

**NHDES Waste Management Division
29 Hazen Drive; PO Box 95
Concord, New Hampshire 03302-0095**

UNDERGROUND STORAGE TANK CLOSURE REPORT

**SINGH MART
125 WEST ROAD
CANTERBURY, NEW HAMPSHIRE
NHDES #199306030
UST FACILITY #0110079**

Prepared For:
Falcon Petroleum, LLC
PO Box 522
Millerton, New York 12546
(518) 789-0051
Contact: Lauren Simons
Email: lauren66simons@gmail.com

Prepared By:
GeoInsight, Inc.
186 Granite Street, 3rd Floor, Suite A
Manchester, New Hampshire 03101
(603) 314-0820
Contact: Peter D. Frank, P.G.
Email: pdfrank@geoinc.com

March 3, 2020
GeoInsight Project 9363-000

March 3, 2020

GeoInsight Project 9363-000

NHDES – ORCB
Underground Storage Tank Section
29 Hazen Drive, P.O Box 0095
Concord, NH 03302-0095

RE: Underground Storage Tank Closure Report
Singh Mart
125 West Road
Canterbury, New Hampshire
NHDES #199306030

Dear Ms. Simons:

At your request, GeoInsight, Inc. (GeoInsight) coordinated the decommissioning of a diesel fuel oil underground storage tank (UST) system and prepared this UST Closure report for the property located at 125 West Road in Canterbury, New Hampshire (the site). A Site Locus map is included as Figure 1. GeoInsight oversaw the in-place closure of one 8,000-gallon composite UST formerly used to store diesel fuel at the site. The tank was not removed from the subsurface due to the proximity to the site building, an active UST system, and other underground structures. According to the New Hampshire Department of Environmental Services (NHDES) Onestop database, this diesel tank has not been operated since 2011. The UST closure activities were performed in general accordance with applicable NHDES regulations. Photographs of the UST closure are presented in Attachment A.

SITE AND UNDERGROUND STORAGE TANK INFORMATION

The site is located at 125 West Road in Canterbury, New Hampshire and formerly operated as a Sunoco and Gulf Gas Station and convenience store. Retail fuel sales and the convenience store were not in operation at the time of tank closure. The site is served by a drilled bedrock water supply well and an on-site septic system. The UST is located on the west side of the property, south of the convenience store, and west of the pump-island canopy (Figure 2).

Reportedly, the 8,000-gallon composite UST used to store diesel fuel was installed in 1991. The diesel fuel UST was out of service at the time of decommissioning.



On October 18, 2019, the in-place closure was attempted by ACV Enviro (ACV) of Kingston, New Hampshire, but halted when a thin layer of gasoline was encountered floating on top of approximately 6 inches of water in the tank, which rendered the tank with an explosive condition. A liquid sample was collected from the tank and analyzed by an analytical laboratory to confirm these findings. A copy of the laboratory report is included in Attachment B.

On November 8, 2019, ACV disconnected the diesel piping from the dispenser and vacuumed the double-wall piping and the liquid present in the tank. A second in-place closure attempt was performed by ACV but could not be completed as they could not remove the explosive atmospheres to cut the tank open for access. On January 8, 2020, Clean Harbors Environmental Services, Inc. of Bow, New Hampshire cut and cleaned the UST. As iterated to the NHDES, the diesel piping from the tank to the dispenser and vent pipe were not removed due to the likely proximity of the piping adjacent to “live” in place piping. It is anticipated that the lines will be removed in 2020 at the time of system upgrade operations/activities.

The following is a summary of activities performed during the in-place closure of the UST:

- 10-18-19 mobilized to site, accessed 8,000-gallon diesel tank, and verified liquid contents of the tank;
- 11-8-19 vacuumed approximately 250 gallons of liquid from the tank and lines;
- 11-8-19 cut/removed a portion of concrete pad overlying the tank and excavated soil directly above the UST and attempted to cut open the tank for access;
- 11-8-19 collected a soil sample from beneath the tank sump (designated Sump [3']) and submitted to the analytical laboratory;
- 11-8-19 backfilled the excavation overlying the tank top;
- 1-8-20 excavated the tank top, purged the UST of volatile vapors, and cleaned the UST of residual fuel and solids;
- 1-8-20 cut through the bottom of the UST and collected soil samples from beneath the tank (designated Bottom N [12'] and Bottom S [12']); and
- 1-9-20 filled the UST and excavation with flowable concrete fill for in-place closure.

