



# Town of Swampscott Department of Public Works

22 Monument Avenue

Swampscott, Massachusetts 01907

Tel: 781-596-8860 Fax: 781-596-8828

Gino A. Cresta Jr., Director  
gcresta@swampscottma.gov

Kelly Stevens, Assistant Engineer  
kstevens@swampscottma.gov

March 1, 2021

Mr. Neil Handler  
Senior Enforcement Officer  
Water Technical Unit  
U.S. Environmental Protection Agency, Region 1  
5 Post Office Square, Suite 100  
Mail Code OES04-4  
Boston, MA 02109-3912

**SUBJECT: Consent Decree Compliance Report  
Period 8/1/2020 to 1/31/2021**

Dear Mr. Handler:

Pursuant to Paragraph 66 of the Consent Decree between the U.S. EPA and the Town of Swampscott, MA, I am providing the following certification statement with regard to the preparation and submittal of: **Compliance Reporting – Period 8/1/2020 to 1/31/2021**

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

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Gino A. Cresta, Jr.  
Director of Public Works

# MEMORANDUM

TO: Neil Handler | US EPA

FROM: David Peterson | Kleinfelder

DATE: March 1, 2021

CC: Gino Cresta, Kelly Stevens | Town of Swampscott  
Mark Thompson, Cecilia Carmona, Dan Scott | Kleinfelder

**SUBJECT: COMPLIANCE REPORTING - CASE 1:15-CV-13388-DJC  
SWAMPSCOTT, MASSACHUSETTS**

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## **Purpose:**

This Compliance Report is provided pursuant to Paragraph 33 of the subject Consent Decree between the United States of America and the Town of Swampscott, MA. This report covers the reporting period noted below:

<b>Reporting Period:</b> August 1, 2020 through January 31, 2021
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Through this reporting period, activities primarily included:

- Phase 1B post construction water quality monitoring in the Stacy's Brook area, and
- Final design and bidding of the Phase 1C sewer rehabilitation improvements project in Stacy's Brook

The following report summarizes the activities performed during the Reporting Period.

## **Phase 1B Construction Update**

During the current reporting period, Kleinfelder and the Town completed two rounds of wet weather post construction water quality monitoring. This testing followed the two rounds of dry weather testing completed in the previous reporting period.

The water quality monitoring performed was consistent with the Illicit Discharge and Elimination (IDDE) procedure detailed in the Consent Decree between the Town and the US EPA. The post construction monitoring was conducted at six (6) locations, including the drainage manhole immediately upstream of the intersection of Stetson Avenue and Norfolk Avenue and at the Stacy's Brook outfall during low tide. A map showing the water quality monitoring locations and

the lab results from the two rounds of wet weather post construction water quality monitoring are included in Appendix A.

### **Phase 1C Status Summary**

The design of the Stacy's Brook Sewer System Rehabilitation Project Phase 1C was refined between August – October 2020. Similar to Phase 1B, the Phase 1C design includes comprehensive sewer rehabilitation in specific neighborhoods in the Stacy's Brook catchment, consisting of cured in place pipe (CIPP) lining of sewer mainlines and laterals, sewer manhole rehabilitation, and split-wall sewer manhole rehabilitation (Type 2 underdrain manholes).

The Phase 1C bid proposal included a base bid and an additive alternate bid to maximize the scope of the project. The project scope includes the comprehensive rehabilitation of the sewer collection system in the remaining Phase 1 areas that were not completed in Phases 1A or 1B. These areas are primarily in the southern part of the Stacy's Brook catchment that converge at the intersection of Paradise Road and Norfolk Avenue.

The bid opening for Phase 1C occurred December 22, 2020 and the Town received a total of four (4) bids. The lowest apparent bidder, National Water Main Cleaning Co. of Canton, MA, submitted a base bid price of \$1,578,561 and an additive alternate bid price of \$184,212 for a total contract bid price of \$1,762,773. The bid tabulation from the bid opening is provided in Appendix B for reference.

Kleinfelder completed reference checks after the bid opening and recommended that the Town award the contract to National Water Main Cleaning Co. The Town subsequently awarded the contract on December 28, 2020. The Town plans to host a preconstruction meeting and issue the Notice to Proceed in March 2021. Construction is expected to begin shortly after, likely in April 2021.

Following the completion of Phase 1C construction, two rounds of wet weather and two rounds of dry weather post construction water quality monitoring will be performed consistent with the IDDE procedures detailed in the Consent Decree between the Town and the US EPA.

As noted above, the Phase 1C construction proposes to complete all remaining rehabilitation in the Phase 1 program. This is a change from the original vision for the Phase 1 program. Originally, the Town anticipated completing the Phase 1 work over four contracts (Phases 1A through 1D); however, due to favorable bid prices, the Town has opted to accelerate the Phase 1 program and condense it into three phases. This will offer the opportunity to complete Phase 1 program two years early.

**Tracking Data Tables:**

In accordance with Paragraph 33 of the Consent Decree, a series of tracking tables are presented furnishing the information requested.

