



ANALYTICAL REPORT

Lab Number:	L2225875
Client:	Solitude Lake Management, LLC 590 Lake Street Shrewsbury, MA 01545
ATTN:	Amanda Mahaney
Phone:	(508) 865-1000
Project Name:	FRAMINGHAM PONDS
Project Number:	Not Specified
Report Date:	05/31/22

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



Project Name: FRAMINGHAM PONDS
Project Number: Not Specified

Lab Number: L2225875
Report Date: 05/31/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2225875-01	NORTON	WATER	FRAMNIGHAM, MA	05/16/22 14:15	05/16/22
L2225875-02	BIG FARM	WATER	FRAMNIGHAM, MA	05/16/22 12:15	05/16/22
L2225875-03	WASHAKUM SURFACE	WATER	FRAMNIGHAM, MA	05/16/22 14:00	05/16/22
L2225875-04	WASHAKUM BOTTOM	WATER	FRAMNIGHAM, MA	05/16/22 11:45	05/16/22
L2225875-05	LITTLE FARM	WATER	FRAMNIGHAM, MA	05/16/22 12:45	05/16/22

Project Name: FRAMINGHAM PONDS
Project Number: Not Specified

Lab Number: L2225875
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Case Narrative

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

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

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

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

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

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

Project Name: FRAMINGHAM PONDS
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Case Narrative (continued)

Sample Receipt

The samples were received at the laboratory above the required temperature range. The samples were delivered directly from the sampling site but were not on ice.

Color, Apparent

L2225875-05: The sample has an elevated detection limit due to the dilution required by the sample matrix.

Alkalinity, Total

WG1642063: A Matrix Spike and Laboratory Duplicate were not performed due to a laboratory oversight.

Nitrogen, Ammonia

The WG1643913-3 Laboratory Duplicate RPD for nitrogen, ammonia (21%), performed on L2225875-01, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

Nitrogen, Total Kjeldahl

The WG1644217-3 Laboratory Duplicate RPD for nitrogen, total kjeldahl (78%), performed on L2225875-02, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

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

Authorized Signature:

 Caitlin Walukevich

Title: Technical Director/Representative

Date: 05/31/22

INORGANICS & MISCELLANEOUS

Project Name: FRAMINGHAM PONDS
Project Number: Not Specified

Lab Number: L2225875
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2225875-01
Client ID: NORTON
Sample Location: FRAMNIGHAM, MA

Date Collected: 05/16/22 14:15
Date Received: 05/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	6.9		NTU	0.20	--	1	-	05/17/22 13:15	121,2130B	KP
Color, True	39		A.P.C.U.	5.0	--	1	-	05/18/22 08:56	121,2120B	KP
Color, Apparent	65		A.P.C.U.	25	--	5	-	05/18/22 08:56	121,2120B	KP
Alkalinity, Total	30.0		mg CaCO3/L	2.00	NA	1	-	05/24/22 07:45	121,2320B	MT
pH (H)	7.8		SU	-	NA	1	-	05/17/22 17:46	1,9040C	AS
Nitrogen, Ammonia	0.160		mg/l	0.075	--	1	05/27/22 18:00	05/31/22 14:17	121,4500NH3-BH	KP
Nitrogen, Nitrite	ND		mg/l	0.050	--	1	-	05/17/22 04:38	44,353.2	KA
Nitrogen, Nitrate	ND		mg/l	0.10	--	1	-	05/17/22 04:38	44,353.2	KA
Nitrogen, Total Kjeldahl	0.447		mg/l	0.300	--	1	05/29/22 10:10	05/31/22 13:11	121,4500NH3-H	KP
Phosphorus, Total	0.299		mg/l	0.010	--	1	05/27/22 11:30	05/27/22 14:34	121,4500P-E	SD
Phosphorus, Soluble	0.032		mg/l	0.010	--	1	05/27/22 11:30	05/27/22 14:48	121,4500P-E	SD



Project Name: FRAMINGHAM PONDS
Project Number: Not Specified

Lab Number: L2225875
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2225875-02
Client ID: BIG FARM
Sample Location: FRAMNIGHAM, MA

