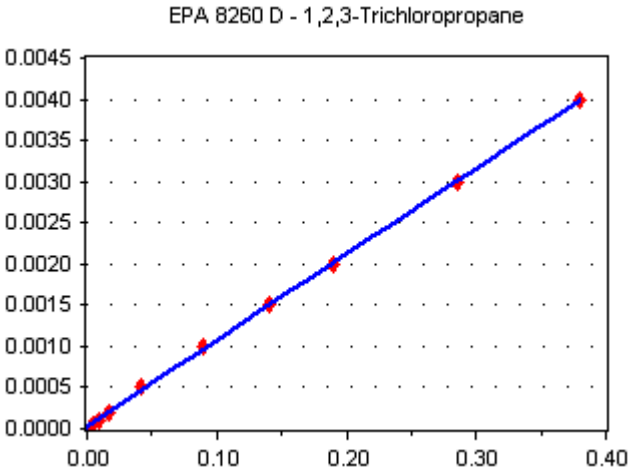
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

1,2,3-Trichloropropane

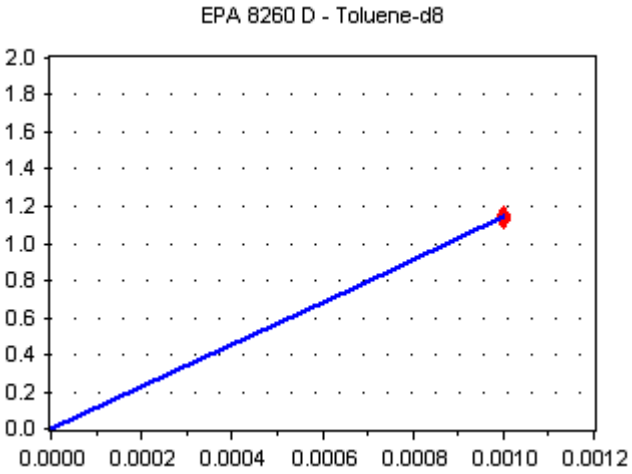


Quadratic Regression

Not Specified

Not Specified

Toluene-d8

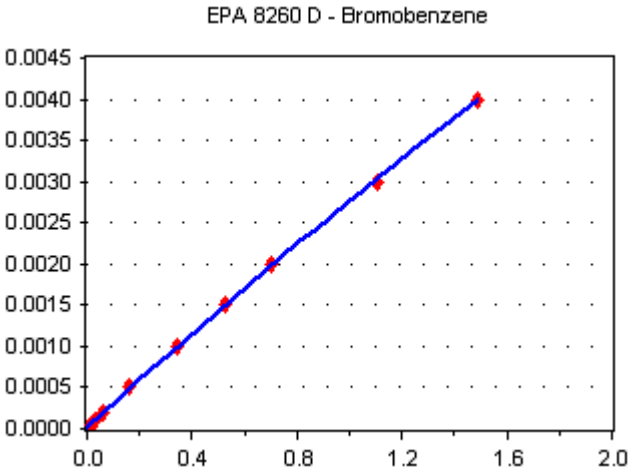


Average RF

RF RSD: 0.8983015

[Conc] = 1140.895 * [Response]

Bromobenzene



Quadratic Regression

Not Specified

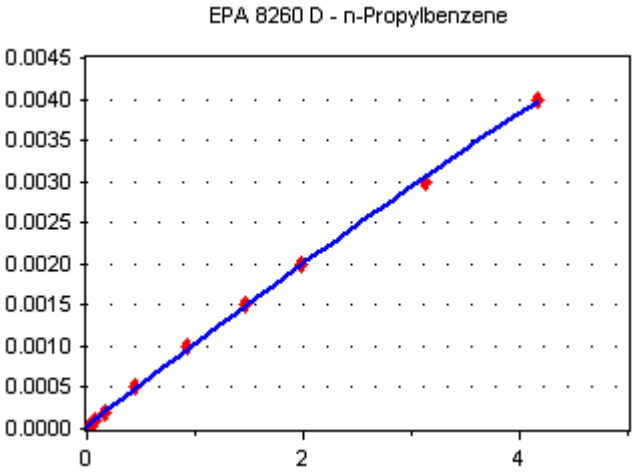
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

n-Propylbenzene

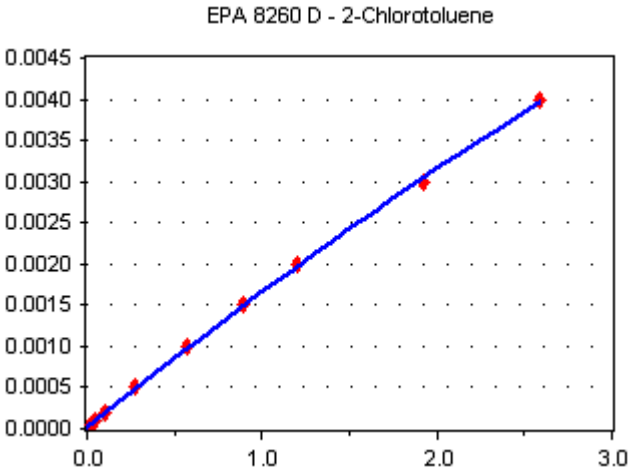


Quadratic Regression

Not Specified

Not Specified

2-Chlorotoluene

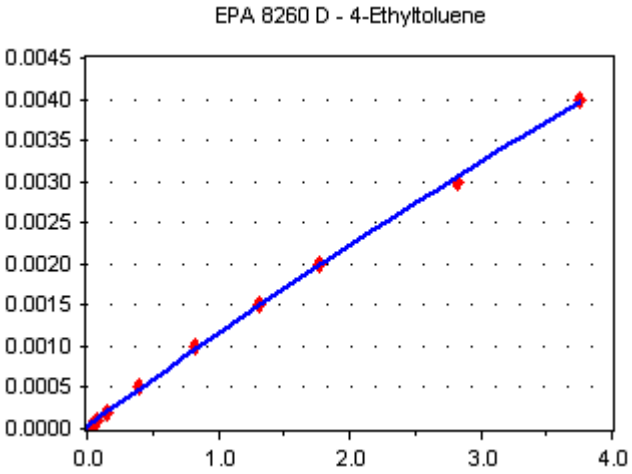


Quadratic Regression

Not Specified

Not Specified

4-Ethyltoluene



Quadratic Regression

Not Specified

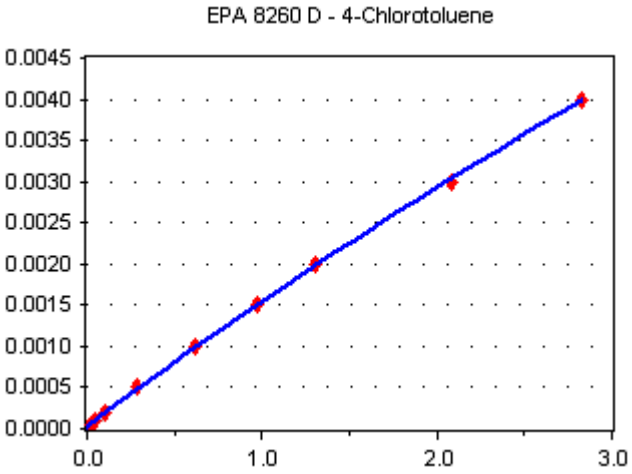
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

4-Chlorotoluene

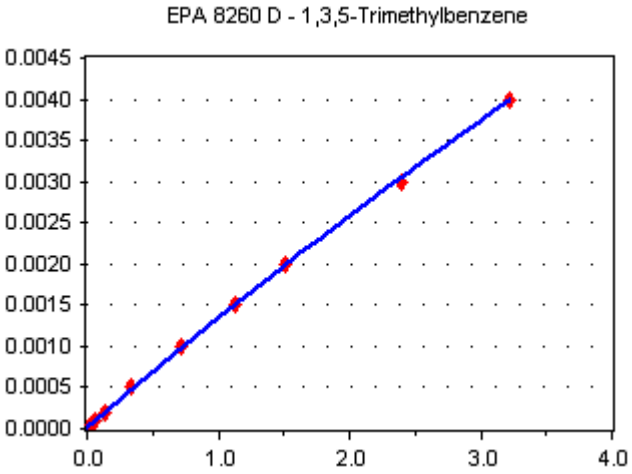


Quadratic Regression

Not Specified

Not Specified

1,3,5-Trimethylbenzene

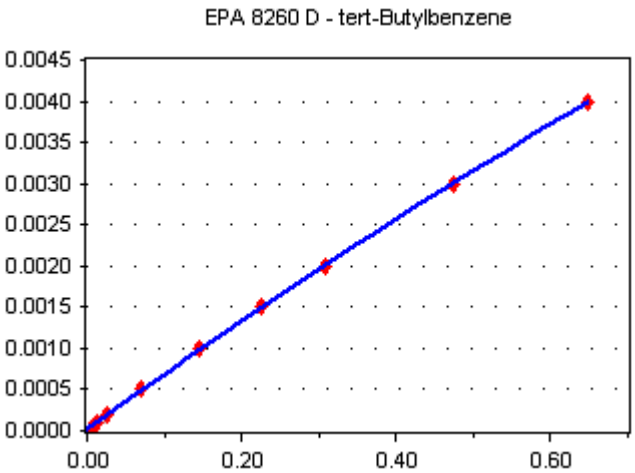


Quadratic Regression

Not Specified

Not Specified

tert-Butylbenzene



Quadratic Regression

Not Specified

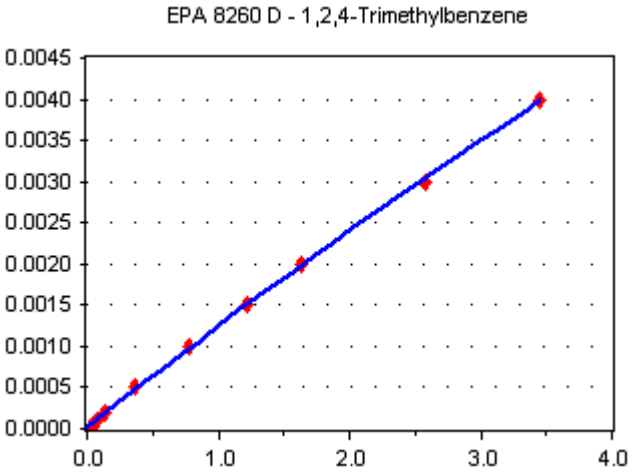
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

1,2,4-Trimethylbenzene

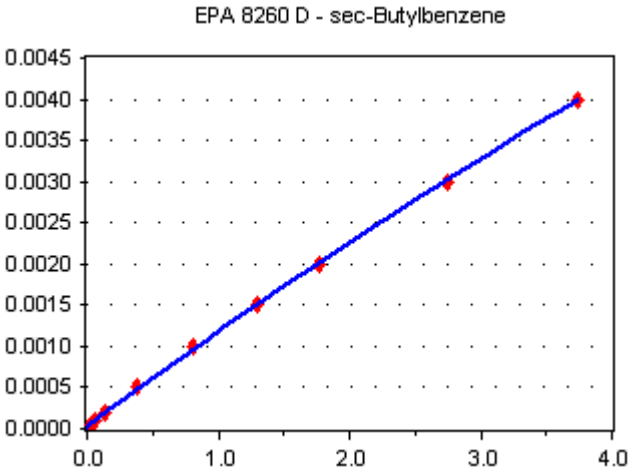


Quadratic Regression

Not Specified

Not Specified

sec-Butylbenzene

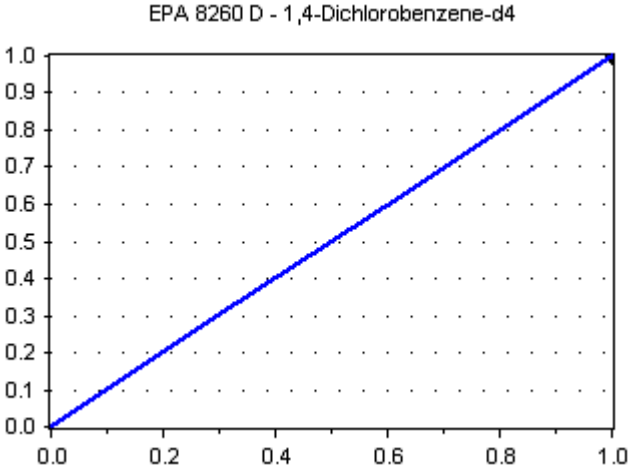


Quadratic Regression

Not Specified

Not Specified

1,4-Dichlorobenzene-d4



Average RF

RF RSD: 0

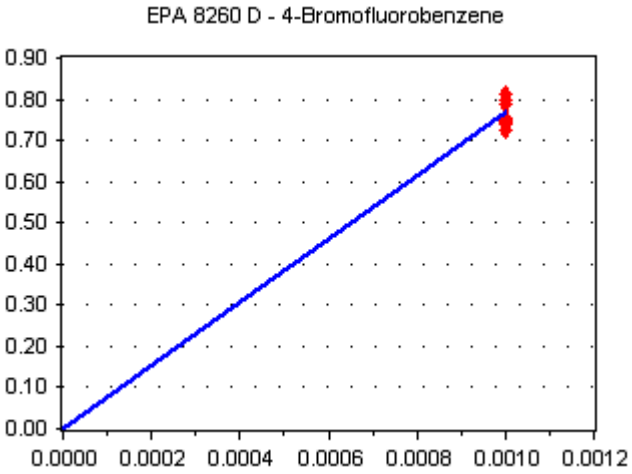
[Conc] = 1 * [Response]

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

4-Bromofluorobenzene

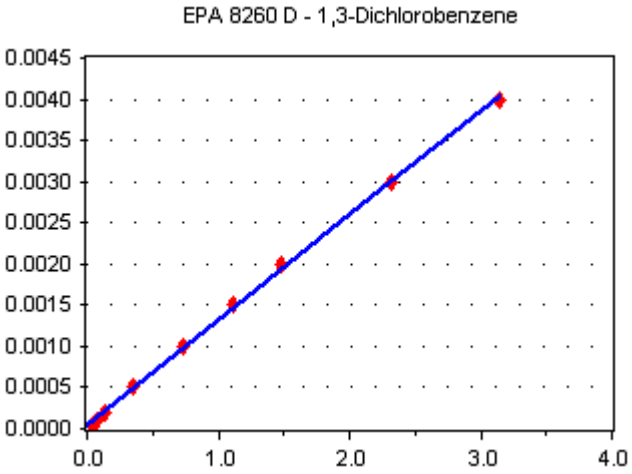


Average RF

RF RSD: 4.291934

[Conc] = 769.3746 * [Response]