- a) Chronology of SSO Events Occurring during Reporting Period
- b) Catchment Area Inspections Completed during Reporting Period
- c) Percentage of Catchment Area Investigated and Addressed
- d) Listing of Illicit Discharges Verified during Reporting Period
  - i) Illicit Connections
  - ii) Sanitary Sewer Defects
- e) Map of Location of Each Illicit Discharge Verified during Reporting Period
- f) Chart of Inspections Completed and Enforcement Actions Taken during Reporting Period
- g) List of Plans, Reports and other Submissions Required by this Consent Decree made during the Reporting Period
- h) Copies of Sampling Results Received during Reporting Period
- i) Planned Activities during the 6 Months Following the Reporting Period
- j) Summary of Non-Compliance with this Consent Decree during the Reporting Period

a) Chronology of SSO Events Occurring during Reporting Period

b) Catchment Area Inspections completed during Reporting Period

c) Percentage of Catchment Area Investigated and Addressed

Note that this reporting is in relation to meeting the Remedial Measures stipulated in Section VII of the consent decree. In order to meet the objectives of the consent decree, the Town’s scope of work is not specifically following an IDDE Plan, but rather, is directly following the Remedial Measures themselves, and the Scope of Work for the Stacy’s Brook drainage area that was submitted to the EPA on 10/26/2015.

33.b.i, ii	Sub-Catchment Area ID	Number of Drain Manholes in Sub-Catchment	Number of Drain Manholes Inspected						Number of Drain Manholes Addressed					
			Previous Reporting Periods		This Reporting Period		To-Date		Previous Reporting Periods		This Reporting Period		To-Date	
			QTY	%	QTY	%	QTY	%	QTY	%	QTY	%	QTY	%
1	Stacy’s Brook	236	21	9%	0	0%	21	9%	6	3%	0	0%	6	3%
2	Other	372	69	19%	0	0%	69	19%	0	0%	0	0%	0	0%
		<b>TOTAL</b>	90	15%	0	0%	90	15%	6	1%	0	0%	6	1%

33.b.iii, 33.c	Sub-Catchment Area ID	Length of Drain in Sub-Catchment	Length of Drain Inspected						Length of Drain Addressed					
			Previous Reporting Periods		This Reporting Period		To-Date		Previous Reporting Periods		This Reporting Period		To-Date	
			FT	%	FT	%	FT	%	FT	%	FT	%	FT	%
1	Stacy’s Brook	55,600	21,000	38%	0	0%	21,000	38%	650	1%	0	0%	650	1%
2	Other	95,000	2,263	2%	0	0%	2,263	2%	0	0%	0	0%	0	0%
		<b>TOTAL</b>	23,263	15%	0	0%	23,263	15%	650	0%	0	0%	650	0%

d) Listing of Illicit Discharges Verified during Reporting Period

										Total Volume Removed (Gallons)							
										Prior Reporting Periods	269,176						
										This Reporting Period	0						
										Cumulative To Date	269,176						
Discharge Type	Date Verified	Location / Address	SOURCE if: Building Type	SOURCE if: Sewer Exfiltration	Estimated Flow (GPM)	Actions Taken to Remove	Date Removed	Cost to Remove	Volume Removed (Gallons) (Reporting Period)	Actively Discharging > 60 Days	Explanation	Schedule for Removal	Private Discharges Persisting > 90 days	Town's Legal Enforcement Actions	Reasons for Delay		
Paragraph ->	i.	i.	i.	i.	ii.	iii.	iv.	v.	vi.	vii.	vii.	viii.	ix.	ix.	x.		
Sewer Defect	12/22/2020	101 Rockland St	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	12/22/2020	unknown	unknown	No	n/a	completed	No	None	n/a		
Sewer Defect	10/30/2020	188 Aspen Rd	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	10/30/2020	unknown	unknown	No	n/a	completed	No	None	n/a		
Sewer Defect	10/30/2020	16 Laurel Rd	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	10/30/2020	unknown	unknown	No	n/a	completed	No	None	n/a		
Sewer Defect	10/30/2020	245 Paradise Rd	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	10/30/2020	unknown	unknown	No	n/a	completed	No	None	n/a		

Discharge Type	Date Verified	Location / Address	SOURCE if: Building Type	SOURCE if: Sewer Exfiltration	Estimated Flow (GPM)	Actions Taken to Remove	Date Removed	Cost to Remove	Volume Removed (Gallons) (Reporting Period)	Actively Discharging > 60 Days	Explanation	Schedule for Removal	Private Discharges Persisting > 90 days	Town's Legal Enforcement Actions	Reasons for Delay
Paragraph ->	i.	i.	i.	i.	ii.	iii.	iv.	v.	vi.	vii.	vii.	viii.	ix.	ix.	x.
Sewer Defect	9/21/2020	2 Longwood Dr	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	9/21/2020	unknown	unknown	No	n/a	completed	No	None	n/a
Sewer Defect	9/14/2020	63 Walnut Rd	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	9/14/2020	unknown	unknown	No	n/a	completed	No	None	n/a
Sewer Defect	8/26/2020	20 Laurel Rd	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	8/26/2020	unknown	unknown	No	n/a	completed	No	None	n/a
Sewer Defect	8/3/2020	6 Pine Hill Rd	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	8/3/2020	unknown	unknown	No	n/a	completed	No	None	n/a

**e) Map of Location of Each Illicit Discharge Verified during Reporting Period**

A map showing the locations of all illicit discharges and SSOs is included in Appendix C.