Date Collected: 05/16/22 12:15
Date Received: 05/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	1.0		NTU	0.20	--	1	-	05/17/22 13:15	121,2130B	KP
Color, True	7.0		A.P.C.U.	5.0	--	1	-	05/18/22 08:56	121,2120B	KP
Color, Apparent	11		A.P.C.U.	5.0	--	1	-	05/18/22 08:56	121,2120B	KP
Alkalinity, Total	45.3		mg CaCO3/L	2.00	NA	1	-	05/24/22 07:45	121,2320B	MT
pH (H)	8.3		SU	-	NA	1	-	05/17/22 17:46	1,9040C	AS
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	05/27/22 18:00	05/31/22 14:02	121,4500NH3-BH	KP
Nitrogen, Nitrite	ND		mg/l	0.050	--	1	-	05/17/22 04:49	44,353.2	KA
Nitrogen, Nitrate	ND		mg/l	0.10	--	1	-	05/17/22 04:49	44,353.2	KA
Nitrogen, Total Kjeldahl	0.488		mg/l	0.300	--	1	05/29/22 10:10	05/31/22 13:12	121,4500NH3-H	KP
Phosphorus, Total	0.012		mg/l	0.010	--	1	05/27/22 11:30	05/27/22 14:36	121,4500P-E	SD
Phosphorus, Soluble	ND		mg/l	0.010	--	1	05/27/22 11:30	05/27/22 14:49	121,4500P-E	SD



Project Name: FRAMINGHAM PONDS
Project Number: Not Specified

Lab Number: L2225875
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2225875-03
Client ID: WASHAKUM SURFACE
Sample Location: FRAMNIGHAM, MA

Date Collected: 05/16/22 14:00
Date Received: 05/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	0.95		NTU	0.20	--	1	-	05/17/22 13:15	121,2130B	KP
Color, True	22		A.P.C.U.	5.0	--	1	-	05/18/22 08:56	121,2120B	KP
Color, Apparent	27		A.P.C.U.	5.0	--	1	-	05/18/22 08:56	121,2120B	KP
Alkalinity, Total	28.6		mg CaCO3/L	2.00	NA	1	-	05/24/22 07:45	121,2320B	MT
pH (H)	8.0		SU	-	NA	1	-	05/17/22 17:46	1,9040C	AS
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	05/27/22 18:00	05/31/22 14:03	121,4500NH3-BH	KP
Nitrogen, Nitrite	ND		mg/l	0.050	--	1	-	05/17/22 04:50	44,353.2	KA
Nitrogen, Nitrate	ND		mg/l	0.10	--	1	-	05/17/22 04:50	44,353.2	KA
Nitrogen, Total Kjeldahl	3.09		mg/l	0.300	--	1	05/29/22 10:10	05/31/22 13:18	121,4500NH3-H	KP
Phosphorus, Total	0.016		mg/l	0.010	--	1	05/27/22 11:30	05/27/22 14:37	121,4500P-E	SD
Phosphorus, Soluble	ND		mg/l	0.010	--	1	05/27/22 11:30	05/27/22 14:51	121,4500P-E	SD



Project Name: FRAMINGHAM PONDS
Project Number: Not Specified

Lab Number: L2225875
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SAMPLE RESULTS

Lab ID: L2225875-04
Client ID: WASHAKUM BOTTOM
Sample Location: FRAMNIGHAM, MA

Date Collected: 05/16/22 11:45
Date Received: 05/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	3.4		NTU	0.20	--	1	-	05/17/22 13:15	121,2130B	KP
pH (H)	7.6		SU	-	NA	1	-	05/17/22 17:46	1,9040C	AS
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	05/27/22 18:00	05/31/22 14:04	121,4500NH3-BH	KP
Nitrogen, Nitrite	ND		mg/l	0.050	--	1	-	05/17/22 04:51	44,353.2	KA
Nitrogen, Nitrate	ND		mg/l	0.10	--	1	-	05/17/22 04:51	44,353.2	KA
Nitrogen, Total Kjeldahl	0.730		mg/l	0.300	--	1	05/29/22 10:10	05/31/22 13:19	121,4500NH3-H	KP
Phosphorus, Total	0.021		mg/l	0.010	--	1	05/27/22 11:30	05/27/22 14:38	121,4500P-E	SD
Phosphorus, Soluble	ND		mg/l	0.010	--	1	05/27/22 11:30	05/27/22 14:52	121,4500P-E	SD



Project Name: FRAMINGHAM PONDS
Project Number: Not Specified

Lab Number: L2225875
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2225875-05
Client ID: LITTLE FARM
Sample Location: FRAMNIGHAM, MA