1,3-Dichlorobenzene

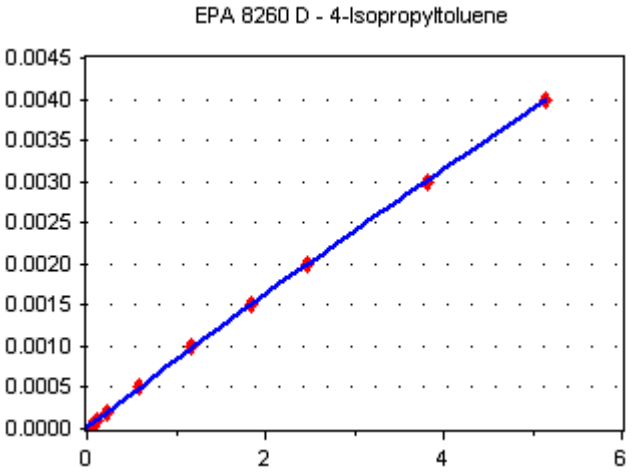


Linear Regression

r2: 0.9992327

[Conc] = 1.275601E-03 * [Response] + 4.025591E-05

4-Isopropyltoluene



Quadratic Regression

Not Specified

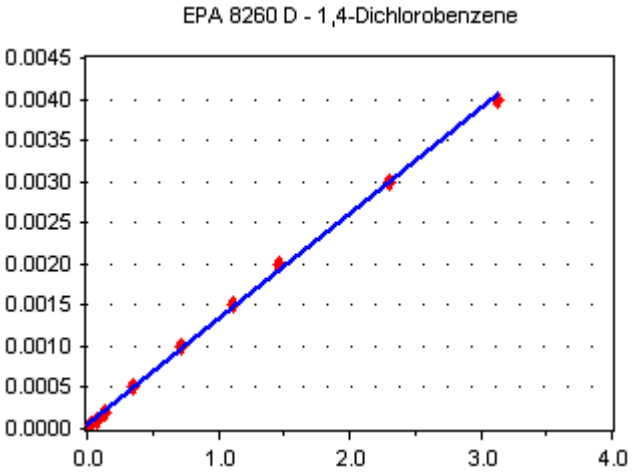
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

1,4-Dichlorobenzene

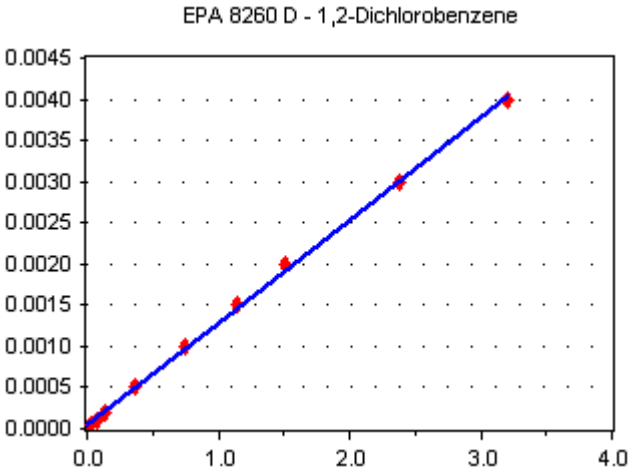


Linear Regression

r2: 0.9989786

[Conc] = 1.280015E-03 * [Response] + 4.508873E-05

1,2-Dichlorobenzene

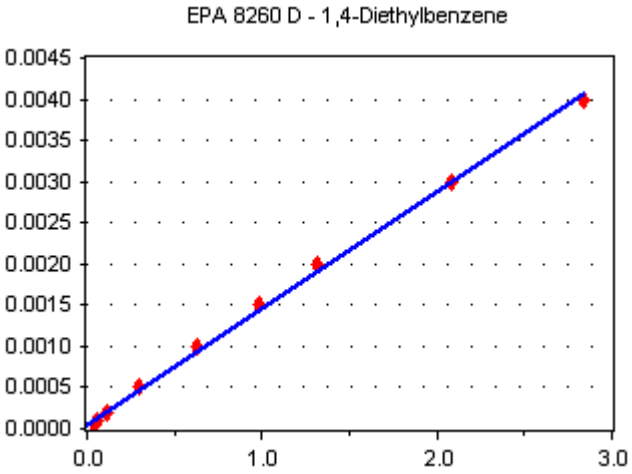


Linear Regression

r2: 0.9993433

[Conc] = 1.250533E-03 * [Response] + 3.927215E-05

1,4-Diethylbenzene



Linear Regression

r2: 0.9984941

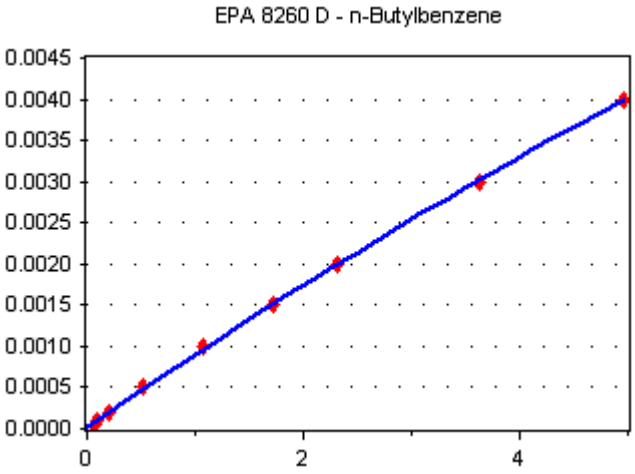
[Conc] = 1.41235E-03 * [Response] + 5.607646E-05

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

n-Butylbenzene

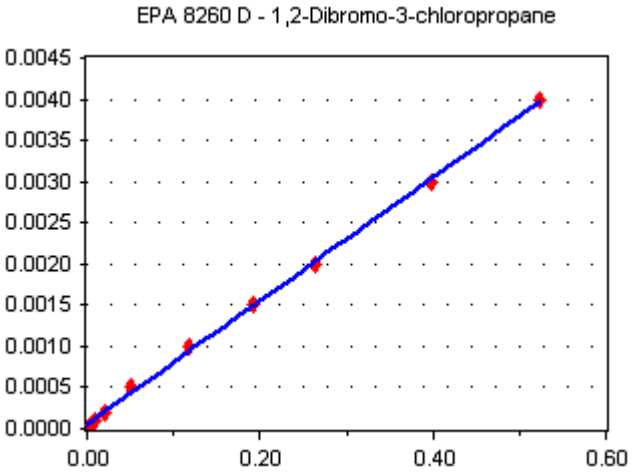


Quadratic Regression

Not Specified

Not Specified

1,2-Dibromo-3-chloropropane

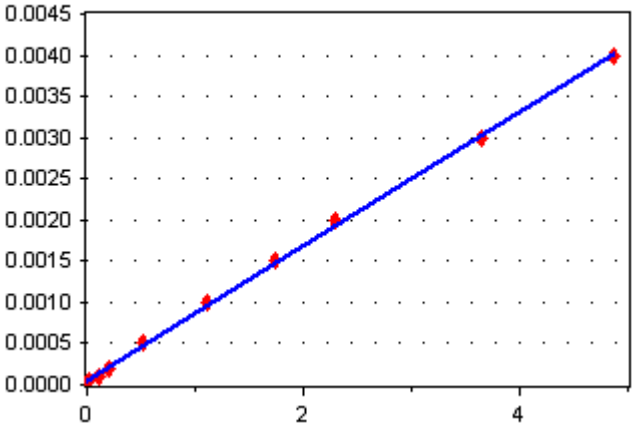


Quadratic Regression

Not Specified

Not Specified

1,2,4,5-Tetramethylbenzene



Linear Regression

r2: 0.9992222

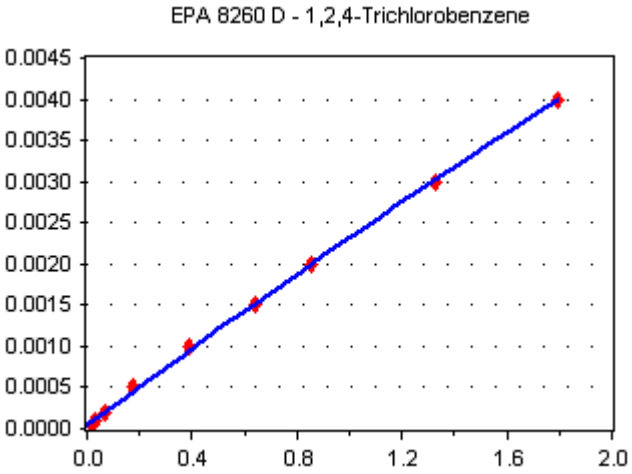
[Conc] = 8.139576E-04 * [Response] + 5.920335E-05

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

1,2,4-Trichlorobenzene

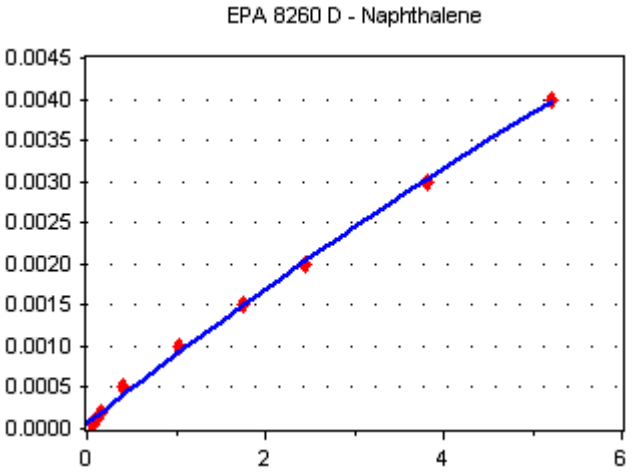


Quadratic Regression

Not Specified

Not Specified

Naphthalene

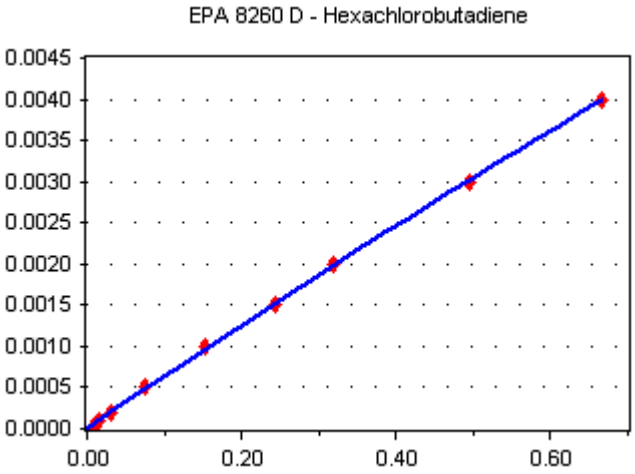


Quadratic Regression

Not Specified

Not Specified

Hexachlorobutadiene



Quadratic Regression

Not Specified

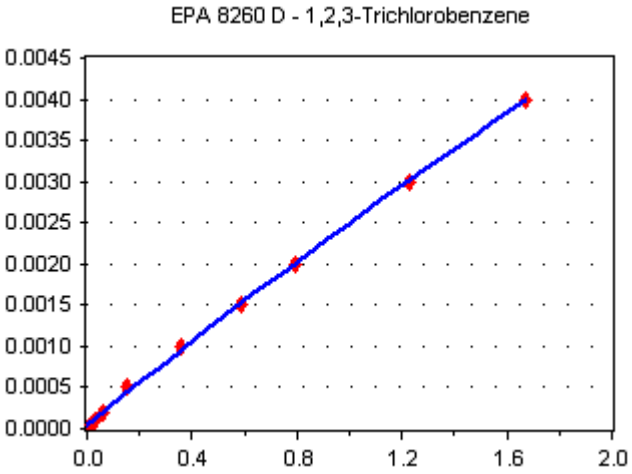
Not Specified

Long Island Analytical Laboratori

Instrument:	ChemStation05	Calibration Date:	10/02/2023 14:46 By JN
Calibration ID:	L404001	Last Edit Date:	01/24/2024 14:46 By JN

EPA 8260 D

1,2,3-Trichlorobenzene



Quadratic Regression

Not Specified

Not Specified

LONG
ISLAND
ANALYTICAL
LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

VOLATILES QC DATA

110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341041-BLK1	File ID:	B341041-BLK1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 19:07
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	5.00	U
75-45-6	Chlorodifluoromethane	5.00	U
74-87-3	Chloromethane	5.00	U
75-01-4	Vinyl chloride	5.00	U
74-83-9	Bromomethane	5.00	U
75-00-3	Chloroethane	5.00	U
75-69-4	Trichlorofluoromethane	5.00	U
107-02-8	Acrolein	5.00	U
67-64-1	Acetone	10.0	U
75-35-4	1,1-Dichloroethene	5.00	U
75-65-0	tert-Butyl alcohol	5.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	U
79-20-9	Methyl Acetate	5.00	U
107-13-1	Acrylonitrile	5.00	U
75-09-2	Methylene Chloride	5.00	U
75-15-0	Carbon disulfide	5.00	U
1634-04-4	Methyl-tert-Butyl Ether	5.00	U
156-60-5	trans-1,2-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
108-05-4	Vinyl Acetate	5.00	U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	10.0	U
156-59-2	cis-1,2-Dichloroethene	5.00	U
594-20-7	2,2-Dichloropropane	5.00	U
74-97-5	Bromochloromethane	5.00	U

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341041-BLK1	File ID:	B341041-BLK1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 19:07
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
67-66-3	Chloroform	5.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
563-58-6	1,1-Dichloropropene	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
71-43-2	Benzene	5.00	U
79-01-6	Trichloroethene	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
74-95-3	Dibromomethane	5.00	U
123-91-1	1,4-Dioxane	100	U
75-27-4	Bromodichloromethane	5.00	U
110-75-8	2-Chloroethyl Vinyl Ether	5.00	U
108-10-1	4-Methyl-2-Pentanone	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
108-88-3	Toluene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
591-78-6	Methyl Butyl Ketone (2-Hexanone)	10.0	U
142-28-9	1,3-Dichloropropane	5.00	U
124-48-1	Dibromochloromethane	5.00	U
127-18-4	Tetrachloroethene	5.00	U
106-93-4	1,2-Dibromoethane	5.00	U
108-90-7	Chlorobenzene	5.00	U
630-20-6	1,1,1,2-Tetrachloroethane	5.00	U