**f) Chart of Inspections Completed and Enforcement Actions Taken during Reporting Period**

Number of Routine Inspections	Number of Complaint-Response Related Inspections	Number of Total Construction Inspections
18	12	10

Enforcement Actions Taken (Type)	Enforcement Actions Taken (Number)
Notifications to Property Owner	0
Entry To Perform Duties	0
Penalty (Fines)	0
Orders	0
Civil Relief	0
Town Resolved using own means (no enforcement)	0



**g) List of Plans, Reports and other Submissions Required by this Consent Decree made during the Reporting Period**

Submission Description	Date Completed	Consent Decree Paragraph Reference
Bi-Annual Progress Report	3/1/2021	18
Annual GIS Mapping Update	2/1/2021	26

**h) Copies of Sampling Results Received during Reporting Period**

Results from two dry weather rounds of Phase 1B post construction water quality monitoring are provided in Appendix A.

**i) Planned Activities during the 6 Months Following the Reporting Period**

During the period February 1, 2021 through July 31, 2021 the following activities are anticipated:

- Town to host preconstruction meeting and issue the Notice to Proceed for Phase 1C construction.
- Begin the construction of Phase 1C sewer rehabilitation improvements. The Contractor has 270 days to complete construction following NTP under the Phase 1C contract.

**j) Summary of Non-Compliance with this Consent Decree during the Reporting Period**

There has been no non-compliance during this report period.

## **Appendix A**

### Laboratory Results for Phase 1B Post-Construction Wet Weather Monitoring



## ANALYTICAL REPORT

Lab Number:	L2041345
Client:	Kleinfelder One Beacon Street Suite 8100 Boston, MA 02108
ATTN:	Doris Jenkins
Phone:	(617) 497-7800
Project Name:	SWAMPSCOTT 1B-PC
Project Number:	20190719
Report Date:	10/06/20

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

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

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



**Project Name:** SWAMPSCOTT 1B-PC  
**Project Number:** 20190719

**Lab Number:** L2041345  
**Report Date:** 10/06/20

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2041345-01	KLF-7	WATER	Not Specified	09/30/20 07:15	09/30/20
L2041345-02	KLF-4	WATER	Not Specified	09/30/20 07:55	09/30/20
L2041345-03	KLF-3	WATER	Not Specified	09/30/20 08:20	09/30/20
L2041345-04	KLF-1	WATER	Not Specified	09/30/20 08:55	09/30/20
L2041345-05	KLF-5	WATER	Not Specified	09/30/20 09:25	09/30/20
L2041345-06	KLF-6	WATER	Not Specified	09/30/20 09:50	09/30/20

**Project Name:** SWAMPSCOTT 1B-PC  
**Project Number:** 20190719

**Lab Number:** L2041345  
**Report Date:** 10/06/20

### 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.

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: 10/06/20

# **INORGANICS & MISCELLANEOUS**

Project Name: SWAMPSCOTT 1B-PC

Project Number: 20190719

Lab Number: L2041345

Report Date: 10/06/20

## SAMPLE RESULTS

Lab ID: L2041345-01

Client ID: KLF-7

Sample Location: Not Specified

Date Collected: 09/30/20 07:15

Date Received: 09/30/20

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	23748		MPN/100ml	200	NA	200	-	09/30/20 15:10	102,ENTEROLER	CM



**Project Name:** SWAMPSCOTT 1B-PC  
**Project Number:** 20190719

**Lab Number:** L2041345  
**Report Date:** 10/06/20

**SAMPLE RESULTS**

**Lab ID:** L2041345-02  
**Client ID:** KLF-4  
**Sample Location:** Not Specified

**Date Collected:** 09/30/20 07:55  
**Date Received:** 09/30/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	58186		MPN/100ml	200	NA	200	-	09/30/20 15:10	102,ENTEROLER	CM





Project Name: SWAMPSCOTT 1B-PC

Project Number: 20190719

Lab Number: L2041345

Report Date: 10/06/20

## SAMPLE RESULTS

Lab ID: L2041345-03

Client ID: KLF-3

Sample Location: Not Specified

Date Collected: 09/30/20 08:20

Date Received: 09/30/20

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	65108		MPN/100ml	200	NA	200	-	09/30/20 15:10	102,ENTEROLER	CM



Project Name: SWAMPSCOTT 1B-PC

Project Number: 20190719

Lab Number: L2041345

Report Date: 10/06/20

## SAMPLE RESULTS

Lab ID: L2041345-04

Client ID: KLF-1

Sample Location: Not Specified

Date Collected: 09/30/20 08:55

Date Received: 09/30/20

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	45636		MPN/100ml	200	NA	200	-	09/30/20 15:10	102,ENTEROLER	CM



Project Name: SWAMPSCOTT 1B-PC

Project Number: 20190719

Lab Number: L2041345

Report Date: 10/06/20

## SAMPLE RESULTS

Lab ID: L2041345-05

Client ID: KLF-5

Sample Location: Not Specified

Date Collected: 09/30/20 09:25

Date Received: 09/30/20

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	42832		MPN/100ml	200	NA	200	-	09/30/20 15:10	102,ENTEROLER	CM