Date Collected: 05/16/22 12:45
Date Received: 05/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	20		NTU	0.20	--	1	-	05/17/22 13:15	121,2130B	KP
Color, True	55		A.P.C.U.	25	--	5	-	05/18/22 08:56	121,2120B	KP
Color, Apparent	ND		A.P.C.U.	100	--	20	-	05/18/22 08:56	121,2120B	KP
Alkalinity, Total	59.1		mg CaCO3/L	2.00	NA	1	-	05/24/22 07:45	121,2320B	MT
pH (H)	7.0		SU	-	NA	1	-	05/17/22 17:46	1,9040C	AS
Nitrogen, Ammonia	0.082		mg/l	0.075	--	1	05/27/22 18:00	05/31/22 14:05	121,4500NH3-BH	KP
Nitrogen, Nitrite	ND		mg/l	0.050	--	1	-	05/17/22 04:53	44,353.2	KA
Nitrogen, Nitrate	ND		mg/l	0.10	--	1	-	05/17/22 04:53	44,353.2	KA
Nitrogen, Total Kjeldahl	8.18		mg/l	0.300	--	1	05/29/22 10:10	05/31/22 13:20	121,4500NH3-H	KP
Phosphorus, Total	1.22		mg/l	0.020	--	2	05/27/22 11:30	05/27/22 14:39	121,4500P-E	SD
Phosphorus, Soluble	0.083		mg/l	0.010	--	1	05/27/22 11:30	05/27/22 14:53	121,4500P-E	SD



Project Name: FRAMINGHAM PONDS
Project Number: Not Specified

Lab Number: L2225875
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Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1639126-1										
Turbidity	ND		NTU	0.20	--	1	-	05/17/22 13:15	121,2130B	KP
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1639138-1										
Nitrogen, Nitrite	ND		mg/l	0.050	--	1	-	05/17/22 04:28	44,353.2	KA
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1639139-1										
Nitrogen, Nitrate	ND		mg/l	0.10	--	1	-	05/17/22 04:31	44,353.2	KA
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1642054-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	05/24/22 07:45	121,2320B	MT
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1642063-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	05/24/22 07:45	121,2320B	MT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1643637-1										
Phosphorus, Total	ND		mg/l	0.010	--	1	05/27/22 11:30	05/27/22 14:22	121,4500P-E	SD
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1643810-1										
Phosphorus, Soluble	ND		mg/l	0.010	--	1	05/27/22 11:30	05/27/22 14:46	121,4500P-E	SD
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1643913-1										
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	05/27/22 18:00	05/31/22 13:45	121,4500NH3-BH	KP
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1644217-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	--	1	05/29/22 10:10	05/31/22 13:06	121,4500NH3-H	KP

Lab Control Sample Analysis

Batch Quality Control

Project Name: FRAMINGHAM PONDS
Project Number: Not Specified

Lab Number: L2225875
Report Date: 05/31/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1639126-2								
Turbidity	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1639138-2								
Nitrogen, Nitrite	96		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1639139-2								
Nitrogen, Nitrate	94		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1639592-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1642054-2								
Alkalinity, Total	106		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1642063-2								
Alkalinity, Total	104		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1643637-2								
Phosphorus, Total	100		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FRAMINGHAM PONDS

Project Number: Not Specified

Lab Number: L2225875

Report Date: 05/31/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1643810-2					
Phosphorus, Soluble	98	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1643913-2					
Nitrogen, Ammonia	84	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1644217-2					
Nitrogen, Total Kjeldahl	105	-	78-122	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: FRAMINGHAM PONDS

Lab Number: L2225875

Project Number: Not Specified

Report Date: 05/31/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1639138-4 QC Sample: L2225875-01 Client ID: NORTON												
Nitrogen, Nitrite	ND	4	4.5	112	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1639139-4 QC Sample: L2225875-01 Client ID: NORTON												
Nitrogen, Nitrate	ND	4	4.0	100	-	-	-	-	83-113	-	-	6
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1642054-4 QC Sample: L2225835-02 Client ID: MS Sample												
Alkalinity, Total	219	100	320	101	-	-	-	-	86-116	-	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1643637-4 QC Sample: L2224507-01 Client ID: MS Sample												
Phosphorus, Total	ND	0.5	0.502	100	-	-	-	-	75-125	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1643810-4 QC Sample: L2225875-02 Client ID: BIG FARM												
Phosphorus, Soluble	ND	0.5	0.495	99	-	-	-	-	75-125	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1643913-4 QC Sample: L2225875-01 Client ID: NORTON												
Nitrogen, Ammonia	0.160	4	3.62	86	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1644217-4 QC Sample: L2225875-02 Client ID: BIG FARM												
Nitrogen, Total Kjeldahl	0.488	8	8.29	98	-	-	-	-	77-111	-	-	24