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341041-BLK1	File ID:	B341041-BLK1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 19:07
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
100-41-4	Ethylbenzene	5.00	U
108-38-3/106-42-3	m,p-Xylenes	10.0	U
100-42-5	Styrene	5.00	U
95-47-6	o-Xylene	5.00	U
75-25-2	Bromoform	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
98-82-8	Isopropylbenzene (Cumene)	5.00	U
96-18-4	1,2,3-Trichloropropane	5.00	U
108-86-1	Bromobenzene	5.00	U
103-65-1	n-Propylbenzene	5.00	U
95-49-8	2-Chlorotoluene	5.00	U
622-96-8	4-Ethyltoluene	5.00	U
106-43-4	4-Chlorotoluene	5.00	U
108-67-8	1,3,5-Trimethylbenzene	5.00	U
98-06-6	tert-Butylbenzene	5.00	U
95-63-6	1,2,4-Trimethylbenzene	5.00	U
135-98-8	sec-Butylbenzene	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U
99-87-6	4-Isopropyltoluene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
105-05-5	1,4-Diethylbenzene	5.00	U
104-51-8	n-Butylbenzene	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341041-BLK1	File ID:	B341041-BLK1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 19:07
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
95-93-2	1,2,4,5-Tetramethylbenzene	5.00	U
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	6.20	4.C
87-68-3	Hexachlorobutadiene	5.00	U
87-61-6	1,2,3-Trichlorobenzene	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341041-BS1	File ID:	B341041-BS1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 12:10
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	46.1	
75-45-6	Chlorodifluoromethane	42.0	
74-87-3	Chloromethane	45.4	
75-01-4	Vinyl chloride	41.0	
74-83-9	Bromomethane	48.7	
75-00-3	Chloroethane	43.2	
75-69-4	Trichlorofluoromethane	41.4	
107-02-8	Acrolein	41.7	
67-64-1	Acetone	38.7	
75-35-4	1,1-Dichloroethene	39.0	
75-65-0	tert-Butyl alcohol	40.4	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	41.6	
79-20-9	Methyl Acetate	42.8	
107-13-1	Acrylonitrile	39.9	
75-09-2	Methylene Chloride	39.8	
75-15-0	Carbon disulfide	50.2	
1634-04-4	Methyl-tert-Butyl Ether	41.3	
156-60-5	trans-1,2-Dichloroethene	39.9	
75-34-3	1,1-Dichloroethane	40.1	
108-05-4	Vinyl Acetate	44.7	
78-93-3	Methyl Ethyl Ketone (2-Butanone)	47.6	
156-59-2	cis-1,2-Dichloroethene	40.7	
594-20-7	2,2-Dichloropropane	43.0	
74-97-5	Bromochloromethane	43.2	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341041-BS1	File ID:	B341041-BS1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 12:10
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
67-66-3	Chloroform	41.0	
71-55-6	1,1,1-Trichloroethane	39.7	
107-06-2	1,2-Dichloroethane	40.7	
563-58-6	1,1-Dichloropropene	39.1	
56-23-5	Carbon Tetrachloride	39.4	
71-43-2	Benzene	40.8	
79-01-6	Trichloroethene	44.5	
78-87-5	1,2-Dichloropropane	43.8	
74-95-3	Dibromomethane	46.2	
123-91-1	1,4-Dioxane	277	
75-27-4	Bromodichloromethane	43.8	
110-75-8	2-Chloroethyl Vinyl Ether	43.2	
108-10-1	4-Methyl-2-Pentanone	45.9	
10061-01-5	cis-1,3-Dichloropropene	44.3	
108-88-3	Toluene	45.4	
10061-02-6	trans-1,3-Dichloropropene	45.2	
79-00-5	1,1,2-Trichloroethane	42.7	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	45.5	
142-28-9	1,3-Dichloropropane	44.9	
124-48-1	Dibromochloromethane	45.9	
127-18-4	Tetrachloroethene	42.6	
106-93-4	1,2-Dibromoethane	47.0	
108-90-7	Chlorobenzene	44.8	
630-20-6	1,1,1,2-Tetrachloroethane	45.4	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341041-BS1	File ID:	B341041-BS1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 12:10
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
100-41-4	Ethylbenzene	46.5	
108-38-3/106-42-3	m,p-Xylenes	90.2	
100-42-5	Styrene	47.9	
95-47-6	o-Xylene	47.5	
75-25-2	Bromoform	47.9	
79-34-5	1,1,2,2-Tetrachloroethane	48.6	
98-82-8	Isopropylbenzene (Cumene)	47.0	
96-18-4	1,2,3-Trichloropropane	50.5	
108-86-1	Bromobenzene	48.8	
103-65-1	n-Propylbenzene	45.8	
95-49-8	2-Chlorotoluene	47.8	
622-96-8	4-Ethyltoluene	48.2	
106-43-4	4-Chlorotoluene	48.1	
108-67-8	1,3,5-Trimethylbenzene	47.2	
98-06-6	tert-Butylbenzene	46.4	
95-63-6	1,2,4-Trimethylbenzene	46.8	
135-98-8	sec-Butylbenzene	45.6	
541-73-1	1,3-Dichlorobenzene	47.4	
99-87-6	4-Isopropyltoluene	44.1	
106-46-7	1,4-Dichlorobenzene	47.6	
95-50-1	1,2-Dichlorobenzene	47.2	
105-05-5	1,4-Diethylbenzene	44.3	
104-51-8	n-Butylbenzene	43.9	
96-12-8	1,2-Dibromo-3-chloropropane	48.2	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
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AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341041-BS1	File ID:	B341041-BS1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 12:10
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
95-93-2	1,2,4,5-Tetramethylbenzene	45.6	
120-82-1	1,2,4-Trichlorobenzene	46.0	
91-20-3	Naphthalene	50.8	B
87-68-3	Hexachlorobutadiene	44.3	
87-61-6	1,2,3-Trichlorobenzene	48.4	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	B341041-MS1	File ID:	B341041-MS1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 17:53
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	62.8	
75-45-6	Chlorodifluoromethane	54.6	
74-87-3	Chloromethane	54.2	
75-01-4	Vinyl chloride	42.9	
74-83-9	Bromomethane	52.8	
75-00-3	Chloroethane	50.8	
75-69-4	Trichlorofluoromethane	55.4	
107-02-8	Acrolein	42.4	
67-64-1	Acetone	40.3	
75-35-4	1,1-Dichloroethene	50.9	
75-65-0	tert-Butyl alcohol	44.7	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	56.7	
79-20-9	Methyl Acetate	40.3	
107-13-1	Acrylonitrile	41.0	
75-09-2	Methylene Chloride	45.4	
75-15-0	Carbon disulfide	64.7	
1634-04-4	Methyl-tert-Butyl Ether	46.1	
156-60-5	trans-1,2-Dichloroethene	46.8	
75-34-3	1,1-Dichloroethane	47.2	
108-05-4	Vinyl Acetate	47.9	
78-93-3	Methyl Ethyl Ketone (2-Butanone)	45.8	
156-59-2	cis-1,2-Dichloroethene	48.1	
594-20-7	2,2-Dichloropropane	54.2	
74-97-5	Bromochloromethane	46.6	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	B341041-MS1	File ID:	B341041-MS1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 17:53
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
67-66-3	Chloroform	46.5	
71-55-6	1,1,1-Trichloroethane	49.1	
107-06-2	1,2-Dichloroethane	44.3	
563-58-6	1,1-Dichloropropene	49.7	
56-23-5	Carbon Tetrachloride	49.6	
71-43-2	Benzene	47.3	
79-01-6	Trichloroethene	54.3	
78-87-5	1,2-Dichloropropane	49.2	
74-95-3	Dibromomethane	48.3	
123-91-1	1,4-Dioxane	255	
75-27-4	Bromodichloromethane	48.8	
110-75-8	2-Chloroethyl Vinyl Ether	41.8	
108-10-1	4-Methyl-2-Pentanone	44.6	
10061-01-5	cis-1,3-Dichloropropene	47.9	
108-88-3	Toluene	53.9	
10061-02-6	trans-1,3-Dichloropropene	48.5	
79-00-5	1,1,2-Trichloroethane	46.8	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	43.7	
142-28-9	1,3-Dichloropropane	47.6	
124-48-1	Dibromochloromethane	47.9	
127-18-4	Tetrachloroethene	54.3	
106-93-4	1,2-Dibromoethane	47.7	
108-90-7	Chlorobenzene	51.4	
630-20-6	1,1,1,2-Tetrachloroethane	52.1	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
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1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341041-MS1	File ID:	B341041-MS1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 17:53
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
100-41-4	Ethylbenzene	55.4	
108-38-3/106-42-3	m,p-Xylenes	109	
100-42-5	Styrene	52.0	
95-47-6	o-Xylene	53.8	
75-25-2	Bromoform	47.3	
79-34-5	1,1,2,2-Tetrachloroethane	45.8	
98-82-8	Isopropylbenzene (Cumene)	55.5	
96-18-4	1,2,3-Trichloropropane	46.7	
108-86-1	Bromobenzene	48.0	
103-65-1	n-Propylbenzene	50.0	
95-49-8	2-Chlorotoluene	35.1	4.G
622-96-8	4-Ethyltoluene	35.2	4.G
106-43-4	4-Chlorotoluene	34.7	4.G
108-67-8	1,3,5-Trimethylbenzene	36.6	4.G
98-06-6	tert-Butylbenzene	34.7	
95-63-6	1,2,4-Trimethylbenzene	34.5	4.G
135-98-8	sec-Butylbenzene	42.8	
541-73-1	1,3-Dichlorobenzene	55.0	
99-87-6	4-Isopropyltoluene	61.2	
106-46-7	1,4-Dichlorobenzene	55.8	
95-50-1	1,2-Dichlorobenzene	55.9	
105-05-5	1,4-Diethylbenzene	61.4	4.G
104-51-8	n-Butylbenzene	61.9	
96-12-8	1,2-Dibromo-3-chloropropane	47.3	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341041-MS1	File ID:	B341041-MS1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 17:53
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
95-93-2	1,2,4,5-Tetramethylbenzene	59.8	
120-82-1	1,2,4-Trichlorobenzene	55.4	
91-20-3	Naphthalene	55.0	B
87-68-3	Hexachlorobutadiene	67.2	
87-61-6	1,2,3-Trichlorobenzene	56.1	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341041-MSD1	File ID:	B341041-MSD1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 18:18
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	52.9	
75-45-6	Chlorodifluoromethane	48.1	
74-87-3	Chloromethane	48.7	
75-01-4	Vinyl chloride	48.5	
74-83-9	Bromomethane	50.6	
75-00-3	Chloroethane	47.2	
75-69-4	Trichlorofluoromethane	47.0	
107-02-8	Acrolein	38.0	
67-64-1	Acetone	42.4	
75-35-4	1,1-Dichloroethene	43.3	
75-65-0	tert-Butyl alcohol	40.3	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	47.5	
79-20-9	Methyl Acetate	45.6	
107-13-1	Acrylonitrile	41.6	
75-09-2	Methylene Chloride	39.7	
75-15-0	Carbon disulfide	55.8	
1634-04-4	Methyl-tert-Butyl Ether	42.7	
156-60-5	trans-1,2-Dichloroethene	41.9	
75-34-3	1,1-Dichloroethane	41.9	
108-05-4	Vinyl Acetate	40.3	
78-93-3	Methyl Ethyl Ketone (2-Butanone)	47.9	
156-59-2	cis-1,2-Dichloroethene	42.9	
594-20-7	2,2-Dichloropropane	42.7	4.T
74-97-5	Bromochloromethane	43.8	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341041-MSD1	File ID:	B341041-MSD1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 18:18
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
67-66-3	Chloroform	41.8	
71-55-6	1,1,1-Trichloroethane	43.6	
107-06-2	1,2-Dichloroethane	40.9	
563-58-6	1,1-Dichloropropene	43.3	
56-23-5	Carbon Tetrachloride	43.8	
71-43-2	Benzene	42.8	
79-01-6	Trichloroethene	47.5	
78-87-5	1,2-Dichloropropane	44.0	
74-95-3	Dibromomethane	45.2	
123-91-1	1,4-Dioxane	255	
75-27-4	Bromodichloromethane	44.0	
110-75-8	2-Chloroethyl Vinyl Ether	41.1	
108-10-1	4-Methyl-2-Pentanone	44.8	
10061-01-5	cis-1,3-Dichloropropene	43.7	
108-88-3	Toluene	46.5	
10061-02-6	trans-1,3-Dichloropropene	43.5	
79-00-5	1,1,2-Trichloroethane	41.4	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	46.0	
142-28-9	1,3-Dichloropropane	45.1	
124-48-1	Dibromochloromethane	45.3	
127-18-4	Tetrachloroethene	46.2	
106-93-4	1,2-Dibromoethane	45.9	
108-90-7	Chlorobenzene	45.9	
630-20-6	1,1,1,2-Tetrachloroethane	46.7	

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341041-MSD1	File ID:	B341041-MSD1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 18:18
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
100-41-4	Ethylbenzene	47.8	
108-38-3/106-42-3	m,p-Xylenes	93.0	
100-42-5	Styrene	47.5	
95-47-6	o-Xylene	47.5	
75-25-2	Bromoform	45.6	
79-34-5	1,1,2,2-Tetrachloroethane	45.0	
98-82-8	Isopropylbenzene (Cumene)	47.7	
96-18-4	1,2,3-Trichloropropane	46.5	
108-86-1	Bromobenzene	46.4	
103-65-1	n-Propylbenzene	46.7	
95-49-8	2-Chlorotoluene	46.7	4.T
622-96-8	4-Ethyltoluene	48.5	4.T
106-43-4	4-Chlorotoluene	47.8	4.T
108-67-8	1,3,5-Trimethylbenzene	47.1	4.T
98-06-6	tert-Butylbenzene	47.7	4.T
95-63-6	1,2,4-Trimethylbenzene	46.5	4.T
135-98-8	sec-Butylbenzene	47.3	
541-73-1	1,3-Dichlorobenzene	49.0	
99-87-6	4-Isopropyltoluene	48.4	4.T
106-46-7	1,4-Dichlorobenzene	49.3	
95-50-1	1,2-Dichlorobenzene	48.5	
105-05-5	1,4-Diethylbenzene	48.5	4.T
104-51-8	n-Butylbenzene	48.2	4.T
96-12-8	1,2-Dibromo-3-chloropropane	47.6	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341041-MSD1	File ID:	B341041-MSD1.D
Sampled:		Prepared:	10/09/23 10:07	Analyzed:	10/09/23 18:18
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341041	Sequence:	S341020	Calibration:	UNASSIGNED
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
95-93-2	1,2,4,5-Tetramethylbenzene	48.5	4.T
120-82-1	1,2,4-Trichlorobenzene	49.2	
91-20-3	Naphthalene	55.2	B
87-68-3	Hexachlorobutadiene	49.9	4.T
87-61-6	1,2,3-Trichlorobenzene	52.2	

110 Colin Drive • Holbrook, New York 11741
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LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
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NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-BLK1	File ID:	B341082-BLK1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 14:41
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	5.00	U
75-45-6	Chlorodifluoromethane	5.00	U
74-87-3	Chloromethane	5.00	U
75-01-4	Vinyl chloride	5.00	U
74-83-9	Bromomethane	5.00	U
75-00-3	Chloroethane	5.00	U
75-69-4	Trichlorofluoromethane	5.00	U
107-02-8	Acrolein	5.00	U
67-64-1	Acetone	10.0	U
75-35-4	1,1-Dichloroethene	5.00	U
75-65-0	tert-Butyl alcohol	5.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	U
79-20-9	Methyl Acetate	5.00	U
107-13-1	Acrylonitrile	5.00	U
75-09-2	Methylene Chloride	5.00	U
75-15-0	Carbon disulfide	5.00	U
1634-04-4	Methyl-tert-Butyl Ether	5.00	U
156-60-5	trans-1,2-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
108-05-4	Vinyl Acetate	5.00	U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	10.0	U
156-59-2	cis-1,2-Dichloroethene	5.00	U
594-20-7	2,2-Dichloropropane	5.00	U
74-97-5	Bromochloromethane	5.00	U

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-BLK1	File ID:	B341082-BLK1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 14:41
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
67-66-3	Chloroform	5.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
563-58-6	1,1-Dichloropropene	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
71-43-2	Benzene	5.00	U
79-01-6	Trichloroethene	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
74-95-3	Dibromomethane	5.00	U
123-91-1	1,4-Dioxane	100	U
75-27-4	Bromodichloromethane	5.00	U
110-75-8	2-Chloroethyl Vinyl Ether	5.00	U
108-10-1	4-Methyl-2-Pentanone	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
108-88-3	Toluene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
591-78-6	Methyl Butyl Ketone (2-Hexanone)	10.0	U
142-28-9	1,3-Dichloropropane	5.00	U
124-48-1	Dibromochloromethane	5.00	U
127-18-4	Tetrachloroethene	5.00	U
106-93-4	1,2-Dibromoethane	5.00	U
108-90-7	Chlorobenzene	5.00	U
630-20-6	1,1,1,2-Tetrachloroethane	5.00	U