Project Name: SWAMPSCOTT 1B-PC

Project Number: 20190719

Lab Number: L2041345

Report Date: 10/06/20

## SAMPLE RESULTS

Lab ID: L2041345-06

Client ID: KLF-6

Sample Location: Not Specified

Date Collected: 09/30/20 09:50

Date Received: 09/30/20

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	82116		MPN/100ml	200	NA	200	-	09/30/20 15:10	102,ENTEROLER	CM



**Project Name:** SWAMPSCOTT 1B-PC  
**Project Number:** 20190719

**Lab Number:** L2041345  
**Report Date:** 10/06/20

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab for sample(s): 01-06 Batch: WG1416493-1										
ENTEROCOCCUS	<1		MPN/100ml	1	NA	1	-	09/30/20 15:10	102,ENTEROLER T	CM

**Project Name:** SWAMPSCOTT 1B-PC  
**Project Number:** 20190719

Serial\_No:10062018:50  
**Lab Number:** L2041345  
**Report Date:** 10/06/20

**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

**Cooler**                      **Custody Seal**  
A                                      Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2041345-01A	Bacteria Cup Na2S2O3 preserved	A	NA		3.5	Y	Absent		ENTRO-QT(.33)
L2041345-01B	Bacteria Cup Na2S2O3 preserved	A	NA		3.5	Y	Absent		ENTRO-QT(.33)
L2041345-02A	Bacteria Cup Na2S2O3 preserved	A	NA		3.5	Y	Absent		ENTRO-QT(.33)
L2041345-02B	Bacteria Cup Na2S2O3 preserved	A	NA		3.5	Y	Absent		ENTRO-QT(.33)
L2041345-03A	Bacteria Cup Na2S2O3 preserved	A	NA		3.5	Y	Absent		ENTRO-QT(.33)
L2041345-03B	Bacteria Cup Na2S2O3 preserved	A	NA		3.5	Y	Absent		ENTRO-QT(.33)
L2041345-04A	Bacteria Cup Na2S2O3 preserved	A	NA		3.5	Y	Absent		ENTRO-QT(.33)
L2041345-04B	Bacteria Cup Na2S2O3 preserved	A	NA		3.5	Y	Absent		ENTRO-QT(.33)
L2041345-05A	Bacteria Cup Na2S2O3 preserved	A	NA		3.5	Y	Absent		ENTRO-QT(.33)
L2041345-05B	Bacteria Cup Na2S2O3 preserved	A	NA		3.5	Y	Absent		ENTRO-QT(.33)
L2041345-06A	Bacteria Cup Na2S2O3 preserved	A	NA		3.5	Y	Absent		ENTRO-QT(.33)
L2041345-06B	Bacteria Cup Na2S2O3 preserved	A	NA		3.5	Y	Absent		ENTRO-QT(.33)

\*Values in parentheses indicate holding time in days



**Project Name:** SWAMPSCOTT 1B-PC  
**Project Number:** 20190719

**Lab Number:** L2041345  
**Report Date:** 10/06/20

## 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.

Report Format: Data Usability Report



**Project Name:** SWAMPSCOTT 1B-PC  
**Project Number:** 20190719

**Lab Number:** L2041345  
**Report Date:** 10/06/20

#### 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, Benzo(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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 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.

Report Format: Data Usability Report





**Project Name:** SWAMPSCOTT 1B-PC  
**Project Number:** 20190719

**Lab Number:** L2041345  
**Report Date:** 10/06/20

**Data Qualifiers**

- 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.

**Project Name:** SWAMPSCOTT 1B-PC  
**Project Number:** 20190719

**Lab Number:** L2041345  
**Report Date:** 10/06/20

## REFERENCES

- 102 Standard Test Method for Enterococci in Water Using Enterolert (IDEXX Defined Substrate Technology), American Society of Testing & Materials, ASTM D6503-99.

## 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

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

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

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### 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.

**EPA TO-12** Non-methane organics

**EPA 3C** Fixed gases

**Biological Tissue Matrix:** EPA 3050B

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

### Westborough Facility:

#### Drinking Water

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

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

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

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

#### Non-Potable Water

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

**EPA 624.1:** Volatile Halocarbons & Aromatics,

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

### Mansfield Facility:

#### Drinking Water

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

**EPA 522.**

#### Non-Potable Water

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

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

**EPA 245.1** Hg.

**SM2340B**

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



# CHAIN OF CUSTODY

PAGE \_\_\_\_\_ OF \_\_\_\_\_

Date Rec'd in Lab: 9/30/20

ALPHA Job #: 12041345

8 Walkup Drive  
Westboro, MA 01581  
Tel: 508-898-9220

320 Forbes Blvd  
Mansfield, MA 02048  
Tel: 508-822-9300

### Project Information

Project Name: Swampscott 1B-AC

### Report Information - Data Deliverables

ADEx  EMAIL

### Billing Information

Same as Client info PO #:

### Client Information

Client: Kleinfelder

### Project Location:

Project #: 20190719

Address: 1 Beacon St Suite 8100  
Boston, MA

### Project Manager:

ALPHA Quote #:

Phone: 860-682-0307

### Turn-Around Time

Email: djenkins@kleinfelder.com

Standard  RUSH (only confirmed if pre-approved)

Date Due:

Additional Project Information:

### 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	SAMPLE INFO
	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	Filtration <input type="checkbox"/> Field <input type="checkbox"/> Lab to do	
METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8		
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	Preservation <input type="checkbox"/> Lab to do	
VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only		
<input type="checkbox"/> PCB <input type="checkbox"/> PEST	Sample Comments	
TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint		
INTEROCOCCLUS		TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
41345-01	KLF-7	9/30/20	7:15		DD
-02	KLF-4	9/30/20	7:55		D9
-03	KLF-3	9/30/20	8:20		D9
-04	KLF-1	9/30/20	8:55		D9
-05	KLF-5	9/30/20	9:25		D9
-06	KLF-6	9/30/20	9:50		D9

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

**Preservative**  
A= None  
B= HCl  
C= HNO<sub>3</sub>  
D= H<sub>2</sub>SO<sub>4</sub>  
E= NaOH  
F= MeOH  
G= NaHSO<sub>4</sub>  
H= Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
I= Ascorbic Acid  
J= NH<sub>4</sub>Cl  
K= Zn Acetate  
O= Other

Container Type  
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i> AAL	9/30/20	<i>[Signature]</i> AAL	9/30/20 11:20
<i>[Signature]</i> AAL	9/30 12:55	<i>[Signature]</i> JKL	9/30/20 12:55

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



## ANALYTICAL REPORT

Lab Number:	L2043783
Client:	Kleinfelder One Beacon Street Suite 8100 Boston, MA 02108
ATTN:	Doris Jenkins
Phone:	(617) 497-7800
Project Name:	SWAMPSCOTT PC
Project Number:	20190719
Report Date:	10/20/20

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

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

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



**Project Name:** SWAMPSCOTT PC  
**Project Number:** 20190719

**Lab Number:** L2043783  
**Report Date:** 10/20/20

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2043783-01	KLF-4	WATER	Not Specified	10/13/20 10:35	10/13/20
L2043783-02	KLF-3	WATER	Not Specified	10/13/20 11:20	10/13/20
L2043783-03	KLF-2	WATER	Not Specified	10/13/20 11:40	10/13/20
L2043783-04	KLF-1	WATER	Not Specified	10/13/20 12:05	10/13/20
L2043783-05	KLF-5	WATER	Not Specified	10/13/20 12:30	10/13/20
L2043783-06	KLF-6	WATER	Not Specified	10/13/20 12:45	10/13/20
L2043783-07	KLF-7	WATER	Not Specified	10/13/20 13:05	10/13/20

**Project Name:** SWAMPSCOTT PC  
**Project Number:** 20190719

**Lab Number:** L2043783  
**Report Date:** 10/20/20

### 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.

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:  Melissa Sturgis

Title: Technical Director/Representative

Date: 10/20/20

# **INORGANICS & MISCELLANEOUS**



Project Name: SWAMPSCOTT PC

Project Number: 20190719

Lab Number: L2043783

Report Date: 10/20/20

## SAMPLE RESULTS

Lab ID: L2043783-01

Client ID: KLF-4

Sample Location: Not Specified

Date Collected: 10/13/20 10:35

Date Received: 10/13/20

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	13936		MPN/100ml	200	NA	200	-	10/13/20 17:03	102,ENTEROLER	CM



Project Name: SWAMPSCOTT PC

Lab Number: L2043783

Project Number: 20190719

Report Date: 10/20/20

## SAMPLE RESULTS

Lab ID: L2043783-02

Date Collected: 10/13/20 11:20

Client ID: KLF-3

Date Received: 10/13/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	10242		MPN/100ml	200	NA	200	-	10/13/20 17:03	102,ENTEROLER T	CM



Project Name: SWAMPSCOTT PC

Lab Number: L2043783

Project Number: 20190719

Report Date: 10/20/20

## SAMPLE RESULTS

Lab ID: L2043783-03

Date Collected: 10/13/20 11:40

Client ID: KLF-2

Date Received: 10/13/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	4022		MPN/100ml	200	NA	200	-	10/13/20 17:03	102,ENTEROLER	CM



Project Name: SWAMPSCOTT PC

Lab Number: L2043783

Project Number: 20190719

Report Date: 10/20/20

## SAMPLE RESULTS

Lab ID: L2043783-04

Date Collected: 10/13/20 12:05

Client ID: KLF-1

Date Received: 10/13/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	6722		MPN/100ml	200	NA	200	-	10/13/20 17:03	102,ENTEROLER	CM



Project Name: SWAMPSCOTT PC

Project Number: 20190719

Lab Number: L2043783

Report Date: 10/20/20

## SAMPLE RESULTS

Lab ID: L2043783-05

Client ID: KLF-5

Sample Location: Not Specified

Date Collected: 10/13/20 12:30

Date Received: 10/13/20

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	43744		MPN/100ml	200	NA	200	-	10/13/20 17:03	102,ENTEROLER	CM



Project Name: SWAMPSCOTT PC

Lab Number: L2043783

Project Number: 20190719

Report Date: 10/20/20

## SAMPLE RESULTS

Lab ID: L2043783-06

Date Collected: 10/13/20 12:45

Client ID: KLF-6

Date Received: 10/13/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	11110		MPN/100ml	200	NA	200	-	10/13/20 17:03	102,ENTEROLER	CM



