Report. HW.360104. 2019-05-09. Well_and_Water_Results

(please scan to size and in color)

360104

ALTA Environmental Corp.
121 Broadway, Colchester, Connecticut 06415
Phone: (860) 537-2582, Fax: (860) 537-8374

6 May 2019
File No. 1064-01

Finch's Country Store
4 Bedford-Banksville Road
North Castle, NY 10506

Attention: Mr. Michael Gjini

Re: April 2019 Water Supply Well and Water Treatment System Monitoring Results

Dear Mr. Gjini:

The water supply serving Finch's Country Store is currently treated with a Hallett ultraviolet (UV) disinfection system and two in-line sediment filters, referred to herein as your treatment system. Please note that the treatment system serving the store appears to be designed to eliminate bacteria and remove particulate matter from the water supply; such a treatment system is not designed to remove volatile organic compounds (VOCs). As such, water quality samples collected from before or after the treatment system should be considered as representative of the quality of the store's drinking water supply with respect to VOCs.

On 4 April 2019, ALTA Environmental Corporation (ALTA) personnel collected a sample of the untreated ("raw") water from the store after letting the tap run for approximately 15 minutes. A copy of ALTA's Sampling Record Form is attached. The water sample was placed into laboratory-provided sample containers, which contained the appropriate preservative for samples intended for VOCs analysis. The samples was placed on ice and kept chilled until delivery to a laboratory that is accredited pursuant to New York State Department of Health (NYS DOH) Environmental Laboratory Accreditation Program for the requested analyses. Specifically, the raw water sample was submitted to Phoenix Environmental Laboratories, Inc. (NY Registration #11301), for analysis for VOCs by EPA Method 524. 2. The laboratory report is attached, and the results are summarized below:

Sample Location	Compound	Concentration (µg/l)	NYS Regulatory Limit (µg/l)
Raw (untreated)	cis-1,2-dichloroethene	0.97	5

Notes:
Raw – untreated water sample collected before the UV disinfection system and sediment filters

The concentration of cis-1,2-dichloroethene detected in the sample of the untreated ("raw") water from before the treatment system is below the NYS DOH Part 5 Maximum Contaminant Level (MCL) Drinking Water Standards (DWS) for this compound. Part 5 does not have compound-specific DWS for cis-1,2-dichloroethene, but this compound falls under the definition of a "Principal Organic Compound" for which the DWS is 5 µg/l for each individual compound. No further action other than routine monitoring is warranted at this time, which will be scheduled for September 2019.

If you have questions regarding these results, please do not hesitate to contact the undersigned.

Sincerely yours,
ALTA Environmental Corporation

Gordon Binkhorst, Ph.D.
Senior Hydrogeologist

Evan J. Glass
President

Attachments: Residential Sampling Record Form
Phoenix Environmental Laboratories, Inc. Report GCC89174, dated 9 April 2019

c: David A. Crosby, NYS Department of Environmental Conservation
George Momberger, NYS Department of Environmental Conservation
Carlos Torres, Westchester County Department of Health
Guy Sutton, Esq.

L1064 Finch 041019

ALTA Environmental Corporation
RESIDENTIAL SAMPLING RECORD FORM

FILE NO. 1064
SAMPLING DATE: 4/4/19
FIELD PERSONNEL: B SPRAGUE

CLIENT: NSSC
PROJECT: POTABLE DW SAMPLING
LOCATION: GREENVILLE

WEATHER
Temp (deg F) <20 - 20 - 30 - 40 - 50 - 60 - 70 - 80 - 90 - >90

Sunny
Partly cloudy
Rain (Light/Heavy)
Sleet (Light/Heavy)
Snow (Light/Heavy)
Overcast
Heavy Clouds
Dry
Slightly humid
Mod. humid
Very humid

WIND CONDITIONS
None to Little
Mod. to Heavy
Little to Mod.
Steady
Variable
Direction From:_____

GROUND SURFACE CONDITIONS
Dry
Standing Water
Damp
Snow:_____ inches
Wet
Other:_____

WATER SAMPLING INFORMATION (a)

SAMPLE LOCATION/ DESIGNATION	SAMPLING LOCATION/ FLOWRATE & TIMES	SAMPLE DESCRIPTION/ COMMENTS	SAMPLING DEVICE	CONTAINERS
4 BB ROAD RAW	TIME Purging Started: 1235 Purging Stopped: 1250 Sample: 1254	PRESSURE TANK	GLOVED HAND	2 VOA
	TIME Purging Started: Purging Stopped: Sample:			
	TIME Purging Started: Purging Stopped: Sample:			
	TIME Purging Started: Purging Stopped: Sample:			
	TIME Purging Started: Purging Stopped: Sample:			
	TIME Purging Started: Purging Stopped: Sample:			