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-BLK1	File ID:	B341082-BLK1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 14:41
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
100-41-4	Ethylbenzene	5.00	U
108-38-3/106-42-3	m,p-Xylenes	10.0	U
100-42-5	Styrene	5.00	U
95-47-6	o-Xylene	5.00	U
75-25-2	Bromoform	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
98-82-8	Isopropylbenzene (Cumene)	5.00	U
96-18-4	1,2,3-Trichloropropane	5.00	U
108-86-1	Bromobenzene	5.00	U
103-65-1	n-Propylbenzene	5.00	U
95-49-8	2-Chlorotoluene	5.00	U
622-96-8	4-Ethyltoluene	5.00	U
106-43-4	4-Chlorotoluene	5.00	U
108-67-8	1,3,5-Trimethylbenzene	5.00	U
98-06-6	tert-Butylbenzene	5.00	U
95-63-6	1,2,4-Trimethylbenzene	5.00	U
135-98-8	sec-Butylbenzene	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	U
99-87-6	4-Isopropyltoluene	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	U
105-05-5	1,4-Diethylbenzene	5.00	U
104-51-8	n-Butylbenzene	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane	5.00	U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-BLK1	File ID:	B341082-BLK1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 14:41
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
95-93-2	1,2,4,5-Tetramethylbenzene	5.00	U
120-82-1	1,2,4-Trichlorobenzene	5.00	U
91-20-3	Naphthalene	10.1	4.C
87-68-3	Hexachlorobutadiene	5.00	U
87-61-6	1,2,3-Trichlorobenzene	5.35	4.C

LONG ISLAND ANALYTICAL LABORATORIES INC.
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AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-BS1	File ID:	B341082-BS1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 13:27
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	42.2	
75-45-6	Chlorodifluoromethane	41.7	
74-87-3	Chloromethane	44.6	
75-01-4	Vinyl chloride	38.0	
74-83-9	Bromomethane	48.4	
75-00-3	Chloroethane	43.8	
75-69-4	Trichlorofluoromethane	40.5	
107-02-8	Acrolein	45.0	
67-64-1	Acetone	44.2	
75-35-4	1,1-Dichloroethene	38.9	
75-65-0	tert-Butyl alcohol	41.6	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	40.2	
79-20-9	Methyl Acetate	42.9	
107-13-1	Acrylonitrile	45.9	
75-09-2	Methylene Chloride	42.1	
75-15-0	Carbon disulfide	48.5	
1634-04-4	Methyl-tert-Butyl Ether	43.5	
156-60-5	trans-1,2-Dichloroethene	41.7	
75-34-3	1,1-Dichloroethane	41.4	
108-05-4	Vinyl Acetate	52.2	
78-93-3	Methyl Ethyl Ketone (2-Butanone)	52.6	
156-59-2	cis-1,2-Dichloroethene	42.6	
594-20-7	2,2-Dichloropropane	42.5	
74-97-5	Bromochloromethane	44.9	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-BS1	File ID:	B341082-BS1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 13:27
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
67-66-3	Chloroform	42.4	
71-55-6	1,1,1-Trichloroethane	40.0	
107-06-2	1,2-Dichloroethane	42.6	
563-58-6	1,1-Dichloropropene	38.9	
56-23-5	Carbon Tetrachloride	38.7	4.N
71-43-2	Benzene	40.7	
79-01-6	Trichloroethene	42.8	
78-87-5	1,2-Dichloropropane	44.3	
74-95-3	Dibromomethane	47.1	
123-91-1	1,4-Dioxane	270	
75-27-4	Bromodichloromethane	44.4	
110-75-8	2-Chloroethyl Vinyl Ether	48.4	
108-10-1	4-Methyl-2-Pentanone	47.9	
10061-01-5	cis-1,3-Dichloropropene	45.4	
108-88-3	Toluene	44.9	
10061-02-6	trans-1,3-Dichloropropene	47.2	
79-00-5	1,1,2-Trichloroethane	46.4	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	48.6	
142-28-9	1,3-Dichloropropane	46.7	
124-48-1	Dibromochloromethane	46.6	
127-18-4	Tetrachloroethene	41.2	
106-93-4	1,2-Dibromoethane	48.4	
108-90-7	Chlorobenzene	44.1	
630-20-6	1,1,1,2-Tetrachloroethane	45.8	

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-BS1	File ID:	B341082-BS1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 13:27
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
100-41-4	Ethylbenzene	44.1	
108-38-3/106-42-3	m,p-Xylenes	85.8	
100-42-5	Styrene	45.3	
95-47-6	o-Xylene	44.7	
75-25-2	Bromoform	46.3	
79-34-5	1,1,2,2-Tetrachloroethane	47.4	
98-82-8	Isopropylbenzene (Cumene)	43.0	
96-18-4	1,2,3-Trichloropropane	46.7	
108-86-1	Bromobenzene	44.6	
103-65-1	n-Propylbenzene	41.7	
95-49-8	2-Chlorotoluene	44.2	
622-96-8	4-Ethyltoluene	44.0	
106-43-4	4-Chlorotoluene	43.9	
108-67-8	1,3,5-Trimethylbenzene	43.2	
98-06-6	tert-Butylbenzene	43.2	
95-63-6	1,2,4-Trimethylbenzene	43.3	
135-98-8	sec-Butylbenzene	41.2	
541-73-1	1,3-Dichlorobenzene	45.4	
99-87-6	4-Isopropyltoluene	42.6	
106-46-7	1,4-Dichlorobenzene	45.2	
95-50-1	1,2-Dichlorobenzene	45.4	
105-05-5	1,4-Diethylbenzene	42.0	
104-51-8	n-Butylbenzene	41.3	
96-12-8	1,2-Dibromo-3-chloropropane	48.7	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-BS1	File ID:	B341082-BS1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 13:27
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
95-93-2	1,2,4,5-Tetramethylbenzene	43.6	
120-82-1	1,2,4-Trichlorobenzene	42.1	
91-20-3	Naphthalene	42.4	B
87-68-3	Hexachlorobutadiene	41.5	
87-61-6	1,2,3-Trichlorobenzene	43.6	B

LONG ISLAND ANALYTICAL LABORATORIES INC.
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NYSDOH ELAP# 11693
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AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-MS1	File ID:	B341082-MS1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 13:52
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Column:	1				

Instrument: ChemStation05

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	34.0	
75-45-6	Chlorodifluoromethane	33.1	
74-87-3	Chloromethane	33.4	
75-01-4	Vinyl chloride	33.2	
74-83-9	Bromomethane	36.2	
75-00-3	Chloroethane	33.0	
75-69-4	Trichlorofluoromethane	32.8	4.G
107-02-8	Acrolein	30.0	
67-64-1	Acetone	28.4	
75-35-4	1,1-Dichloroethene	30.1	4.G
75-65-0	tert-Butyl alcohol	28.1	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	32.4	4.G
79-20-9	Methyl Acetate	29.9	
107-13-1	Acrylonitrile	30.3	4.G
75-09-2	Methylene Chloride	29.8	
75-15-0	Carbon disulfide	39.3	
1634-04-4	Methyl-tert-Butyl Ether	29.8	4.G
156-60-5	trans-1,2-Dichloroethene	30.1	4.G
75-34-3	1,1-Dichloroethane	29.7	4.G
108-05-4	Vinyl Acetate	35.0	
78-93-3	Methyl Ethyl Ketone (2-Butanone)	34.3	
156-59-2	cis-1,2-Dichloroethene	30.2	4.G
594-20-7	2,2-Dichloropropane	31.6	4.G
74-97-5	Bromochloromethane	31.7	4.G

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1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-MS1	File ID:	B341082-MS1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 13:52
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Column:	1				

Instrument: ChemStation05

CAS NO.	COMPOUND	CONC. (ug/L)	Q
67-66-3	Chloroform	30.2	4.G
71-55-6	1,1,1-Trichloroethane	30.4	4.G
107-06-2	1,2-Dichloroethane	29.9	4.G
563-58-6	1,1-Dichloropropene	30.2	4.G
56-23-5	Carbon Tetrachloride	30.0	4.G
71-43-2	Benzene	28.9	4.G
79-01-6	Trichloroethene	31.7	4.G
78-87-5	1,2-Dichloropropane	31.4	4.G
74-95-3	Dibromomethane	32.7	4.G
123-91-1	1,4-Dioxane	168	4.G
75-27-4	Bromodichloromethane	31.5	4.G
110-75-8	2-Chloroethyl Vinyl Ether	31.2	
108-10-1	4-Methyl-2-Pentanone	31.9	
10061-01-5	cis-1,3-Dichloropropene	31.7	4.G
108-88-3	Toluene	32.4	4.G
10061-02-6	trans-1,3-Dichloropropene	32.6	4.G
79-00-5	1,1,2-Trichloroethane	32.4	4.G
591-78-6	Methyl Butyl Ketone (2-Hexanone)	32.7	
142-28-9	1,3-Dichloropropane	31.8	4.G
124-48-1	Dibromochloromethane	31.9	4.G
127-18-4	Tetrachloroethene	31.6	4.G
106-93-4	1,2-Dibromoethane	32.6	4.G
108-90-7	Chlorobenzene	32.4	4.G
630-20-6	1,1,1,2-Tetrachloroethane	32.2	4.G

LONG ISLAND ANALYTICAL LABORATORIES INC.
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NYSDOH ELAP# 11693
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1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-MS1	File ID:	B341082-MS1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 13:52
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Column:	1				

Instrument: ChemStation05

CAS NO.	COMPOUND	CONC. (ug/L)	Q
100-41-4	Ethylbenzene	32.8	4.G
108-38-3/106-42-3	m,p-Xylenes	62.8	4.G
100-42-5	Styrene	33.1	4.G
95-47-6	o-Xylene	32.8	4.G
75-25-2	Bromoform	31.5	4.G
79-34-5	1,1,2,2-Tetrachloroethane	32.9	4.G
98-82-8	Isopropylbenzene (Cumene)	33.0	4.G
96-18-4	1,2,3-Trichloropropane	32.7	4.G
108-86-1	Bromobenzene	32.7	4.G
103-65-1	n-Propylbenzene	32.4	4.G
95-49-8	2-Chlorotoluene	33.0	4.G
622-96-8	4-Ethyltoluene	34.1	4.G
106-43-4	4-Chlorotoluene	33.0	4.G
108-67-8	1,3,5-Trimethylbenzene	32.9	4.G
98-06-6	tert-Butylbenzene	34.1	
95-63-6	1,2,4-Trimethylbenzene	32.7	4.G
135-98-8	sec-Butylbenzene	33.1	
541-73-1	1,3-Dichlorobenzene	35.0	4.G
99-87-6	4-Isopropyltoluene	34.1	4.G
106-46-7	1,4-Dichlorobenzene	35.3	4.G
95-50-1	1,2-Dichlorobenzene	34.8	4.G
105-05-5	1,4-Diethylbenzene	34.0	4.G
104-51-8	n-Butylbenzene	34.2	4.G
96-12-8	1,2-Dibromo-3-chloropropane	34.6	

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-MS1	File ID:	B341082-MS1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 13:52
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Column:	1				

Instrument: ChemStation05

CAS NO.	COMPOUND	CONC. (ug/L)	Q
95-93-2	1,2,4,5-Tetramethylbenzene	34.5	4.G
120-82-1	1,2,4-Trichlorobenzene	35.4	4.G
91-20-3	Naphthalene	39.0	B
87-68-3	Hexachlorobutadiene	34.8	4.G
87-61-6	1,2,3-Trichlorobenzene	37.7	B

LONG ISLAND ANALYTICAL LABORATORIES INC.
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NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-MSD1	File ID:	B341082-MSD1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 14:17
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	35.2	
75-45-6	Chlorodifluoromethane	30.9	
74-87-3	Chloromethane	31.2	4.G
75-01-4	Vinyl chloride	31.1	
74-83-9	Bromomethane	32.2	
75-00-3	Chloroethane	29.9	
75-69-4	Trichlorofluoromethane	31.9	4.G
107-02-8	Acrolein	25.8	4.G
67-64-1	Acetone	26.6	
75-35-4	1,1-Dichloroethene	28.0	4.G
75-65-0	tert-Butyl alcohol	24.8	4.G
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	33.2	4.G
79-20-9	Methyl Acetate	28.0	4.G
107-13-1	Acrylonitrile	28.0	4.G
75-09-2	Methylene Chloride	26.4	
75-15-0	Carbon disulfide	36.2	
1634-04-4	Methyl-tert-Butyl Ether	26.5	4.G
156-60-5	trans-1,2-Dichloroethene	26.5	4.G
75-34-3	1,1-Dichloroethane	26.6	4.G
108-05-4	Vinyl Acetate	30.4	
78-93-3	Methyl Ethyl Ketone (2-Butanone)	30.9	
156-59-2	cis-1,2-Dichloroethene	26.3	4.G
594-20-7	2,2-Dichloropropane	28.4	4.G
74-97-5	Bromochloromethane	27.4	4.G

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NYSDOH ELAP# 11693
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NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-MSD1	File ID:	B341082-MSD1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 14:17
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
67-66-3	Chloroform	27.0	4.G
71-55-6	1,1,1-Trichloroethane	28.2	4.G
107-06-2	1,2-Dichloroethane	26.8	4.G
563-58-6	1,1-Dichloropropene	28.1	4.G
56-23-5	Carbon Tetrachloride	28.5	4.G
71-43-2	Benzene	25.8	4.G
79-01-6	Trichloroethene	28.7	4.G
78-87-5	1,2-Dichloropropane	27.1	4.G
74-95-3	Dibromomethane	28.4	4.G
123-91-1	1,4-Dioxane	157	4.G
75-27-4	Bromodichloromethane	27.8	4.G
110-75-8	2-Chloroethyl Vinyl Ether	26.6	
108-10-1	4-Methyl-2-Pentanone	29.3	4.G
10061-01-5	cis-1,3-Dichloropropene	28.1	4.G
108-88-3	Toluene	29.4	4.G
10061-02-6	trans-1,3-Dichloropropene	28.1	4.G
79-00-5	1,1,2-Trichloroethane	28.2	4.G
591-78-6	Methyl Butyl Ketone (2-Hexanone)	29.6	
142-28-9	1,3-Dichloropropane	28.2	4.G
124-48-1	Dibromochloromethane	28.0	4.G
127-18-4	Tetrachloroethene	29.8	4.G
106-93-4	1,2-Dibromoethane	28.7	4.G
108-90-7	Chlorobenzene	29.1	4.G
630-20-6	1,1,1,2-Tetrachloroethane	28.9	4.G

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
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1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-MSD1	File ID:	B341082-MSD1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 14:17
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
100-41-4	Ethylbenzene	29.8	4.G
108-38-3/106-42-3	m,p-Xylenes	57.2	4.G
100-42-5	Styrene	29.5	4.G
95-47-6	o-Xylene	29.7	4.G
75-25-2	Bromoform	27.9	4.G
79-34-5	1,1,2,2-Tetrachloroethane	29.7	4.G
98-82-8	Isopropylbenzene (Cumene)	30.8	4.G
96-18-4	1,2,3-Trichloropropane	28.8	4.G
108-86-1	Bromobenzene	29.4	4.G
103-65-1	n-Propylbenzene	30.0	4.G
95-49-8	2-Chlorotoluene	30.0	4.G
622-96-8	4-Ethyltoluene	31.6	4.G
106-43-4	4-Chlorotoluene	29.7	4.G
108-67-8	1,3,5-Trimethylbenzene	30.0	4.G
98-06-6	tert-Butylbenzene	32.4	4.G
95-63-6	1,2,4-Trimethylbenzene	29.9	4.G
135-98-8	sec-Butylbenzene	31.4	
541-73-1	1,3-Dichlorobenzene	32.0	4.G
99-87-6	4-Isopropyltoluene	32.0	4.G
106-46-7	1,4-Dichlorobenzene	32.0	4.G
95-50-1	1,2-Dichlorobenzene	31.8	4.G
105-05-5	1,4-Diethylbenzene	31.2	4.G
104-51-8	n-Butylbenzene	31.1	4.G
96-12-8	1,2-Dibromo-3-chloropropane	31.4	