**Project Name:** SWAMPSCOTT PC  
**Project Number:** 20190719

**Lab Number:** L2043783  
**Report Date:** 10/20/20

**SAMPLE RESULTS**

Lab ID: L2043783-07  
 Client ID: KLF-7  
 Sample Location: Not Specified

Date Collected: 10/13/20 13:05  
 Date Received: 10/13/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	16252		MPN/100ml	200	NA	200	-	10/13/20 17:03	102,ENTEROLER	CM



**Project Name:** SWAMPSCOTT PC  
**Project Number:** 20190719

**Lab Number:** L2043783  
**Report Date:** 10/20/20

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab for sample(s): 01-07 Batch: WG1421671-1										
ENTEROCOCCUS	<1		MPN/100ml	1	NA	1	-	10/13/20 17:03	102,ENTEROLER T	CM



**Project Name:** SWAMPSCOTT PC**Lab Number:** L2043783**Project Number:** 20190719**Report Date:** 10/20/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2043783-01A	Bacteria Cup Na2S2O3 preserved	A	NA		5.0	Y	Absent		ENTRO-QT(.33)
L2043783-01B	Bacteria Cup Na2S2O3 preserved	A	NA		5.0	Y	Absent		ENTRO-QT(.33)
L2043783-02A	Bacteria Cup Na2S2O3 preserved	A	NA		5.0	Y	Absent		ENTRO-QT(.33)
L2043783-02B	Bacteria Cup Na2S2O3 preserved	A	NA		5.0	Y	Absent		ENTRO-QT(.33)
L2043783-03A	Bacteria Cup Na2S2O3 preserved	A	NA		5.0	Y	Absent		ENTRO-QT(.33)
L2043783-03B	Bacteria Cup Na2S2O3 preserved	A	NA		5.0	Y	Absent		ENTRO-QT(.33)
L2043783-04A	Bacteria Cup Na2S2O3 preserved	A	NA		5.0	Y	Absent		ENTRO-QT(.33)
L2043783-04B	Bacteria Cup Na2S2O3 preserved	A	NA		5.0	Y	Absent		ENTRO-QT(.33)
L2043783-05A	Bacteria Cup Na2S2O3 preserved	A	NA		5.0	Y	Absent		ENTRO-QT(.33)
L2043783-05B	Bacteria Cup Na2S2O3 preserved	A	NA		5.0	Y	Absent		ENTRO-QT(.33)
L2043783-06A	Bacteria Cup Na2S2O3 preserved	A	NA		5.0	Y	Absent		ENTRO-QT(.33)
L2043783-06B	Bacteria Cup Na2S2O3 preserved	A	NA		5.0	Y	Absent		ENTRO-QT(.33)
L2043783-07A	Bacteria Cup Na2S2O3 preserved	A	NA		5.0	Y	Absent		ENTRO-QT(.33)
L2043783-07B	Bacteria Cup Na2S2O3 preserved	A	NA		5.0	Y	Absent		ENTRO-QT(.33)

**Project Name:** SWAMPSCOTT PC  
**Project Number:** 20190719

**Lab Number:** L2043783  
**Report Date:** 10/20/20

## 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.

Report Format: Data Usability Report



**Project Name:** SWAMPSCOTT PC  
**Project Number:** 20190719

**Lab Number:** L2043783  
**Report Date:** 10/20/20

#### 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, Benzo(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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 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.

Report Format: Data Usability Report



**Project Name:** SWAMPSCOTT PC  
**Project Number:** 20190719

**Lab Number:** L2043783  
**Report Date:** 10/20/20

**Data Qualifiers**

- 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.

**Project Name:** SWAMPSCOTT PC  
**Project Number:** 20190719

**Lab Number:** L2043783  
**Report Date:** 10/20/20

## REFERENCES

- 102 Standard Test Method for Enterococci in Water Using Enterolert (IDEXX Defined Substrate Technology), American Society of Testing & Materials, ASTM D6503-99.

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

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

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### 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.

**EPA TO-12** Non-methane organics

**EPA 3C** Fixed gases

**Biological Tissue Matrix:** EPA 3050B

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

### Westborough Facility:

#### Drinking Water

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

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

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

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

#### Non-Potable Water

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

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

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

### Mansfield Facility:

#### Drinking Water

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

**EPA 522.**

#### Non-Potable Water

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

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

**EPA 245.1** Hg.

**SM2340B**

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



# CHAIN OF CUSTODY

PAGE \_\_\_\_\_ OF \_\_\_\_\_

6 Walkup Drive  
Westboro, MA 01581  
Tel: 508-898-9220

320 Forbes Blvd  
Mansfield, MA 02048  
Tel: 508-822-9300

Date Rec'd in Lab: 10/13/20

ALPHA Job #: L2043783

## Project Information

Project Name: Swampscott PC

Project Location:

Project #: 20140719

Project Manager:

ALPHA Quote #:

## Turn-Around Time

Standard  RUSH (only confirmed if pre-approved)

Date Due:

## Report Information - Data Deliverables

ADEX  EMAIL

## Billing Information

Same as Client info PO #:

## 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 \_\_\_\_\_

## Client Information

Client: Kleinfelder

Address: 1 Beacon St suite 8100

Phone: 860 682 0307

Email: djenkins@kleinfelder.com

Additional Project Information:

ANALYSIS		SAMPLE INFO	
VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	Filtration	<input type="checkbox"/> Field
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8 <input type="checkbox"/> PPT3	<input type="checkbox"/> Lab to do	Preservation
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	<input type="checkbox"/> Lab to do	
TPH: <input type="checkbox"/> PCB <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint		
ENTEROCOCCUS		Sample Comments	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
4378201	KLF-4	10/13/20	10:35		DN
-02	KLF-3	10/13/20	11:20		DN
-03	KLF-2	10/13/20	11:40		DN
-04	KLF-2 1	10/13/20	12:05		DN
-05	KLF-5	10/13/20	12:30		DN
-06	KLF-6	10/13/20	12:45		DN
-07	KLF-7	10/13/20	1:05		DN

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= HNO<sub>3</sub>  
D= H<sub>2</sub>SO<sub>4</sub>  
E= NaOH  
F= MeOH  
G= NaHSO<sub>4</sub>  
H= Na<sub>2</sub>S<sub>2</sub>O<sub>8</sub>  
I= Ascorbic Acid  
J= NH<sub>4</sub>Cl  
K= Zn Acetate  
O= Other

Container Type

Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
<i>M. Smith</i>	10/13/20 13:27	<i>Mark Miller AEC</i>	10/13/20 13:20
	10/13/20 13:20	<i>Ch</i>	10/13/20 13:20

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

## **Appendix B**

Stacy's Brook Phase 1C Bid Tabulation



**Stacey's Brook Sewer System Rehabilitation Project – Phase 1C**  
**Bid Tabulation**  
**Town of Swampscott, MA**  
**BID OPENING: December 21, 2020 2:00 PM**