Lab Duplicate Analysis

Batch Quality Control

Project Name: FRAMINGHAM PONDS

Project Number: Not Specified

Lab Number: L2225875

Report Date: 05/31/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1639126-3 QC Sample: L2225875-05 Client ID: LITTLE FARM						
Turbidity	20	20	NTU	0		13
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1639138-3 QC Sample: L2225875-01 Client ID: NORTON						
Nitrogen, Nitrite	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1639139-3 QC Sample: L2225875-01 Client ID: NORTON						
Nitrogen, Nitrate	ND	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1639592-2 QC Sample: L2225383-01 Client ID: DUP Sample						
pH	12.1	12.1	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01-03,05 QC Batch ID: WG1639860-1 QC Sample: L2225875-02 Client ID: BIG FARM						
Color, Apparent	11	11	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 01-03,05 QC Batch ID: WG1639862-1 QC Sample: L2225875-02 Client ID: BIG FARM						
Color, True	7.0	7.0	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1642054-3 QC Sample: L2225835-02 Client ID: DUP Sample						
Alkalinity, Total	219	220	mg CaCO ₃ /L	0		10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1643637-3 QC Sample: L2224507-01 Client ID: DUP Sample						
Phosphorus, Total	ND	0.010	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1643810-3 QC Sample: L2225875-01 Client ID: NORTON						
Phosphorus, Soluble	0.032	0.032	mg/l	0		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: FRAMINGHAM PONDS

Project Number: Not Specified

Lab Number: L2225875

Report Date: 05/31/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1643913-3 QC Sample: L2225875-01 Client ID: NORTON					
Nitrogen, Ammonia	0.160	0.198	mg/l	21	Q 20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1644217-3 QC Sample: L2225875-02 Client ID: BIG FARM					
Nitrogen, Total Kjeldahl	0.488	1.11	mg/l	78	Q 24

Project Name: FRAMINGHAM PONDS**Lab Number:** L2225875**Project Number:** Not Specified**Report Date:** 05/31/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2225875-01A	Plastic 250ml unpreserved/No Headspace	A	NA		21.7	Y	Absent		ALK-T-2320(14)
L2225875-01B	Plastic 250ml unpreserved	A	7	7	21.7	Y	Absent		TURB-2130(2),PH-9040(1),NO2-353(2),NO3-353(2)
L2225875-01C	Plastic 250ml unpreserved	A	7	7	21.7	Y	Absent		FILTER(1)
L2225875-01D	Amber 500ml unpreserved	A	7	7	21.7	Y	Absent		COLOR-T-2120(2),COLOR-A-2120(2)
L2225875-01E	Plastic 950ml H2SO4 preserved	A	<2	<2	21.7	Y	Absent		TKN-4500(28),TPHOS-4500(28),NH3-4500(28)
L2225875-01X	Plastic 250ml H2SO4 preserved Filtrates	A	NA		21.7	Y	Absent		SPHOS-4500(28)
L2225875-02A	Plastic 250ml unpreserved/No Headspace	A	NA		21.7	Y	Absent		ALK-T-2320(14)
L2225875-02B	Plastic 250ml unpreserved	A	7	7	21.7	Y	Absent		TURB-2130(2),PH-9040(1),NO2-353(2),NO3-353(2)
L2225875-02C	Plastic 250ml unpreserved	A	7	7	21.7	Y	Absent		FILTER(1)
L2225875-02D	Amber 500ml unpreserved	A	7	7	21.7	Y	Absent		COLOR-T-2120(2),COLOR-A-2120(2)
L2225875-02E	Plastic 950ml H2SO4 preserved	A	<2	<2	21.7	Y	Absent		TKN-4500(28),TPHOS-4500(28),NH3-4500(28)
L2225875-02X	Plastic 250ml H2SO4 preserved Filtrates	A	NA		21.7	Y	Absent		SPHOS-4500(28)
L2225875-03A	Plastic 250ml unpreserved/No Headspace	A	NA		21.7	Y	Absent		ALK-T-2320(14)
L2225875-03B	Plastic 250ml unpreserved	A	7	7	21.7	Y	Absent		TURB-2130(2),PH-9040(1),NO2-353(2),NO3-353(2)
L2225875-03C	Plastic 250ml unpreserved	A	7	7	21.7	Y	Absent		FILTER(1)
L2225875-03D	Amber 500ml unpreserved	A	7	7	21.7	Y	Absent		COLOR-T-2120(2),COLOR-A-2120(2)
L2225875-03E	Plastic 950ml H2SO4 preserved	A	<2	<2	21.7	Y	Absent		TKN-4500(28),TPHOS-4500(28),NH3-4500(28)
L2225875-03X	Plastic 250ml H2SO4 preserved Filtrates	A	NA		21.7	Y	Absent		SPHOS-4500(28)
L2225875-04A	Plastic 250ml unpreserved	A	7	7	21.7	Y	Absent		TURB-2130(2),PH-9040(1),NO2-353(2),NO3-353(2)
L2225875-04B	Plastic 250ml unpreserved	A	7	7	21.7	Y	Absent		FILTER(1)
L2225875-04C	Plastic 950ml H2SO4 preserved	A	<2	<2	21.7	Y	Absent		TKN-4500(28),TPHOS-4500(28),NH3-4500(28)
L2225875-04X	Plastic 250ml H2SO4 preserved Filtrates	A	NA		21.7	Y	Absent		SPHOS-4500(28)