LONG ISLAND ANALYTICAL LABORATORIES INC.
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NYSDOH ELAP# 11693
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AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Long Island Analytical Laboratories, Inc.			Work Order:	3100519
Client:	Alpha Geoscience		Project:	Ranco Sand & Stone	
Matrix:	Non-Potable Water	Laboratory ID:	B341082-MSD1	File ID:	B341082-MSD1.D
Sampled:		Prepared:	10/10/23 12:10	Analyzed:	10/10/23 14:17
Solids:		Preparation:	EPA 5030 C	Dilution:	
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				
Column:	1				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
95-93-2	1,2,4,5-Tetramethylbenzene	31.5	4.G
120-82-1	1,2,4-Trichlorobenzene	32.8	4.G
91-20-3	Naphthalene	38.2	B
87-68-3	Hexachlorobutadiene	30.2	4.G
87-61-6	1,2,3-Trichlorobenzene	35.4	4.G, B

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:31
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	5.00	U
75-45-6	Chlorodifluoromethane	5.00	2.B, U
74-87-3	Chloromethane	5.00	U
75-01-4	Vinyl chloride	5.00	U
74-83-9	Bromomethane	5.00	U
75-00-3	Chloroethane	5.00	U
75-69-4	Trichlorofluoromethane	5.00	4.G, U
107-02-8	Acrolein	5.00	U
67-64-1	Acetone	10.0	U
75-35-4	1,1-Dichloroethene	5.00	4.G, U
75-65-0	tert-Butyl alcohol	5.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	4.G, U
79-20-9	Methyl Acetate	5.00	U
107-13-1	Acrylonitrile	5.00	4.G, U
75-09-2	Methylene Chloride	5.00	U
75-15-0	Carbon disulfide	5.00	U
1634-04-4	Methyl-tert-Butyl Ether	5.00	4.G, U
156-60-5	trans-1,2-Dichloroethene	5.00	4.G, U
75-34-3	1,1-Dichloroethane	5.00	4.G, U
108-05-4	Vinyl Acetate	5.00	U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	10.0	U
156-59-2	cis-1,2-Dichloroethene	5.00	4.G, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
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Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:31
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
594-20-7	2,2-Dichloropropane	5.00	4.G, U
74-97-5	Bromochloromethane	5.00	4.G, U
67-66-3	Chloroform	5.00	4.G, U
71-55-6	1,1,1-Trichloroethane	5.00	4.G, U
107-06-2	1,2-Dichloroethane	5.00	4.G, U
563-58-6	1,1-Dichloropropene	5.00	4.G, U
56-23-5	Carbon Tetrachloride	5.00	4.N, 4.G, U
71-43-2	Benzene	5.00	4.G, U
79-01-6	Trichloroethene	5.00	4.G, U
78-87-5	1,2-Dichloropropane	5.00	4.G, U
74-95-3	Dibromomethane	5.00	4.G, U
123-91-1	1,4-Dioxane	100	4.J, 4.G, U
75-27-4	Bromodichloromethane	5.00	4.G, U
110-75-8	2-Chloroethyl Vinyl Ether	5.00	U
108-10-1	4-Methyl-2-Pentanone	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	4.G, U
108-88-3	Toluene	5.00	4.G, U
10061-02-6	trans-1,3-Dichloropropene	5.00	4.G, U
79-00-5	1,1,2-Trichloroethane	5.00	4.G, U
591-78-6	Methyl Butyl Ketone (2-Hexanone)	10.0	U
142-28-9	1,3-Dichloropropane	5.00	4.G, U
124-48-1	Dibromochloromethane	5.00	4.G, U

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
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1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:31
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
127-18-4	Tetrachloroethene	5.00	4.G, U
106-93-4	1,2-Dibromoethane	5.00	4.G, U
108-90-7	Chlorobenzene	5.00	4.G, U
630-20-6	1,1,1,2-Tetrachloroethane	5.00	4.G, U
100-41-4	Ethylbenzene	5.00	4.G, U
108-38-3/106-42-3	m,p-Xylenes	10.0	4.C, 4.G, U
100-42-5	Styrene	5.00	4.G, U
95-47-6	o-Xylene	5.00	4.C, 4.G, U
75-25-2	Bromoform	5.00	4.G, U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	4.G, U
98-82-8	Isopropylbenzene (Cumene)	5.00	4.G, U
96-18-4	1,2,3-Trichloropropane	5.00	4.G, U
108-86-1	Bromobenzene	5.00	4.G, U
103-65-1	n-Propylbenzene	5.00	4.G, U
95-49-8	2-Chlorotoluene	5.00	4.G, U
622-96-8	4-Ethyltoluene	5.00	4.G, 2.B, U
106-43-4	4-Chlorotoluene	5.00	4.G, U
108-67-8	1,3,5-Trimethylbenzene	5.00	4.G, U
98-06-6	tert-Butylbenzene	5.00	U
95-63-6	1,2,4-Trimethylbenzene	5.00	4.G, U
135-98-8	sec-Butylbenzene	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	4.G, U

1 - FORM I
ANALYSIS DATA SHEET

MW-7A

Laboratory:	Long Island Analytical Laboratories, Inc.			SDG:	
Client:	Alpha Geoscience			Project:	Ranco Sand & Stone
Matrix:	Non-Potable Water	Laboratory ID:	3100519-03	File ID:	3100519-03.D
Sampled:	10/04/23 10:48	Prepared:	10/10/23 12:10	Analyzed:	10/10/23 15:31
Solids:		Preparation:	EPA 5030 C	Dilution:	1
Batch:	B341082	Sequence:	S341026	Calibration:	L404001
Instrument:	ChemStation05				

CAS NO.	COMPOUND	CONC. (ug/L)	Q
99-87-6	4-Isopropyltoluene	5.00	4.G, U
106-46-7	1,4-Dichlorobenzene	5.00	4.G, U
95-50-1	1,2-Dichlorobenzene	5.00	4.G, U
105-05-5	1,4-Diethylbenzene	5.00	4.G, 2.B, U
104-51-8	n-Butylbenzene	5.00	4.G, U
96-12-8	1,2-Dibromo-3-chloropropane	5.00	U
95-93-2	1,2,4,5-Tetramethylbenzene	5.00	2.B, 4.G, U
120-82-1	1,2,4-Trichlorobenzene	5.00	4.G, U
91-20-3	Naphthalene	5.00	4.C, U
87-68-3	Hexachlorobutadiene	5.00	4.G, U
87-61-6	1,2,3-Trichlorobenzene	5.00	4.C, U

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10 2023\1009\
Data File : 3100519-01.D
Acq On : 9 Oct 2023 8:21 pm
Operator : JN
Sample : 3100519-01
Misc : CHEM05
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 10 13:25:12 2023
Quant Method : C:\msdchem\1\methods\20231002.M
Quant Title : EPA 8260 Multi point calibration
QLast Update : Tue Oct 10 13:23:25 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Pentafluourobenzene	5.065	168	1054887	50.00 ppb	#	0.00
33) 1,4-Difluourobenzene	5.813	114	1684766	50.00 ppb	#	0.00
51) Chlorobenzene-d5	8.703	117	1721237	50.00 ppb	#	0.00
72) 1,4-Dichlorobenzene-d4	11.081	152	973640	50.00 ppb		0.00
System Monitoring Compounds						
28) Dibromofluouromethane	4.840	113	535188	46.41 ppb		0.00
42) 1,2-Dichloroethane-d4	5.266	65	547354	49.27 ppb		0.00
62) Toluene-d8	7.310	98	1946171	49.55 ppb		0.00
73) 4-Bromofluourobenzene	9.889	174	800752	53.45 ppb		0.00
Target Compounds						Qvalue
2) 75-71-8!Dichlorodifluo...	0.000		0	N.D.		
3) 75-45-6!Chlorodifluoro...	0.000		0	N.D.		
4) 74-87-3!Chloromethane	0.000		0	N.D.		
5) 75-01-4!Chloroethene (...	0.000		0	N.D.		
6) 74-83-9!Bromomethane	2.090	94	1909	Below Cal	#	80
7) 75-00-3!Chloroethane	0.000		0	N.D.		
8) 75-69-4!Trichloromonof...	2.461	101	196	1.69 ppb	#	32
9) 107-02-8!Acrolein	0.000		0	N.D.		
10) 67-64-1!Acetone	2.631	43	7741	0.71 ppb	#	87
11) 75-35-4!1,1-Dichloroet...	0.000		0	N.D.		
12) 75-65-0!Tert-Butyl Alc...	0.000		0	N.D.		
13) 76-13-1!Freon 113	2.948	101	193	2.01 ppb	#	18
14) 70-20-9!Methyl Acetate	3.112	43	2249	0.28 ppb	#	56
15) 107-13-1!Acrylonitrile	0.000		0	N.D.		
16) 75-09-2!Methylene chlo...	3.209	49	1989	0.20 ppb	#	80
17) 75-15-0!Carbon disulfide	3.294	76	3363	2.03 ppb	#	61
18) 1634-04-4!MTBE	0.000		0	N.D.		
19) 156-60-5!trans[E]-1,2-...	0.000		0	N.D.		
20) 75-34-3!1,1-Dichloroet...	0.000		0	N.D.		
21) 108-05-4!Vinyl acetate	4.079	43	761	N.D.		
22) 78-93-3!2-Butanone (MEK)	0.000		0	N.D.		
23) 156-59-2!cis[Z]-1,2dic...	0.000		0	N.D.		
24) 594-20-7!2,2-Dichlorop...	0.000		0	N.D.		
25) 74-97-5!Bromochloromet...	0.000		0	N.D.		
26) 67-66-3!Chloroform	0.000		0	N.D.		
27) 71-55-6!1,1,1-Trichlor...	0.000		0	N.D.		
29) 107-06-2!1,2-Dichloroe...	5.351	62	1313	1.77 ppb	#	71
30) 563-58-6!1,1-Dichlorop...	5.369	75	188	2.51 ppb	#	33
31) 56-23-5!Carbon tetrach...	0.000		0	N.D.		
32) 71-43-2!Benzene	5.503	78	28561	1.13 ppb	#	95
34) 79-01-6!Trichloroethylene	6.184	130	211	N.D.		
35) 78-87-5!1,2-Dichloropr...	0.000		0	N.D.		
36) 74-95-3!Dibromomethane	0.000		0	N.D.		
37) 123-91-1!1,4 Dioxane	0.000		0	N.D.		
38) 75-27-4!Bromodichlorom...	6.537	83	207	2.21 ppb	#	32
39) 110-75-8!2-Chloroethyl...	0.000		0	N.D.		
40) 108-10-1!Methyl isobut...	0.000		0	N.D.		

41)	10061-01-5!cis[Z]-1,3-...	0.000		0	N.D.		
43)	108-88-3!Toluene	7.383	91	21111	0.87 ppb		91
44)	10061-02-6!trans[E]-1,...	7.395	75	184	N.D.		
45)	79-00-5!1,1,2-Trichlor...	0.000		0	N.D.		
46)	591-78-6!2-Hexanone	0.000		0	N.D.		
47)	142-28-9!1,3-Dichlorop...	0.000		0	N.D.		
48)	124-48-1!Dibromochloro...	8.094	129	455	N.D.		
49)	127-18-4!Tetrachloroet...	8.094	166	573	2.63 ppb	#	66
50)	106-93-4!1,2-Dibromoet...	0.000		0	N.D.		
52)	108-90-7!Chlorobenzene	8.733	112	1840	2.15 ppb	#	1
53)	630-20-6!1,1,1,2-Tetra...	0.000		0	N.D.		
54)	100-41-4!Ethylbenzene	8.885	91	4724	0.17 ppb		97
55)	1330-20-7!p&m-Xylene	8.995	91	18178	0.80 ppb		94
56)	100-42-5!Styrene	9.360	104	1793	0.09 ppb	#	88
57)	95-47-6!o-Xylene	9.378	91	7332	0.32 ppb		91
58)	75-25-2!Bromoform	0.000		0	N.D.		
59)	79-34-5!1,1,2,2-Tetrac...	0.000		0	N.D.		
60)	98-82-8!Isopropylbenzene	9.780	105	1827	N.D.		
61)	96-18-4!1,2,3-Trichlor...	0.000		0	N.D.		
63)	108-86-1!Bromobenzene	10.035	77	1349	0.12 ppb	#	88
64)	103-65-1!n-Propylbenzene	10.187	91	4547	0.14 ppb	#	81
65)	95-49-8!2-Chlorotoluene	10.260	91	3055	0.16 ppb	#	88
66)	622-96-8!p-Ethyltoluene	10.303	105	7316	1.48 ppb	#	68
67)	106-43-4!4-Chlorotoluene	10.327	91	4891	0.24 ppb	#	79
68)	108-67-8!1,3,5-Trimeth...	10.364	105	5256	0.21 ppb	#	89
69)	98-06-6!tert-Butylbenzene	0.000		0	N.D.		
70)	95-63-6!1,2,4-Trimethy...	10.735	105	11417	0.43 ppb	#	97
71)	135-98-8!sec-Butylbenzene	10.935	105	3513	0.13 ppb	#	67
74)	541-73-1!1,3-Dichlorob...	11.015	146	4444	0.32 ppb	#	83
75)	99-87-6!p-Isopropyltol...	11.075	119	5796	0.25 ppb	#	61
76)	106-46-7!1,4-Dichlorob...	11.106	146	5068	0.37 ppb	#	73
77)	95-50-1!1,2-Dichlorobe...	11.422	146	3283	0.23 ppb		97
78)	105-05-5!1,4-Diethylbe...	11.471	119	7379	0.61 ppb	#	71
79)	104-51-8!n-Butylbenzene	11.477	91	8452	0.40 ppb	#	79
80)	96-12-8!1,2-dibromo-3-...	0.000		0	N.D.		
81)	95-93-2!1,2,4,5-Tetram...	12.243	119	9405	0.44 ppb	#	93
82)	120-82-1!1,2,4-Trichlo...	13.144	180	6219	0.80 ppb		96
83)	91-20-3!Naphthalene	13.290	128	39820	1.93 ppb		99
84)	87-68-3!Hexachlorobuta...	13.424	225	2441	0.81 ppb		96
85)	87-61-6!1,2,3-Trichlor...	13.576	180	5623	0.80 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