REMARKS:
DEL 1 - BLOSSMAN BANKSVILLE
UV LIGHT SYSTEM OPERATIONAL ONLY - NO VESSELS CONNECTED

Notes:
a. All non-disposable sampling devices are cleaned using the following sequence, unless otherwise noted: non-phosphate detergent wash, tap water rinse, methanol wipe or rinse, distilled or deionized water rinse, paper towel or air dry.

PHOENIX
Environmental Laboratories, Inc.

Tuesday, April 09, 2019

Attn: Mr. Brian Straub
ALTA Environmental
121 Broadway
Colchester, CT 06415

Project ID: NSSC GREENWICH
SDG ID: GCC89174
Sample ID#s: CC89174

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

April 09, 2019

SDG I.D.: GCC89174

Project ID: NSSC GREENWICH

Client Id	Lab Id	Matrix
4 BB ROAD RAW	CC89174	GROUND WATER

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 09, 2019

FOR: Attn: Mr. Brian Straub
ALTA Environmental
121 Broadway
Colchester, CT 06415

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		04/04/19	12:54
Location Code:	ALTAENV	Received by:	B	04/04/19	18:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	1064				

Laboratory Data

SDG ID: GCC89174
Phoenix ID: CC89174

Project ID: NSSC GREENWICH
Client ID: 4 BB ROAD RAW

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1,1-Trichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1,2-Trichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1,2-Trichlorotrifluoroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	1
1,1-Dichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1-Dichloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1-Dichloropropene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2,3-Trichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2,3-Trichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2,4-Trichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2-Dichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2-Dichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2-Dichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,3-Dichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,3-Dichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,3-Dichloropropene	ND	0.40	ug/L	1	04/08/19	JLI	E524.2	
1,4-Dichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
2,2-Dichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
2-Chlorotoluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
4-Chlorotoluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
Benzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
Bromobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
Bromochloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	

Project ID: NSSC GREENWICH
Client ID: 4 BB ROAD RAW

Phoenix I.D.: CC89174

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromodichloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Bromoform	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Bromomethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Carbon tetrachloride	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chloroform	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
cis-1,2-Dichloroethene	0.97	0.50	ug/L	1	04/08/19	JLI	E524.2
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/08/19	JLI	E524.2
Dibromochloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Dibromomethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Dichlorodifluoromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Ethylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Hexachlorobutadiene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Isopropylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
m&p-Xylene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Methyl t-butyl ether (MTBE)	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Methylene chloride	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Naphthalene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
n-Butylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
n-Propylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
o-Xylene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
p-Isopropyltoluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
sec-Butylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Styrene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
tert-Butylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Tetrachloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Toluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Total Trihalomethanes	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Total Xylenes	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/08/19	JLI	E524.2
Trichloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Trichlorofluoromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Vinyl chloride	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	04/08/19	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	04/08/19	JLI	70 - 130 %
Volatile Library Search	Completed				04/09/19	JLI	

Project ID: NSSC GREENWICH
Client ID: 4 BB ROAD RAW

Phoenix I.D.: CC89174

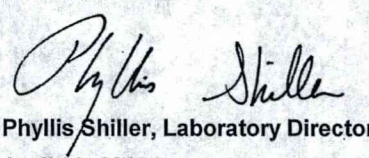
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
April 09, 2019
Reviewed and Released by: Rashmi Makol, Project Manager