Project Name: FRAMINGHAM PONDS

Project Number: Not Specified

Serial_No:05312217:55

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2225875-05A	Plastic 250ml unpreserved/No Headspace	A	NA		21.7	Y	Absent		ALK-T-2320(14)
L2225875-05B	Plastic 250ml unpreserved	A	7	7	21.7	Y	Absent		TURB-2130(2),PH-9040(1),NO2-353(2),NO3-353(2)
L2225875-05C	Plastic 250ml unpreserved	A	7	7	21.7	Y	Absent		FILTER(1)
L2225875-05D	Amber 500ml unpreserved	A	7	7	21.7	Y	Absent		COLOR-T-2120(2),COLOR-A-2120(2)
L2225875-05E	Plastic 950ml H2SO4 preserved	A	<2	<2	21.7	Y	Absent		TKN-4500(28),TPHOS-4500(28),NH3-4500(28)
L2225875-05X	Plastic 250ml H2SO4 preserved Filtrates	A	NA		21.7	Y	Absent		SPHOS-4500(28)

Project Name: FRAMINGHAM PONDS
Project Number: Not Specified

Lab Number: L2225875
Report Date: 05/31/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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Footnotes

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: FRAMINGHAM PONDS
Project Number: Not Specified

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Report Date: 05/31/22

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: FRAMINGHAM PONDS

Lab Number: L2225875

Project Number: Not Specified

Report Date: 05/31/22

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

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

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



CHAIN OF CUSTODY

PAGE _____ OF _____

Date Rec'd in Lab: 5/16/22

ALPHA Job #: L2225875

8 Walkup Drive Westboro, MA 01581 Tel: 508-898-9220
 320 Forbes Blvd Mansfield, MA 02048 Tel: 508-822-9300

Project Information

Project Name: Framingham Pds
 Project Location: Framingham MA
 Project #:
 Project Manager:
 ALPHA Quote #:

Report Information - Data Deliverables
 ADEX EMAIL
 Same as Client info PO #:

Client Information

Client: Solitude Lake
 Address: 590 Lake St. Shrewsbury, MA
 Phone:
 Email: amahaney@solitudelake.com
 Additional Project Information:

Turn-Around Time
 Standard RUSH (only confirmed if pre-approved)
 Date Due:

Regulatory Requirements & Project Information Requirements
 Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program _____ Criteria _____

ANALYSIS	VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	PCB <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	PH/TWS/NO3/NO2 NH3/TKN/TPHOS SPHOS AIC/T-T/A Color	SAMPLE INFO
	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH							
Filtration <input type="checkbox"/> Field <input type="checkbox"/> Lab to do								
Sample Comments								

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
25875-01	Norton	5/16	2:15	SW	KV
02	Big Farm	5/16	12:15	SW	KV
03	Washakum Surface	5/16	2	SW	SC
04	Washakum Bottom	5/16	11:45	SW	SC
05	Little Farm	5/16	12:45	SW	KV

TOTAL # BOTTLES

Container Type
 P= Plastic
 A= Amber glass
 V= Vial
 G= Glass
 B= Bacteria cup
 C= Cube
 O= Other
 E= Encore
 D= BOD Bottle

Preservative
 A= None
 B= HCl
 C= HNO₃
 D= H₂SO₄
 E= NaOH
 F= MeOH
 G= NaHSO₄
 H= Na₂S₂O₃
 I= Ascorbic Acid
 J= NH₄Cl
 K= Zn Acetate
 O= Other

Container Type
 Preservative

Relinquished By: *[Signature]* Date/Time: 5/16/22 17:57
 Received By: *[Signature]* Date/Time: 5/16/22 17:57

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.
 FORM NO: 01-01 (rev. 12-Mar-2012)