20231229.M Fri Jan 12 15:14:00 2024 CHEM05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10 2023\1010\
Data File : 3100519-02.D
Acq On : 10 Oct 2023 3:06 pm
Operator : JN
Sample : 3100519-02
Misc : CHEM05
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 11 10:14:09 2023
Quant Method : C:\msdchem\1\methods\20231002.M
Quant Title : EPA 8260 Multi point calibration
QLast Update : Tue Oct 10 13:23:25 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluourobenzene	5.065	168	973736	50.00	ppb	#	0.00
33) 1,4-Difluourobenzene	5.813	114	1592727	50.00	ppb	#	0.00
51) Chlorobenzene-d5	8.703	117	1625139	50.00	ppb	#	0.00
72) 1,4-Dichlorobenzene-d4	11.082	152	918692	50.00	ppb		0.00
System Monitoring Compounds							
28) Dibromofluouromethane	4.840	113	503358	47.29	ppb		0.00
42) 1,2-Dichloroethane-d4	5.266	65	520830	49.59	ppb		0.00
62) Toluene-d8	7.310	98	1810685	48.83	ppb		0.00
73) 4-Bromofluourobenzene	9.889	174	752304	53.22	ppb		0.00
Target Compounds							Qvalue
2) 75-71-8!Dichlorodifluo...	1.597	85	450	0.13	ppb	#	55
3) 75-45-6!Chlorodifluoro...	1.579	51	374	N.D.			
4) 74-87-3!Chloromethane	1.725	50	826	0.36	ppb	#	53
5) 75-01-4!Chloroethene (...	1.816	62	430	1.16	ppb	#	4
6) 74-83-9!Bromomethane	2.090	94	2838	Below Cal		#	81
7) 75-00-3!Chloroethane	0.000		0	N.D.			
8) 75-69-4!Trichloromonof...	2.455	101	1061	1.82	ppb	#	89
9) 107-02-8!Acrolein	2.546	56	187	0.16	ppb	#	1
10) 67-64-1!Acetone	2.625	43	8130	1.08	ppb		98
11) 75-35-4!1,1-Dichloroet...	2.911	61	779	0.10	ppb	#	53
12) 75-65-0!Tert-Butyl Alc...	4.572	59	1249	0.08	ppb	#	85
13) 76-13-1!Freon 113	2.948	101	1599	2.27	ppb	#	82
14) 70-20-9!Methyl Acetate	3.106	43	5539	0.76	ppb	#	61
15) 107-13-1!Acrylonitrile	0.000		0	N.D.			
16) 75-09-2!Methylene chlo...	3.203	49	2622	0.30	ppb	#	85
17) 75-15-0!Carbon disulfide	3.289	76	7495	2.43	ppb		97
18) 1634-04-4!MTBE	3.654	73	934	2.29	ppb	#	75
19) 156-60-5!trans[E]-1,2-...	4.487	61	753	1.93	ppb	#	65
20) 75-34-3!1,1-Dichloroet...	3.939	63	725	1.62	ppb	#	54
21) 108-05-4!Vinyl acetate	3.958	43	1892	0.18	ppb	#	75
22) 78-93-3!2-Butanone (MEK)	0.000		0	N.D.			
23) 156-59-2!cis[Z]-1,2dic...	4.487	61	753	0.10	ppb	#	64
24) 594-20-7!2,2-Dichlorop...	4.578	77	399	1.03	ppb	#	51
25) 74-97-5!Bromochloromet...	4.724	130	220	N.D.			
26) 67-66-3!Chloroform	4.694	83	1286	1.92	ppb	#	56
27) 71-55-6!1,1,1-Trichlor...	5.168	97	726	2.32	ppb	#	66
29) 107-06-2!1,2-Dichloroe...	5.345	62	1898	1.84	ppb	#	70
30) 563-58-6!1,1-Dichlorop...	5.369	75	1381	2.68	ppb	#	58
31) 56-23-5!Carbon tetrach...	5.473	117	215	3.02	ppb	#	18
32) 71-43-2!Benzene	5.503	78	18362	0.79	ppb	#	93
34) 79-01-6!Trichloroethylene	6.184	130	1415	0.23	ppb		97
35) 78-87-5!1,2-Dichloropr...	0.000		0	N.D.			
36) 74-95-3!Dibromomethane	6.342	174	426	0.09	ppb	#	35
37) 123-91-1!1,4 Dioxane	0.000		0	N.D.			
38) 75-27-4!Bromodichlorom...	6.391	83	808	2.28	ppb	#	57
39) 110-75-8!2-Chloroethyl...	0.000		0	N.D.			
40) 108-10-1!Methyl isobut...	0.000		0	N.D.			

41)	10061-01-5!cis[Z]-1,3-...	6.933	75	1134	2.26 ppb	#	48
43)	108-88-3!Toluene	7.383	91	19552	0.85 ppb		95
44)	10061-02-6!trans[E]-1,...	7.389	75	1357	0.15 ppb	#	1
45)	79-00-5!1,1,2-Trichlor...	7.535	97	449	2.02 ppb	#	25
46)	591-78-6!2-Hexanone	7.693	58	619	0.20 ppb	#	1
47)	142-28-9!1,3-Dichlorop...	7.742	76	550	N.D.		
48)	124-48-1!Dibromochloro...	7.985	129	438	N.D.		
49)	127-18-4!Tetrachloroet...	8.095	166	2353	2.89 ppb	#	86
50)	106-93-4!1,2-Dibromoet...	8.198	107	462	N.D.		
52)	108-90-7!Chlorobenzene	8.733	112	4762	2.31 ppb	#	1
53)	630-20-6!1,1,1,2-Tetra...	8.776	131	447	N.D.		
54)	100-41-4!Ethylbenzene	8.885	91	9147	0.35 ppb		96
55)	1330-20-7!p&m-Xylene	8.995	91	22357	1.04 ppb		98
56)	100-42-5!Styrene	9.354	104	5749	0.30 ppb		94
57)	95-47-6!o-Xylene	9.384	91	8687	0.40 ppb		97
58)	75-25-2!Bromoform	9.451	173	672	0.10 ppb	#	1
59)	79-34-5!1,1,2,2-Tetrac...	9.713	83	1320	2.33 ppb	#	88
60)	98-82-8!Isopropylbenzene	9.780	105	6254	0.24 ppb	#	89
61)	96-18-4!1,2,3-Trichlor...	0.000		0	N.D.		
63)	108-86-1!Bromobenzene	10.035	77	3999	0.37 ppb	#	85
64)	103-65-1!n-Propylbenzene	10.187	91	11704	0.39 ppb	#	94
65)	95-49-8!2-Chlorotoluene	10.260	91	7592	0.41 ppb		98
66)	622-96-8!p-Ethyltoluene	10.303	105	19745	1.95 ppb	#	73
67)	106-43-4!4-Chlorotoluene	10.327	91	13327	0.70 ppb		93
68)	108-67-8!1,3,5-Trimeth...	10.364	105	10624	0.46 ppb		98
69)	98-06-6!tert-Butylbenzene	10.704	134	1379	0.30 ppb	#	1
70)	95-63-6!1,2,4-Trimethy...	10.735	105	17617	0.70 ppb	#	76
71)	135-98-8!sec-Butylbenzene	10.936	105	10943	0.42 ppb		98
74)	541-73-1!1,3-Dichlorob...	11.015	146	10759	0.82 ppb		96
75)	99-87-6!p-Isopropyltol...	11.075	119	15951	0.74 ppb	#	87
76)	106-46-7!1,4-Dichlorob...	11.106	146	11818	0.92 ppb	#	72
77)	95-50-1!1,2-Dichlorobe...	11.422	146	9124	0.68 ppb		96
78)	105-05-5!1,4-Diethylbe...	11.471	119	13704	1.21 ppb	#	81
79)	104-51-8!n-Butylbenzene	11.477	91	19102	0.97 ppb	#	88
80)	96-12-8!1,2-dibromo-3-...	12.067	157	1114	0.48 ppb	#	72
81)	95-93-2!1,2,4,5-Tetram...	12.244	119	20875	1.03 ppb	#	92
82)	120-82-1!1,2,4-Trichlo...	13.144	180	16249	2.21 ppb		95
83)	91-20-3!Naphthalene	13.290	128	98806	5.06 ppb		99
84)	87-68-3!Hexachlorobuta...	13.424	225	4741	1.67 ppb		90
85)	87-61-6!1,2,3-Trichlor...	13.576	180	15713	2.38 ppb		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

20231229.M Fri Jan 12 15:14:31 2024 CHEM05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10 2023\1010\
Data File : 3100519-03.D
Acq On : 10 Oct 2023 3:31 pm
Operator : JN
Sample : 3100519-03
Misc : CHEM05
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 11 10:14:24 2023
Quant Method : C:\msdchem\1\methods\20231002.M
Quant Title : EPA 8260 Multi point calibration
QLast Update : Tue Oct 10 13:23:25 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluourobenzene	5.065	168	1007179	50.00	ppb	#	0.00
33) 1,4-Difluourobenzene	5.813	114	1635216	50.00	ppb	#	0.00
51) Chlorobenzene-d5	8.703	117	1680800	50.00	ppb	#	0.00
72) 1,4-Dichlorobenzene-d4	11.081	152	953865	50.00	ppb		0.00
System Monitoring Compounds							
28) Dibromofluouromethane	4.840	113	522766	47.48	ppb		0.00
42) 1,2-Dichloroethane-d4	5.266	65	535509	49.66	ppb		0.00
62) Toluene-d8	7.310	98	1895400	49.42	ppb		0.00
73) 4-Bromofluourobenzene	9.889	174	782476	53.31	ppb		0.00
Target Compounds							Qvalue
2) 75-71-8!Dichlorodifluo...	1.591	85	191	N.D.			
3) 75-45-6!Chlorodifluoro...	0.000		0	N.D.			
4) 74-87-3!Chloromethane	0.000		0	N.D.			
5) 75-01-4!Chloroethene (...	0.000		0	N.D.			
6) 74-83-9!Bromomethane	2.090	94	2691	Below Cal		#	68
7) 75-00-3!Chloroethane	0.000		0	N.D.			
8) 75-69-4!Trichloromonof...	2.455	101	267	1.70	ppb	#	32
9) 107-02-8!Acrolein	2.564	56	196	0.16	ppb	#	1
10) 67-64-1!Acetone	2.625	43	9365	1.43	ppb	#	79
11) 75-35-4!1,1-Dichloroet...	2.911	61	407	N.D.			
12) 75-65-0!Tert-Butyl Alc...	0.000		0	N.D.			
13) 76-13-1!Freon 113	2.942	101	1099	2.17	ppb	#	59
14) 70-20-9!Methyl Acetate	3.106	43	6648	0.88	ppb	#	56
15) 107-13-1!Acrylonitrile	0.000		0	N.D.			
16) 75-09-2!Methylene chlo...	3.203	49	2109	0.23	ppb	#	81
17) 75-15-0!Carbon disulfide	3.288	76	4940	2.18	ppb	#	91
18) 1634-04-4!MTBE	0.000		0	N.D.			
19) 156-60-5!trans[E]-1,2-...	4.493	61	445	1.89	ppb	#	59
20) 75-34-3!1,1-Dichloroet...	3.939	63	371	1.59	ppb	#	54
21) 108-05-4!Vinyl acetate	3.958	43	2490	0.22	ppb	#	75
22) 78-93-3!2-Butanone (MEK)	0.000		0	N.D.			
23) 156-59-2!cis[Z]-1,2dic...	4.493	61	445	N.D.			
24) 594-20-7!2,2-Dichlorop...	0.000		0	N.D.			
25) 74-97-5!Bromochloromet...	0.000		0	N.D.			
26) 67-66-3!Chloroform	4.694	83	443	1.85	ppb	#	31
27) 71-55-6!1,1,1-Trichlor...	5.180	97	187	2.26	ppb	#	1
29) 107-06-2!1,2-Dichloroe...	5.345	62	1611	1.80	ppb	#	79
30) 563-58-6!1,1-Dichlorop...	5.369	75	899	2.61	ppb	#	24
31) 56-23-5!Carbon tetrach...	0.000		0	N.D.			
32) 71-43-2!Benzene	5.503	78	15979	0.66	ppb	#	95
34) 79-01-6!Trichloroethylene	6.190	130	758	0.12	ppb		94
35) 78-87-5!1,2-Dichloropr...	0.000		0	N.D.			
36) 74-95-3!Dibromomethane	0.000		0	N.D.			
37) 123-91-1!1,4 Dioxane	0.000		0	N.D.			
38) 75-27-4!Bromodichlorom...	0.000		0	N.D.			
39) 110-75-8!2-Chloroethyl...	0.000		0	N.D.			
40) 108-10-1!Methyl isobut...	0.000		0	N.D.			

41)	10061-01-5!cis[Z]-1,3-...	6.932	75	682	2.21 ppb	#	48
43)	108-88-3!Toluene	7.383	91	17194	0.73 ppb		95
44)	10061-02-6!trans[E]-1,...	7.389	75	907	0.10 ppb	#	1
45)	79-00-5!1,1,2-Trichlor...	0.000		0	N.D.		
46)	591-78-6!2-Hexanone	0.000		0	N.D.		
47)	142-28-9!1,3-Dichlorop...	7.742	76	265	N.D.		
48)	124-48-1!Dibromochloro...	8.094	129	922	0.11 ppb	#	1
49)	127-18-4!Tetrachloroet...	8.094	166	1786	2.80 ppb	#	67
50)	106-93-4!1,2-Dibromoet...	8.198	107	196	N.D.		
52)	108-90-7!Chlorobenzene	8.733	112	3283	2.23 ppb	#	1
53)	630-20-6!1,1,1,2-Tetra...	0.000		0	N.D.		
54)	100-41-4!Ethylbenzene	8.885	91	6768	0.25 ppb		91
55)	1330-20-7!p&m-Xylene	8.995	91	17292	0.78 ppb		96
56)	100-42-5!Styrene	9.354	104	3405	0.17 ppb	#	91
57)	95-47-6!o-Xylene	9.378	91	7208	0.32 ppb		89
58)	75-25-2!Bromoform	0.000		0	N.D.		
59)	79-34-5!1,1,2,2-Tetrac...	9.707	83	840	2.28 ppb	#	78
60)	98-82-8!Isopropylbenzene	9.780	105	3957	0.15 ppb	#	78
61)	96-18-4!1,2,3-Trichlor...	9.889	110	183	N.D.		
63)	108-86-1!Bromobenzene	10.041	77	2740	0.24 ppb	#	82
64)	103-65-1!n-Propylbenzene	10.187	91	7815	0.25 ppb	#	85
65)	95-49-8!2-Chlorotoluene	10.260	91	5515	0.29 ppb	#	88
66)	622-96-8!p-Ethyltoluene	10.303	105	15089	1.76 ppb	#	73
67)	106-43-4!4-Chlorotoluene	10.327	91	9336	0.47 ppb		90
68)	108-67-8!1,3,5-Trimeth...	10.364	105	7205	0.30 ppb	#	97
69)	98-06-6!tert-Butylbenzene	10.710	134	749	0.16 ppb	#	5
70)	95-63-6!1,2,4-Trimethy...	10.735	105	13910	0.54 ppb	#	89
71)	135-98-8!sec-Butylbenzene	10.935	105	6715	0.25 ppb	#	88
74)	541-73-1!1,3-Dichlorob...	11.015	146	6848	0.50 ppb		96
75)	99-87-6!p-Isopropyltol...	11.075	119	10286	0.46 ppb	#	72
76)	106-46-7!1,4-Dichlorob...	11.106	146	7841	0.59 ppb	#	1
77)	95-50-1!1,2-Dichlorobe...	11.422	146	5675	0.41 ppb		95
78)	105-05-5!1,4-Diethylbe...	11.471	119	10378	0.88 ppb	#	73
79)	104-51-8!n-Butylbenzene	11.477	91	12699	0.62 ppb	#	83
80)	96-12-8!1,2-dibromo-3-...	12.073	157	252	0.11 ppb	#	9
81)	95-93-2!1,2,4,5-Tetram...	12.243	119	13372	0.64 ppb	#	97
82)	120-82-1!1,2,4-Trichlo...	13.144	180	10574	1.38 ppb		97
83)	91-20-3!Naphthalene	13.290	128	58576	2.90 ppb		98
84)	87-68-3!Hexachlorobuta...	13.430	225	3866	1.31 ppb	#	83
85)	87-61-6!1,2,3-Trichlor...	13.576	180	9792	1.43 ppb	#	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