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: 4 BB ROAD RAW

Lab Name: Phoenix Environmental Labs Client: ALTAENV

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCC89174

Matrix:(soil/water) WATER Lab Sample ID: CC89174

Sample wt/vol: 5 (g/mL) mL Lab File ID: 0408_19.D

Level: (low/med) Date Received: 04/04/19

% Moisture: not dec. 100 Date Analyzed: 04/08/19

GC Column: rtx-vms ID: 0.18 (mm) Dilution Factor: 1

Purge Volume 5000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

April 09, 2019

QA/QC Data

SDG I.D.: GCC89174

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 473987 (ug/L), QC Sample No: CC81946 (CC89174)										
Volatiles - Ground Water										
1,1,1,2-Tetrachloroethane	ND	0.50	94	102	8.2				70 - 130	30
1,1,1-Trichloroethane	ND	0.50	92	97	5.3				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	94	102	8.2				70 - 130	30
1,1,2-Trichloroethane	ND	0.50	91	95	4.3				70 - 130	30
1,1-Dichloroethane	ND	0.50	93	100	7.3				70 - 130	30
1,1-Dichloroethene	ND	0.50	89	98	9.6				70 - 130	30
1,1-Dichloropropene	ND	0.40	92	98	6.3				70 - 130	30
1,2,3-Trichlorobenzene	ND	0.50	92	101	9.3				70 - 130	30
1,2,3-Trichloropropane	ND	0.50	90	96	6.5				70 - 130	30
1,2,4-Trichlorobenzene	ND	0.50	94	99	5.2				70 - 130	30
1,2,4-Trimethylbenzene	ND	0.50	93	101	8.2				70 - 130	30
1,2-Dichlorobenzene	ND	0.50	93	99	6.3				70 - 130	30
1,2-Dichloroethane	ND	0.50	94	98	4.2				70 - 130	30
1,2-Dichloropropane	ND	0.50	94	99	5.2				70 - 130	30
1,3,5-Trimethylbenzene	ND	0.50	91	99	8.4				70 - 130	30
1,3-Dichlorobenzene	ND	0.50	93	101	8.2				70 - 130	30
1,3-Dichloropropane	ND	0.50	93	99	6.3				70 - 130	30
1,4-Dichlorobenzene	ND	0.50	95	100	5.1				70 - 130	30
2,2-Dichloropropane	ND	0.50	94	104	10.1				70 - 130	30
2-Chlorotoluene	ND	0.50	90	98	8.5				70 - 130	30
4-Chlorotoluene	ND	0.50	96	101	5.1				70 - 130	30
Benzene	ND	0.50	95	102	7.1				70 - 130	30
Bromobenzene	ND	0.50	89	97	8.6				70 - 130	30
Bromochloromethane	ND	0.50	95	100	5.1				70 - 130	30
Bromodichloromethane	ND	0.50	97	102	5.0				70 - 130	30
Bromoform	ND	0.50	94	100	6.2				70 - 130	30
Bromomethane	ND	0.50	99	115	15.0				70 - 130	30
Carbon tetrachloride	ND	0.50	91	95	4.3				70 - 130	30
Chlorobenzene	ND	0.50	95	101	6.1				70 - 130	30
Chloroethane	ND	0.50	94	104	10.1				70 - 130	30
Chloroform	ND	0.50	97	106	8.9				70 - 130	30
Chloromethane	ND	0.50	93	101	8.2				70 - 130	30
cis-1,2-Dichloroethene	ND	0.50	93	102	9.2				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	93	100	7.3				70 - 130	30
Dibromochloromethane	ND	0.50	98	103	5.0				70 - 130	30
Dibromomethane	ND	0.50	92	100	8.3				70 - 130	30
Dichlorodifluoromethane	ND	0.50	96	106	9.9				70 - 130	30
Ethylbenzene	ND	0.50	91	100	9.4				70 - 130	30
Hexachlorobutadiene	ND	0.40	96	101	5.1				70 - 130	30
Isopropylbenzene	ND	0.50	92	100	8.3				70 - 130	30
m&p-Xylene	ND	0.50	92	100	8.3				70 - 130	30

QA/QC Data

SDG I.D.: GCC89174

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Methyl t-butyl ether (MTBE)	ND	0.50	97	103	6.0				70 - 130	30
Methylene chloride	ND	0.50	87	98	11.9				70 - 130	30
Naphthalene	ND	0.50	94	100	6.2				70 - 130	30
n-Butylbenzene	ND	0.50	94	101	7.2				70 - 130	30
n-Propylbenzene	ND	0.50	90	99	9.5				70 - 130	30
o-Xylene	ND	0.50	96	103	7.0				70 - 130	30
p-Isopropyltoluene	ND	0.50	94	101	7.2				70 - 130	30
sec-Butylbenzene	ND	0.50	95	104	9.0				70 - 130	30
Styrene	ND	0.50	92	99	7.3				70 - 130	30
tert-Butylbenzene	ND	0.50	93	101	8.2				70 - 130	30
Tetrachloroethene	ND	0.50	89	100	11.6				70 - 130	30
Toluene	ND	0.50	92	99	7.3				70 - 130	30
trans-1,2-Dichloroethene	ND	0.50	94	102	8.2				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	90	95	5.4				70 - 130	30
Trichloroethene	ND	0.50	94	102	8.2				70 - 130	30
Trichlorofluoromethane	ND	0.50	84	90	6.9				70 - 130	30
Trichlorotrifluoroethane	ND	0.50	85	92	7.9				70 - 130	30
Vinyl chloride	ND	0.50	90	97	7.5				70 - 130	30
% 1,2-dichlorobenzene-d4	92	%	102	104	1.9				70 - 130	30
% Bromofluorobenzene	96	%	97	99	2.0				70 - 130	30