Item #	Item Description	Unit	Total Quantity	BLD		NWMCC		Kenyon		Green Mountain	
				Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount
1	Mobilization / Demobilization (Should not exceed 5% of total bid)	LS	1	\$50,000.00	\$50,000.00	\$10,000.00	\$10,000.00	\$15,000.00	\$15,000.00	\$20,000.00	\$20,000.00
2.1	Heavy Cleaning 8" to 12" Pipeline	LF	1,200	\$3.00	\$3,600.00	\$5.00	\$6,000.00	\$3.00	\$3,600.00	\$4.00	\$4,800.00
2.2	Heavy Cleaning of Service Lateral	LF	1,000	\$15.00	\$15,000.00	\$40.00	\$40,000.00	\$14.00	\$14,000.00	\$14.00	\$14,000.00
3.1	8" Cured-in-Place Pipeline	LF	8,100	\$30.00	\$243,000.00	\$24.20	\$196,020.00	\$29.00	\$234,900.00	\$29.00	\$234,900.00
3.2	10" Cured-in-Place Pipeline	LF	1,280	\$30.00	\$38,400.00	\$25.25	\$32,320.00	\$30.00	\$38,400.00	\$31.00	\$39,680.00
3.3	12" Cured-in-Place Pipeline	LF	2,660	\$34.00	\$90,440.00	\$29.60	\$78,736.00	\$33.00	\$87,780.00	\$32.00	\$85,120.00
4.1	Sewer Point Repair ROW	EA	8	\$8,000.00	\$64,000.00	\$8,062.50	\$64,500.00	\$11,250.00	\$90,000.00	\$1,600.00	\$12,800.00
4.2	Lateral Point Repair ROW	EA	12	\$4,500.00	\$54,000.00	\$5,912.50	\$70,950.00	\$10,500.00	\$126,000.00	\$1,600.00	\$19,200.00
4.3	Lateral Point Repair Private	EA	12	\$1,600.00	\$19,200.00	\$1,600.00	\$19,200.00	\$1,800.00	\$21,600.00	\$1,600.00	\$19,200.00
5.1	Cutting Intruding Laterals	EA	4	\$500.00	\$2,000.00	\$200.00	\$800.00	\$250.00	\$1,000.00	\$500.00	\$2,000.00
6.1	Lateral Cleaning and CCTV	LF	9,500	\$14.00	\$133,000.00	\$16.75	\$159,125.00	\$23.00	\$218,500.00	\$12.00	\$114,000.00
6.2	Lateral Set-UP	EA	233	\$3,500.00	\$815,500.00	\$3,350.00	\$780,550.00	\$3,300.00	\$768,900.00	\$3,500.00	\$815,500.00
6.3	Lateral CIPP	LF	7,150	\$5.00	\$35,750.00	\$1.00	\$7,150.00	\$20.00	\$143,000.00	\$20.00	\$143,000.00
6.4	Lateral Clean-Out	EA	5	\$3,500.00	\$17,500.00	\$1.00	\$5.00	\$3,500.00	\$17,500.00	\$4,500.00	\$22,500.00
7.1	Manhole Cementitious Lining	VF	358	\$205.00	\$73,390.00	\$160.00	\$57,280.00	\$230.00	\$82,340.00	\$225.00	\$80,550.00
7.2	Manhole Chimney Seal	EA	71	\$450.00	\$31,950.00	\$275.00	\$19,525.00	\$475.00	\$33,725.00	\$490.00	\$34,790.00
8.1	Type 2 Underdrain Manhole Rehabilitation	EA	24	\$1,350.00	\$32,400.00	\$1,350.00	\$32,400.00	\$2,100.00	\$50,400.00	\$900.00	\$21,600.00
9.1	AC Abatement	EA	2	\$1,000.00	\$2,000.00	\$2,000.00	\$4,000.00	\$1,000.00	\$2,000.00	\$800.00	\$1,600.00
<b>Subtotal Base Bid</b>					<b>\$1,721,130.00</b>		<b>\$1,578,561.00</b>		<b>\$1,948,645.00</b>		<b>\$1,685,240.00</b>
<b>Item #</b>	<b>Additive Alternative Bid</b>										
2.1	Heavy Cleaning of 8" Pipeline	LF	100	\$3.00	\$300.00	\$5.00	\$500.00	\$3.00	\$300.00	\$4.00	\$400.00
2.2	Heavy Cleaning of Service Lateral	LF	100	\$15.00	\$1,500.00	\$40.00	\$4,000.00	\$14.00	\$1,400.00	\$14.00	\$1,400.00
3.1	8" Cured-in-Place Pipeline	LF	1,730	\$35.00	\$60,550.00	\$27.20	\$47,056.00	\$29.00	\$50,170.00	\$29.00	\$50,170.00
3.2	10" Cured-in-Place Pipeline	LF	320	\$36.00	\$11,520.00	\$28.25	\$9,040.00	\$30.00	\$9,600.00	\$31.00	\$9,920.00
4.1	Sewer Point Repair ROW	EA	2	\$8,000.00	\$16,000.00	\$2,062.50	\$4,125.00	\$11,250.00	\$22,500.00	\$1,600.00	\$3,200.00
4.2	Lateral Point Repair ROW	EA	2	\$4,500.00	\$9,000.00	\$5,912.50	\$11,825.00	\$10,500.00	\$21,000.00	\$1,600.00	\$3,200.00
4.3	Lateral Point Repair Private	EA	2	\$1,600.00	\$3,200.00	\$1,600.00	\$3,200.00	\$1,800.00	\$3,600.00	\$1,600.00	\$3,200.00
6.1	Lateral Cleaning and CCTV	LF	900	\$14.00	\$12,600.00	\$16.75	\$15,075.00	\$23.00	\$20,700.00	\$12.00	\$10,800.00
6.2	Lateral Set-UP	EA	22	\$3,500.00	\$77,000.00	\$3,350.00	\$73,700.00	\$3,300.00	\$72,600.00	\$3,500.00	\$77,000.00
6.3	Lateral CIPP	LF	680	\$5.00	\$3,400.00	\$1.00	\$680.00	\$20.00	\$13,600.00	\$20.00	\$13,600.00
6.4	Lateral Clean-Out	EA	1	\$3,500.00	\$3,500.00	\$1.00	\$1.00	\$3,500.00	\$3,500.00	\$4,500.00	\$4,500.00
7.1	Manhole Cementitious Lining	VF	76	\$205.00	\$15,580.00	\$160.00	\$12,160.00	\$230.00	\$17,480.00	\$225.00	\$17,100.00
7.2	Manhole Chimney Seal	EA	10	\$450.00	\$4,500.00	\$275.00	\$2,750.00	\$475.00	\$4,750.00	\$490.00	\$4,900.00
8.1	Type 2 MH Rehabilitation	EA	0	\$1,350.00	\$0.00	\$2,500.00	\$0.00	\$0.00	\$0.00	\$900.00	\$0.00
9.1	AC Abatement	EA	2	\$1,000.00	\$2,000.00	\$50.00	\$100.00	\$1,000.00	\$2,000.00	\$800.00	\$1,600.00
<b>Subtotal Additive Alternative Bid</b>					<b>\$220,650.00</b>		<b>\$184,212.00</b>		<b>\$243,200.00</b>		<b>\$200,990.00</b>
<b>Subtotal Base Bid + Additive Alternative Bid</b>					<b>\$1,941,780.00</b>		<b>\$1,762,773.00</b>		<b>\$2,191,845.00</b>		<b>\$1,886,230.00</b>

## **Appendix C**

### Illicit Discharge and SSO Overview Map



**LEGEND**

**TYPE**

- ★ ILLICIT DISCHARGE
- ★ SSO
- ▲ MS4 Outfall
- Catch Basin
- Drain Manhole
- Drain Culvert
- Drain Pipe
- Underdrain Manhole
- Sewer Manhole
- Sewer Pump Station
- Sewer - Gravity
- Sewer - Force Main
- Under Drains

**303d Listed Waters**

- ▨ Fish Consumption, Not Supporting
- ▨ Shellfish Harvesting, Not Supporting
- Water Bodies
- Parcels
- Town Borders



The information contained on this graphic representation has been compiled from a variety of sources and is subject to change without notice. The user of this information is advised to verify the accuracy, completeness, timeliness, or quality of the information contained on the graphic representation in the context of the user's intended use of the information.



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DRAWN:	3/1/2021
DRAWN BY:	JVR
CHECKED BY:	DFS
FILE NAME:	Compliance Reporting

<b>APPENDIX C</b>	
<b>ILLICIT DISCHARGE &amp; SSO LOCATIONS</b>	
<b>REPORTING PERIOD: 8/1/20 to 1/31/21</b>	
EPA Consent Decree Swampscott, Massachusetts	