20231229.M Fri Jan 12 15:14:40 2024 CHEM05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10 2023\1010\
Data File : 3100519-04.D
Acq On : 10 Oct 2023 3:56 pm
Operator : JN
Sample : 3100519-04
Misc : CHEM05
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 11 10:14:49 2023
Quant Method : C:\msdchem\1\methods\20231002.M
Quant Title : EPA 8260 Multi point calibration
QLast Update : Tue Oct 10 13:23:25 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluourobenzene	5.065	168	986075	50.00 ppb	# 0.00
33) 1,4-Difluourobenzene	5.813	114	1619848	50.00 ppb	# 0.00
51) Chlorobenzene-d5	8.703	117	1658061	50.00 ppb	# 0.00
72) 1,4-Dichlorobenzene-d4	11.082	152	945354	50.00 ppb	0.00
System Monitoring Compounds					
28) Dibromofluouromethane	4.840	113	515410	47.81 ppb	0.00
42) 1,2-Dichloroethane-d4	5.272	65	527793	49.41 ppb	0.00
62) Toluene-d8	7.310	98	1871334	49.46 ppb	0.00
73) 4-Bromofluourobenzene	9.889	174	775941	53.34 ppb	0.00
Target Compounds					Qvalue
2) 75-71-8!Dichlorodifluo...	0.000		0	N.D.	
3) 75-45-6!Chlorodifluoro...	0.000		0	N.D.	
4) 74-87-3!Chloromethane	0.000		0	N.D.	
5) 75-01-4!Chloroethene (...	0.000		0	N.D.	
6) 74-83-9!Bromomethane	2.096	94	2157	Below Cal #	72
7) 75-00-3!Chloroethane	0.000		0	N.D.	
8) 75-69-4!Trichloromonof...	2.449	101	189	1.69 ppb #	32
9) 107-02-8!Acrolein	0.000		0	N.D.	
10) 67-64-1!Acetone	2.625	43	9467	1.54 ppb	93
11) 75-35-4!1,1-Dichloroet...	0.000		0	N.D.	
12) 75-65-0!Tert-Butyl Alc...	0.000		0	N.D.	
13) 76-13-1!Freon 113	2.942	101	819	2.13 ppb #	43
14) 70-20-9!Methyl Acetate	3.106	43	5004	0.67 ppb #	56
15) 107-13-1!Acrylonitrile	0.000		0	N.D.	
16) 75-09-2!Methylene chlo...	3.209	49	2125	0.24 ppb #	95
17) 75-15-0!Carbon disulfide	3.288	76	4235	2.13 ppb #	87
18) 1634-04-4!MTBE	0.000		0	N.D.	
19) 156-60-5!trans[E]-1,2-...	0.000		0	N.D.	
20) 75-34-3!1,1-Dichloroet...	0.000		0	N.D.	
21) 108-05-4!Vinyl acetate	3.964	43	3630	0.33 ppb #	75
22) 78-93-3!2-Butanone (MEK)	0.000		0	N.D.	
23) 156-59-2!cis[Z]-1,2dic...	0.000		0	N.D.	
24) 594-20-7!2,2-Dichlorop...	0.000		0	N.D.	
25) 74-97-5!Bromochloromet...	0.000		0	N.D.	
26) 67-66-3!Chloroform	0.000		0	N.D.	
27) 71-55-6!1,1,1-Trichlor...	0.000		0	N.D.	
29) 107-06-2!1,2-Dichloroe...	5.345	62	861	1.73 ppb #	89
30) 563-58-6!1,1-Dichlorop...	5.363	75	658	2.57 ppb #	66
31) 56-23-5!Carbon tetrach...	0.000		0	N.D.	
32) 71-43-2!Benzene	5.503	78	14296	0.60 ppb #	95
34) 79-01-6!Trichloroethylene	6.184	130	494	0.08 ppb #	45
35) 78-87-5!1,2-Dichloropr...	0.000		0	N.D.	
36) 74-95-3!Dibromomethane	0.000		0	N.D.	
37) 123-91-1!1,4 Dioxane	0.000		0	N.D.	
38) 75-27-4!Bromodichlorom...	0.000		0	N.D.	
39) 110-75-8!2-Chloroethyl...	0.000		0	N.D.	
40) 108-10-1!Methyl isobut...	0.000		0	N.D.	

41)	10061-01-5!cis[Z]-1,3-...	6.933	75	184	2.16 ppb	#	48
43)	108-88-3!Toluene	7.383	91	16170	0.69 ppb		95
44)	10061-02-6!trans[E]-1,...	7.383	75	729	N.D.		
45)	79-00-5!1,1,2-Trichlor...	0.000		0	N.D.		
46)	591-78-6!2-Hexanone	0.000		0	N.D.		
47)	142-28-9!1,3-Dichlorop...	0.000		0	N.D.		
48)	124-48-1!Dibromochloro...	7.985	129	185	N.D.		
49)	127-18-4!Tetrachloroet...	8.094	166	777	2.66 ppb	#	69
50)	106-93-4!1,2-Dibromoet...	8.198	107	200	N.D.		
52)	108-90-7!Chlorobenzene	8.739	112	2287	2.18 ppb	#	1
53)	630-20-6!1,1,1,2-Tetra...	0.000		0	N.D.		
54)	100-41-4!Ethylbenzene	8.885	91	5253	0.20 ppb		89
55)	1330-20-7!p&m-Xylene	9.001	91	15313	0.70 ppb		97
56)	100-42-5!Styrene	9.354	104	3058	0.16 ppb	#	67
57)	95-47-6!o-Xylene	9.384	91	6345	0.28 ppb	#	88
58)	75-25-2!Bromoform	0.000		0	N.D.		
59)	79-34-5!1,1,2,2-Tetrac...	9.701	83	386	2.24 ppb	#	26
60)	98-82-8!Isopropylbenzene	9.780	105	2672	0.10 ppb	#	65
61)	96-18-4!1,2,3-Trichlor...	0.000		0	N.D.		
63)	108-86-1!Bromobenzene	10.041	77	1974	0.18 ppb	#	87
64)	103-65-1!n-Propylbenzene	10.187	91	5719	0.18 ppb	#	90
65)	95-49-8!2-Chlorotoluene	10.260	91	4787	0.26 ppb		91
66)	622-96-8!p-Ethyltoluene	10.309	105	12790	1.69 ppb	#	69
67)	106-43-4!4-Chlorotoluene	10.327	91	6798	0.35 ppb		93
68)	108-67-8!1,3,5-Trimeth...	10.370	105	5617	0.24 ppb	#	88
69)	98-06-6!tert-Butylbenzene	0.000		0	N.D.		
70)	95-63-6!1,2,4-Trimethy...	10.735	105	12329	0.48 ppb	#	98
71)	135-98-8!sec-Butylbenzene	10.935	105	4556	0.17 ppb	#	89
74)	541-73-1!1,3-Dichlorob...	11.015	146	5417	0.40 ppb		95
75)	99-87-6!p-Isopropyltol...	11.075	119	6935	0.31 ppb	#	62
76)	106-46-7!1,4-Dichlorob...	11.106	146	5905	0.45 ppb	#	72
77)	95-50-1!1,2-Dichlorobe...	11.422	146	4245	0.31 ppb		97
78)	105-05-5!1,4-Diethylbe...	11.471	119	8117	0.70 ppb	#	73
79)	104-51-8!n-Butylbenzene	11.477	91	9519	0.47 ppb	#	79
80)	96-12-8!1,2-dibromo-3-...	0.000		0	N.D.		
81)	95-93-2!1,2,4,5-Tetram...	12.243	119	10228	0.49 ppb	#	89
82)	120-82-1!1,2,4-Trichlo...	13.144	180	7570	1.00 ppb		97
83)	91-20-3!Naphthalene	13.290	128	41429	2.07 ppb		99
84)	87-68-3!Hexachlorobuta...	13.424	225	2067	0.71 ppb	#	89
85)	87-61-6!1,2,3-Trichlor...	13.576	180	6864	1.01 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

20231229.M Fri Jan 12 15:14:52 2024 CHEM05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10 2023\1010\
Data File : 3100519-05.D
Acq On : 10 Oct 2023 4:21 pm
Operator : JN
Sample : 3100519-05
Misc : CHEM05
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 11 10:15:16 2023
Quant Method : C:\msdchem\1\methods\20231002.M
Quant Title : EPA 8260 Multi point calibration
QLast Update : Tue Oct 10 13:23:25 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluourobenzene	5.065	168	980194	50.00	ppb	#	0.00
33) 1,4-Difluourobenzene	5.813	114	1588850	50.00	ppb	#	0.00
51) Chlorobenzene-d5	8.703	117	1624054	50.00	ppb	#	0.00
72) 1,4-Dichlorobenzene-d4	11.081	152	909651	50.00	ppb		0.00
System Monitoring Compounds							
28) Dibromofluouromethane	4.840	113	504010	47.04	ppb		0.00
42) 1,2-Dichloroethane-d4	5.266	65	518397	49.48	ppb		0.00
62) Toluene-d8	7.310	98	1839353	49.64	ppb		0.00
73) 4-Bromofluourobenzene	9.889	174	749333	53.53	ppb		0.00
Target Compounds							Qvalue
2) 75-71-8!Dichlorodifluo...	0.000		0	N.D.			
3) 75-45-6!Chlorodifluoro...	0.000		0	N.D.			
4) 74-87-3!Chloromethane	1.737	50	634	0.29	ppb	#	53
5) 75-01-4!Chloroethene (...	0.000		0	N.D.			
6) 74-83-9!Bromomethane	2.096	94	2077	Below Cal		#	80
7) 75-00-3!Chloroethane	0.000		0	N.D.			
8) 75-69-4!Trichloromonof...	0.000		0	N.D.			
9) 107-02-8!Acrolein	0.000		0	N.D.			
10) 67-64-1!Acetone	2.625	43	7249	0.73	ppb	#	82
11) 75-35-4!1,1-Dichloroet...	0.000		0	N.D.			
12) 75-65-0!Tert-Butyl Alc...	0.000		0	N.D.			
13) 76-13-1!Freon 113	2.936	101	454	2.06	ppb	#	18
14) 70-20-9!Methyl Acetate	3.106	43	3661	0.50	ppb	#	56
15) 107-13-1!Acrylonitrile	0.000		0	N.D.			
16) 75-09-2!Methylene chlo...	3.209	49	1694	0.19	ppb	#	74
17) 75-15-0!Carbon disulfide	3.288	76	3454	2.06	ppb	#	89
18) 1634-04-4!MTBE	0.000		0	N.D.			
19) 156-60-5!trans[E]-1,2-...	0.000		0	N.D.			
20) 75-34-3!1,1-Dichloroet...	0.000		0	N.D.			
21) 108-05-4!Vinyl acetate	3.976	43	257	N.D.			
22) 78-93-3!2-Butanone (MEK)	0.000		0	N.D.			
23) 156-59-2!cis[Z]-1,2dic...	0.000		0	N.D.			
24) 594-20-7!2,2-Dichlorop...	0.000		0	N.D.			
25) 74-97-5!Bromochloromet...	0.000		0	N.D.			
26) 67-66-3!Chloroform	4.694	83	3944	2.15	ppb	#	86
27) 71-55-6!1,1,1-Trichlor...	0.000		0	N.D.			
29) 107-06-2!1,2-Dichloroe...	5.351	62	1187	1.76	ppb	#	77
30) 563-58-6!1,1-Dichlorop...	5.369	75	446	2.55	ppb	#	61
31) 56-23-5!Carbon tetrach...	0.000		0	N.D.			
32) 71-43-2!Benzene	5.503	78	12956	0.55	ppb	#	95
34) 79-01-6!Trichloroethylene	0.000		0	N.D.			
35) 78-87-5!1,2-Dichloropr...	0.000		0	N.D.			
36) 74-95-3!Dibromomethane	0.000		0	N.D.			
37) 123-91-1!1,4 Dioxane	0.000		0	N.D.			
38) 75-27-4!Bromodichlorom...	0.000		0	N.D.			
39) 110-75-8!2-Chloroethyl...	0.000		0	N.D.			
40) 108-10-1!Methyl isobut...	0.000		0	N.D.			

41)	10061-01-5!cis[Z]-1,3-...	0.000		0	N.D.		
43)	108-88-3!Toluene	7.383	91	15180	0.66 ppb		93
44)	10061-02-6!trans[E]-1,...	7.389	75	376	N.D.		
45)	79-00-5!1,1,2-Trichlor...	0.000		0	N.D.		
46)	591-78-6!2-Hexanone	0.000		0	N.D.		
47)	142-28-9!1,3-Dichlorop...	0.000		0	N.D.		
48)	124-48-1!Dibromochloro...	8.094	129	622	N.D.		
49)	127-18-4!Tetrachloroet...	8.088	166	911	2.68 ppb	#	72
50)	106-93-4!1,2-Dibromoet...	0.000		0	N.D.		
52)	108-90-7!Chlorobenzene	8.739	112	2004	2.17 ppb	#	1
53)	630-20-6!1,1,1,2-Tetra...	0.000		0	N.D.		
54)	100-41-4!Ethylbenzene	8.891	91	4757	0.18 ppb	#	84
55)	1330-20-7!p&m-Xylene	8.995	91	13861	0.65 ppb		94
56)	100-42-5!Styrene	9.360	104	2218	0.12 ppb	#	71
57)	95-47-6!o-Xylene	9.378	91	5046	0.23 ppb	#	92
58)	75-25-2!Bromoform	0.000		0	N.D.		
59)	79-34-5!1,1,2,2-Tetrac...	0.000		0	N.D.		
60)	98-82-8!Isopropylbenzene	9.780	105	2529	0.10 ppb	#	66
61)	96-18-4!1,2,3-Trichlor...	9.889	110	183	N.D.		
63)	108-86-1!Bromobenzene	10.029	77	1243	0.11 ppb	#	67
64)	103-65-1!n-Propylbenzene	10.187	91	4579	0.15 ppb	#	89
65)	95-49-8!2-Chlorotoluene	10.266	91	3479	0.19 ppb		92
66)	622-96-8!p-Ethyltoluene	10.303	105	6250	1.46 ppb	#	58
67)	106-43-4!4-Chlorotoluene	10.327	91	5102	0.27 ppb	#	86
68)	108-67-8!1,3,5-Trimeth...	10.364	105	4543	0.20 ppb	#	89
69)	98-06-6!tert-Butylbenzene	0.000		0	N.D.		
70)	95-63-6!1,2,4-Trimethy...	10.729	105	10854	0.43 ppb	#	98
71)	135-98-8!sec-Butylbenzene	10.942	105	3597	0.14 ppb	#	69
74)	541-73-1!1,3-Dichlorob...	11.015	146	3983	0.31 ppb		93
75)	99-87-6!p-Isopropyltol...	11.075	119	5528	0.26 ppb	#	56
76)	106-46-7!1,4-Dichlorob...	11.112	146	4688	0.37 ppb	#	66
77)	95-50-1!1,2-Dichlorobe...	11.422	146	2962	0.22 ppb		94
78)	105-05-5!1,4-Diethylbe...	11.471	119	7860	0.70 ppb	#	63
79)	104-51-8!n-Butylbenzene	11.477	91	8061	0.41 ppb	#	77
80)	96-12-8!1,2-dibromo-3-...	0.000		0	N.D.		
81)	95-93-2!1,2,4,5-Tetram...	12.243	119	8008	0.40 ppb	#	96
82)	120-82-1!1,2,4-Trichlo...	13.144	180	5155	0.71 ppb		92
83)	91-20-3!Naphthalene	13.290	128	28229	1.47 ppb		98
84)	87-68-3!Hexachlorobuta...	13.424	225	1566	0.56 ppb		90
85)	87-61-6!1,2,3-Trichlor...	13.576	180	4554	0.70 ppb	#	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