Comment:

This batch consists of a blank, LCS and LCSD.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
April 09, 2019

Tuesday, April 09, 2019

Criteria: CT: GAM, GWP, SWP

State: NY

Sample Criteria Exceedances Report

GCC89174 - ALTAENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** ALTA Environmental

Project Location: NSSC GREENWICH ***Project Number:***

Laboratory Sample ID(s): CC89174 ***Sampling Date(s):*** 4/4/2019

List RCP Methods Used (e.g., 8260, 8270, et cetera) None

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

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

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.

Authorized Signature: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Tuesday, April 09, 2019

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

April 09, 2019

SDG I.D.: GCC89174

SDG Comments

The client requested volatiles by 524.2. The RCP narrative is provided at the request of the client.

VOA-524

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM21 04/08/19-1 Jane Li, Chemist 04/08/19

CC89174

Initial Calibration Evaluation (CHEM21/524_040719):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

524 Method Continuing Calibration Verification (CHEM21/0408_03-524_040719):
Internal standard areas were within 70-130% of the initial calibration with the following exceptions: None.
100% of the target compounds met criteria. The following compounds did not meet minimum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 473987 (CC81946)

CC89174

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
This batch consists of a blank, LCS and LCSD.

Temperature Narration

The samples were received at 3.2C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

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NY Temperature Narration

April 09, 2019

SDG I.D.: GCC89174

The samples were received at 3.2C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☑ No ☐

CHAIN OF CUSTODY RECORD

Temp 3.7 °C Pg 1 of 1

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Fax:
☐ Phone: (860) 659-6505
☐ Email: BKLAN@ALPHAENV.COM

Customer: ALPHA ENVIRONMENTAL CORP
Address: 21 BROADWAY
COLCHESTER CT 06415

Project: NSSC GENERATOR
Report to: BRIAN STRAUB
Invoice to: BRIAN STRAUB

Project P.O: 1064

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Brian Straub Date: 4/4/19

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request: VOCs By 524.2	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
89174	4 BK Road RAW	GW	4/4/19	1254	X				2						

Relinquished by: Brian Straub **Accepted by:** Kayla Nicel **Date:** 4/4/19 **Time:** 1624

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☑ RCP Cert
☑ GW Protection
☐ SW Protection
☑ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

State where samples were collected: NY

Data Format
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

ALTA ENVIRONMENTAL CORPORATION
LABORATORY DATA QUALITY ASSURANCE/DATA USABILITY EVALUATION FORM

Laboratory Report Number: ~~CTL~~ PHOENIX GCC 89174

Instructions: Use check mark or "Y" for Yes; N for "No", NA for not applicable; circle and annotate as warranted.

Data Quality Assessment (DQA): General

Was the Laboratory Certification Form (LCF): received? Y; signed? Y; dated? Y;
with Chain of Custody attached? Y; with all questions answered? Y;
and indicating Reasonable Confidence was attained? Y.

Were any significant non-conformances indicated with respect to sample temperature, preservation or holding time? N

DQA: Laboratory Report Package

Were results reported for all analyses requested? Y (Note: PM to track this as draft lab reports arrive)
Were reporting limits (RLs) requested on chain and indicated in report? ✓Yes; __No
Are concentrations reported only above RLs and are RLs below pertinent RSR criteria (spot check)? Y
Are results reported on a dry-weight basis (spot check)? __Yes; ✓NA (e.g., water samples)
Were any dilutions factors (DFs) > 1 used? N If so, are RLs below pertinent RSR criteria, or detections for one or more compounds above criterion (spot ck)? NA
Were surrogate recoveries within range (spot check)? ✓Yes; __No; __NA
Were LCS data reported? ✓Yes; __No, and all within range? ✓Yes; __No; __NA
Were continuing calibration data reported? __Yes; ✓No, and all within range? __Yes; __No; ✓NA
Were data for lab blanks reported? __Yes; ✓No, and with ND results? __Yes; __No; ✓NA
Were data for matiix spike and/or matrix spike dupes reported? __Yes; ✓No,
If so, were the data within range? __Yes; __No; ✓NA
Was a narrative included regarding QC non-conformances? Y (If yes, address in DUE)