20231229.M Fri Jan 12 15:15:03 2024 CHEM05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10 2023\1010\
Data File : 3100519-06.D
Acq On : 10 Oct 2023 4:45 pm
Operator : JN
Sample : 3100519-06
Misc : CHEM05
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 11 10:15:33 2023
Quant Method : C:\msdchem\1\methods\20231002.M
Quant Title : EPA 8260 Multi point calibration
QLast Update : Tue Oct 10 13:23:25 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluourobenzene	5.065	168	969773	50.00	ppb	#	0.00
33) 1,4-Difluourobenzene	5.813	114	1584759	50.00	ppb	#	0.00
51) Chlorobenzene-d5	8.703	117	1604280	50.00	ppb	#	0.00
72) 1,4-Dichlorobenzene-d4	11.082	152	908134	50.00	ppb		0.00
System Monitoring Compounds							
28) Dibromofluouromethane	4.840	113	501662	47.32	ppb		0.00
42) 1,2-Dichloroethane-d4	5.266	65	513297	49.12	ppb		0.00
62) Toluene-d8	7.310	98	1816682	49.63	ppb		0.00
73) 4-Bromofluourobenzene	9.889	174	747329	53.48	ppb		0.00
Target Compounds							Qvalue
2) 75-71-8!Dichlorodifluo...	0.000		0	N.D.			
3) 75-45-6!Chlorodifluoro...	0.000		0	N.D.			
4) 74-87-3!Chloromethane	0.000		0	N.D.			
5) 75-01-4!Chloroethene (...	0.000		0	N.D.			
6) 74-83-9!Bromomethane	2.090	94	2373	Below Cal		#	72
7) 75-00-3!Chloroethane	0.000		0	N.D.			
8) 75-69-4!Trichloromonof...	0.000		0	N.D.			
9) 107-02-8!Acrolein	0.000		0	N.D.			
10) 67-64-1!Acetone	2.625	43	7424	0.83	ppb	#	88
11) 75-35-4!1,1-Dichloroet...	0.000		0	N.D.			
12) 75-65-0!Tert-Butyl Alc...	0.000		0	N.D.			
13) 76-13-1!Freon 113	0.000		0	N.D.			
14) 70-20-9!Methyl Acetate	3.112	43	4950	0.68	ppb	#	56
15) 107-13-1!Acrylonitrile	0.000		0	N.D.			
16) 75-09-2!Methylene chlo...	3.203	49	1685	0.19	ppb	#	69
17) 75-15-0!Carbon disulfide	3.289	76	2568	1.98	ppb	#	54
18) 1634-04-4!MTBE	0.000		0	N.D.			
19) 156-60-5!trans[E]-1,2-...	0.000		0	N.D.			
20) 75-34-3!1,1-Dichloroet...	0.000		0	N.D.			
21) 108-05-4!Vinyl acetate	3.970	43	518	N.D.			
22) 78-93-3!2-Butanone (MEK)	0.000		0	N.D.			
23) 156-59-2!cis[Z]-1,2dic...	0.000		0	N.D.			
24) 594-20-7!2,2-Dichlorop...	0.000		0	N.D.			
25) 74-97-5!Bromochloromet...	0.000		0	N.D.			
26) 67-66-3!Chloroform	0.000		0	N.D.			
27) 71-55-6!1,1,1-Trichlor...	0.000		0	N.D.			
29) 107-06-2!1,2-Dichloroe...	5.351	62	1221	1.77	ppb	#	73
30) 563-58-6!1,1-Dichlorop...	0.000		0	N.D.			
31) 56-23-5!Carbon tetrach...	0.000		0	N.D.			
32) 71-43-2!Benzene	5.503	78	11895	0.51	ppb	#	96
34) 79-01-6!Trichloroethylene	0.000		0	N.D.			
35) 78-87-5!1,2-Dichloropr...	0.000		0	N.D.			
36) 74-95-3!Dibromomethane	0.000		0	N.D.			
37) 123-91-1!1,4 Dioxane	0.000		0	N.D.			
38) 75-27-4!Bromodichlorom...	0.000		0	N.D.			
39) 110-75-8!2-Chloroethyl...	0.000		0	N.D.			
40) 108-10-1!Methyl isobut...	0.000		0	N.D.			

41)	10061-01-5!cis[Z]-1,3-...	6.939	75	191	2.16 ppb	#	48
43)	108-88-3!Toluene	7.383	91	15237	0.67 ppb		93
44)	10061-02-6!trans[E]-1,...	7.389	75	188	N.D.		
45)	79-00-5!1,1,2-Trichlor...	0.000		0	N.D.		
46)	591-78-6!2-Hexanone	0.000		0	N.D.		
47)	142-28-9!1,3-Dichlorop...	0.000		0	N.D.		
48)	124-48-1!Dibromochloro...	8.095	129	199	N.D.		
49)	127-18-4!Tetrachloroet...	8.088	166	886	2.68 ppb	#	42
50)	106-93-4!1,2-Dibromoet...	0.000		0	N.D.		
52)	108-90-7!Chlorobenzene	8.739	112	1374	2.14 ppb	#	1
53)	630-20-6!1,1,1,2-Tetra...	0.000		0	N.D.		
54)	100-41-4!Ethylbenzene	8.885	91	4136	0.16 ppb		91
55)	1330-20-7!p&m-Xylene	8.995	91	12047	0.57 ppb		98
56)	100-42-5!Styrene	9.354	104	1913	0.10 ppb	#	62
57)	95-47-6!o-Xylene	9.384	91	4685	0.22 ppb	#	85
58)	75-25-2!Bromoform	0.000		0	N.D.		
59)	79-34-5!1,1,2,2-Tetrac...	0.000		0	N.D.		
60)	98-82-8!Isopropylbenzene	9.780	105	1806	N.D.		
61)	96-18-4!1,2,3-Trichlor...	0.000		0	N.D.		
63)	108-86-1!Bromobenzene	10.041	77	1103	0.10 ppb	#	77
64)	103-65-1!n-Propylbenzene	10.187	91	3718	0.12 ppb	#	74
65)	95-49-8!2-Chlorotoluene	10.260	91	2925	0.16 ppb	#	74
66)	622-96-8!p-Ethyltoluene	10.303	105	6140	1.46 ppb	#	62
67)	106-43-4!4-Chlorotoluene	10.327	91	4234	0.23 ppb	#	78
68)	108-67-8!1,3,5-Trimeth...	10.370	105	4257	0.19 ppb	#	82
69)	98-06-6!tert-Butylbenzene	0.000		0	N.D.		
70)	95-63-6!1,2,4-Trimethy...	10.735	105	10035	0.40 ppb		94
71)	135-98-8!sec-Butylbenzene	10.936	105	3012	0.12 ppb	#	68
74)	541-73-1!1,3-Dichlorob...	11.015	146	3195	0.25 ppb	#	90
75)	99-87-6!p-Isopropyltol...	11.075	119	4892	0.23 ppb	#	55
76)	106-46-7!1,4-Dichlorob...	11.106	146	4049	0.32 ppb	#	1
77)	95-50-1!1,2-Dichlorobe...	11.422	146	2206	0.17 ppb		96
78)	105-05-5!1,4-Diethylbe...	11.471	119	5982	0.53 ppb	#	69
79)	104-51-8!n-Butylbenzene	11.477	91	6585	0.34 ppb	#	78
80)	96-12-8!1,2-dibromo-3-...	0.000		0	N.D.		
81)	95-93-2!1,2,4,5-Tetram...	12.244	119	7154	0.36 ppb	#	90
82)	120-82-1!1,2,4-Trichlo...	13.144	180	4325	0.59 ppb		97
83)	91-20-3!Naphthalene	13.290	128	22747	1.18 ppb		97
84)	87-68-3!Hexachlorobuta...	13.430	225	1603	0.57 ppb	#	71
85)	87-61-6!1,2,3-Trichlor...	13.576	180	3378	0.52 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

20231229.M Fri Jan 12 15:15:13 2024 CHEM05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2023\10 2023\1010\
Data File : 3100519-07.D
Acq On : 10 Oct 2023 5:10 pm
Operator : JN
Sample : 3100519-07
Misc : CHEM05
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 11 10:15:50 2023
Quant Method : C:\msdchem\1\methods\20231002.M
Quant Title : EPA 8260 Multi point calibration
QLast Update : Tue Oct 10 13:23:25 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Pentafluourobenzene	5.065	168	983931	50.00 ppb	#	0.00
33) 1,4-Difluourobenzene	5.813	114	1601117	50.00 ppb	#	0.00
51) Chlorobenzene-d5	8.703	117	1637292	50.00 ppb	#	0.00
72) 1,4-Dichlorobenzene-d4	11.082	152	913322	50.00 ppb		0.00
System Monitoring Compounds						
28) Dibromofluouromethane	4.840	113	509805	47.40 ppb		0.00
42) 1,2-Dichloroethane-d4	5.266	65	522517	49.49 ppb		0.00
62) Toluene-d8	7.310	98	1852672	49.59 ppb		0.00
73) 4-Bromofluourobenzene	9.889	174	749099	53.30 ppb		0.00
Target Compounds						Qvalue
2) 75-71-8!Dichlorodifluo...	0.000		0	N.D.		
3) 75-45-6!Chlorodifluoro...	0.000		0	N.D.		
4) 74-87-3!Chloromethane	0.000		0	N.D.		
5) 75-01-4!Chloroethene (...	0.000		0	N.D.		
6) 74-83-9!Bromomethane	2.090	94	1710	Below Cal	#	78
7) 75-00-3!Chloroethane	0.000		0	N.D.		
8) 75-69-4!Trichloromonof...	0.000		0	N.D.		
9) 107-02-8!Acrolein	0.000		0	N.D.		
10) 67-64-1!Acetone	2.625	43	99324	35.13 ppb		92
11) 75-35-4!1,1-Dichloroet...	0.000		0	N.D.		
12) 75-65-0!Tert-Butyl Alc...	0.000		0	N.D.		
13) 76-13-1!Freon 113	0.000		0	N.D.		
14) 70-20-9!Methyl Acetate	3.106	43	4072	0.55 ppb	#	56
15) 107-13-1!Acrylonitrile	0.000		0	N.D.		
16) 75-09-2!Methylene chlo...	3.209	49	6055	0.72 ppb	#	80
17) 75-15-0!Carbon disulfide	3.295	76	2303	1.95 ppb	#	29
18) 1634-04-4!MTBE	0.000		0	N.D.		
19) 156-60-5!trans[E]-1,2-...	0.000		0	N.D.		
20) 75-34-3!1,1-Dichloroet...	0.000		0	N.D.		
21) 108-05-4!Vinyl acetate	3.964	43	382	N.D.		
22) 78-93-3!2-Butanone (MEK)	0.000		0	N.D.		
23) 156-59-2!cis[Z]-1,2dic...	0.000		0	N.D.		
24) 594-20-7!2,2-Dichlorop...	0.000		0	N.D.		
25) 74-97-5!Bromochloromet...	0.000		0	N.D.		
26) 67-66-3!Chloroform	4.694	83	3625	2.12 ppb	#	89
27) 71-55-6!1,1,1-Trichlor...	0.000		0	N.D.		
29) 107-06-2!1,2-Dichloroe...	5.351	62	2378	1.89 ppb	#	85
30) 563-58-6!1,1-Dichlorop...	0.000		0	N.D.		
31) 56-23-5!Carbon tetrach...	0.000		0	N.D.		
32) 71-43-2!Benzene	5.503	78	12052	0.51 ppb	#	93
34) 79-01-6!Trichloroethylene	0.000		0	N.D.		
35) 78-87-5!1,2-Dichloropr...	0.000		0	N.D.		
36) 74-95-3!Dibromomethane	0.000		0	N.D.		
37) 123-91-1!1,4 Dioxane	0.000		0	N.D.		
38) 75-27-4!Bromodichlorom...	0.000		0	N.D.		
39) 110-75-8!2-Chloroethyl...	0.000		0	N.D.		
40) 108-10-1!Methyl isobut...	0.000		0	N.D.		

41)	10061-01-5!cis[Z]-1,3-...	0.000		0	N.D.			
43)	108-88-3!Toluene	7.383	91	13421	0.58	ppb		96
44)	10061-02-6!trans[E]-1,...	0.000		0	N.D.			
45)	79-00-5!1,1,2-Trichlor...	0.000		0	N.D.			
46)	591-78-6!2-Hexanone	0.000		0	N.D.			
47)	142-28-9!1,3-Dichlorop...	0.000		0	N.D.			
48)	124-48-1!Dibromochloro...	0.000		0	N.D.			
49)	127-18-4!Tetrachloroet...	8.101	166	592	2.64	ppb	#	28
50)	106-93-4!1,2-Dibromoet...	0.000		0	N.D.			
52)	108-90-7!Chlorobenzene	8.733	112	1290	2.13	ppb	#	1
53)	630-20-6!1,1,1,2-Tetra...	0.000		0	N.D.			
54)	100-41-4!Ethylbenzene	8.885	91	3418	0.13	ppb	#	73
55)	1330-20-7!p&m-Xylene	8.995	91	11360	0.53	ppb		99
56)	100-42-5!Styrene	9.360	104	1393	N.D.			
57)	95-47-6!o-Xylene	9.384	91	4662	0.21	ppb	#	78
58)	75-25-2!Bromoform	0.000		0	N.D.			
59)	79-34-5!1,1,2,2-Tetrac...	0.000		0	N.D.			
60)	98-82-8!Isopropylbenzene	9.774	105	1618	N.D.			
61)	96-18-4!1,2,3-Trichlor...	0.000		0	N.D.			
63)	108-86-1!Bromobenzene	10.035	77	811	N.D.			
64)	103-65-1!n-Propylbenzene	10.181	91	2989	0.10	ppb	#	67
65)	95-49-8!2-Chlorotoluene	10.260	91	2273	0.12	ppb		89
66)	622-96-8!p-Ethyltoluene	10.303	105	4709	1.40	ppb	#	56
67)	106-43-4!4-Chlorotoluene	10.327	91	3533	0.18	ppb	#	84
68)	108-67-8!1,3,5-Trimeth...	10.364	105	3533	0.15	ppb	#	92
69)	98-06-6!tert-Butylbenzene	0.000		0	N.D.			
70)	95-63-6!1,2,4-Trimethy...	10.735	105	8490	0.34	ppb		99
71)	135-98-8!sec-Butylbenzene	10.935	105	2035	N.D.			
74)	541-73-1!1,3-Dichlorob...	11.015	146	2892	0.22	ppb	#	91
75)	99-87-6!p-Isopropyltol...	11.075	119	3664	0.17	ppb	#	38
76)	106-46-7!1,4-Dichlorob...	11.112	146	2954	0.23	ppb	#	1
77)	95-50-1!1,2-Dichlorobe...	11.422	146	1743	0.13	ppb	#	86
78)	105-05-5!1,4-Diethylbe...	11.471	119	5322	0.47	ppb	#	65
79)	104-51-8!n-Butylbenzene	11.477	91	5744	0.29	ppb	#	78
80)	96-12-8!1,2-dibromo-3-...	0.000		0	N.D.			
81)	95-93-2!1,2,4,5-Tetram...	12.243	119	5650	0.28	ppb	#	93
82)	120-82-1!1,2,4-Trichlo...	13.144	180	3411	0.47	ppb	#	96
83)	91-20-3!Naphthalene	13.290	128	18455	0.96	ppb	#	94
84)	87-68-3!Hexachlorobuta...	13.424	225	1016	0.36	ppb	#	68
85)	87-61-6!1,2,3-Trichlor...	13.576	180	2819	0.43	ppb	#	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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