DQA: Site-Specific QA/QC

Were site-specific matrix spikes/matrix spike dupes. (MS/MSD) run? N; If no, address in DUE.
If yes, were recoveries within accepted range? __Yes; __Yes, with exceptions (address in DUE); ✓NA.
Was RPD w/in. accept. range? ____ (<50% RPD for solids; <30% RPD for aqu.); If no, address in DUE; ✓NA.

Were the following run? equipment blanks N, trip blanks N, other blanks N.
If yes, were any contaminants detected? NA If contamination was detected and/or if these blanks were not run, address in DUE.

Were field duplicates run? N If yes, was RPD within accepted range? NA
(<50% RPD for solids; <30% RPD for aqueous); If no, address in Data Usability Evaluation

DQA: Explanations and Notes

Lab #: PHOENIX GCC 89174

Data Usability Evaluation (DUE): Intended Use of the Data

The data are intended for determining compliance with the RSRs __ (check to acknowledge), except if noted otherwise below: SCREENING FOR POTABLE DRINKING H2O SYSTEM

DUE: Site-Specific QA/QC

If equipment blanks, trip blanks and/or field blanks were not run, any contamination reported for environmental samples is conservatively assumed to derive from the media sampled (i.e., not from cross contamination) ✓ (check to acknowledge), or is in whole or in part attributed to lab contamination (e.g., as associated with detections in lab blanks) ___ (check to acknowledge and explain further)

If field duplicates were not run, the lack of such data for this laboratory package does not adversely affect the usability of the data for its intended purpose, due to the amount and internal consistency of the testing data available for the site (including the available non-project-specific QC data and project-specific QC data that may be available for other samples collected from this site) ✓ (check to acknowledge);
Were field duplicate samples collected for other sampling events at this site? ✓ Yes; ___ No

DUE: Narrative

Evaluation of Common Narrative Comments: (check/circle and annotate as pertinent)

Question No. 4: Addressed in narrative? __ Yes; ✓ No

If yes, some of the QA/QC performance criteria specified in the DEP Reasonable Confidence Protocol documents were not achieved for certain compounds in certain batches of soil samples, and:

A. Laboratory control sample (LCS), MS, MS dupe and/or continuing calibration (CC) is/are high for certain COCs; therefore the results for these compounds may be biased high.
___ Yes (conservative, OK)

B. LCS, MS, MS dupe and/or CC is/are low for certain compounds; therefore the results for these compounds may be biased low. ___ Yes (provide additional information below for each such compound); ___ No

- Of these, based on review of the totality of the soil and/or groundwater quality data available for the site, the compounds listed here are not constituents of concern (COCs) for this site. Therefore, not achieving the QA/QC performance criteria associated with these compounds does not adversely affect the usability of the data for its intended purpose.
__ check to acknowledge and list compounds here.

- Of these, the compounds listed here are on the list of "Poorly Performing Compounds" (PPCs), in Appendix F to the DEP QA/QC DQA and DUE Guidance Document (May 2009) __ check to acknowledge and list compounds here (may also be listed above);

Provide additional usability information for COCs with possible low bias.
___ (check if NA)

Lab #: PHOENIX GCC 89174

Question No. 6: Addressed in narrative? __Yes; ✓No

If yes, analysis for subsets of the method-specific analyte lists were requested based on the site-specific Conceptual Site Model developed by the Project Manager. Use of site-specific analytes does not adversely affect the usability of the reported data for its intended purpose.
__(check to acknowledge)

Question No. 7: Addressed in narrative? __Yes; ✓No

If yes, project-specific QC testing was not requested (i.e., MS/MSD). Given the amount and internal consistency of the testing data available for the site, the lack of such data for this laboratory package does not adversely affect the usability of the data for its intended purpose.
__(check to acknowledge)

Other Questions addressed in narrative? ___ Yes; ✓No (provide additional information below)

DUE: Other Notes (e.g., for contamination associated with lab blanks and LCF questions answered "No")

DUE: Conclusions

The data in this package are usable for their intended purpose

✓Yes ___No

___Yes, with possible exceptions:

(initial and date): BAS 4/10/19

Resolutions (e.g., for possible exceptions)

(initial and date): _____ _____