UNDERGROUND STORAGE TANK OBSERVATIONS

The 8,000-gallon composite UST measured approximately 8 feet in diameter by 21.5 feet in length and was situated approximately 3.5 feet below ground surface, 6 feet from the building. The interior of the UST was in good condition without pitting or corrosion observed. Associated double-wall product lines within a third corrugated line that were exposed were also noted in fair condition without evidence of deterioration. The soil surrounding the UST was noted as a dry, brown fine to coarse sand with gravel. Petroleum soil staining was not observed in the soil above the tank or in soil samples collected from beneath the UST. Photographs of the UST closure are presented in Attachment A.



FIELD SCREENING AND SAMPLING

Two soil samples collected from beneath the UST were screened in the field for total volatile organic compounds (VOCs) using a photoionization detector (PID). The PID was calibrated before use according to the manufacturer's specifications (i.e., using a 100 parts per million [ppm] isobutylene and air mixture and adjusting the instrument with a reference factor to provide readings in ppm as benzene). The discrete soil samples (designated "Bottom N" and "Bottom S") were collected at a depth of 12 feet and yielded PID readings of 22.1 and 9.2 ppm, respectively. Refer to Figure 2 for the soil sample location.

Soil samples Sump (3') Bottom N (12') and Bottom S (12') were submitted to Absolute Resource Associates, LLC of Portsmouth, New Hampshire for analyses of VOCs, polycyclic aromatic hydrocarbons (PAHs), and total petroleum hydrocarbons (TPH) as diesel range organics (DRO) by United States Environmental Protection Agency (USEPA) Methods 8260D, 8270E, and 8015, respectively.

Groundwater was not encountered during the UST closure activities; therefore, a groundwater sample was not collected.

LABORATORY RESULTS

VOCs, PAHs, and TPH-DRO were not detected above laboratory practical quantitation limits (PQLs) in the soil samples collected from beneath the sump and closed in-place UST. A copy of the laboratory analytical report is included as Attachment B.

CONCLUSIONS AND RECOMMENDATIONS

The discrete soil samples collected during the UST closure activities yielded low PID readings and the three soil samples collected did not contain VOCs, PAHs, and TPH-DRO above laboratory PQLs. Petroleum-stained soil was not identified in soil overlying the UST or in the soil samples collected below the UST. Based upon the work performed, field observations, and laboratory analytical results, it does not appear that the UST released petroleum hydrocarbons to the subsurface and additional subsurface investigation associated with the UST is not warranted.

An UST System Construction Plan was approved by the NHDES on January 16, 2020. As part of the site redevelopment to be performed, a new 4,000-gallon UST system will be installed. At the time of planned system upgrades in 2020, GeoInsight recommends completing the diesel piping removal and sampling associated with the former 8,000-gallon UST.

LIMITATIONS AND EXCEPTIONS

GeoInsight performed the activities described herein in a manner generally consistent with the level of care and skill ordinarily exercised by other environmental consultants engaged for similar services under similar circumstances. Accordingly, the findings and conclusions of this report do not constitute scientific certainties, but rather probabilities based upon our professional



judgment concerning data gathered during the course of the assessment and the use of engineering and scientific principles. GeoInsight cannot represent that the site does not contain hazardous materials or other latent environmental conditions beyond those detected or observed by GeoInsight during this assessment. Should additional information regarding the site become available in the future that is inconsistent with the findings presented herein, the findings of this report should be re-evaluated by GeoInsight or another qualified environmental professional in light of the additional information. To the extent that the interpretations and findings presented in this letter report are based in whole, or in part, upon information and representations in reports prepared by others, they are contingent upon the validity of the information.

If you have questions regarding this UST Closure report, please feel free to call us at (603) 314-0820.

Sincerely,
GEOINSIGHT, INC.



James E. Blackwell
Project Geologist
ICC # 8340883



Peter D. Frank, P.G.
Associate/Senior Hydrogeologist

Attachments

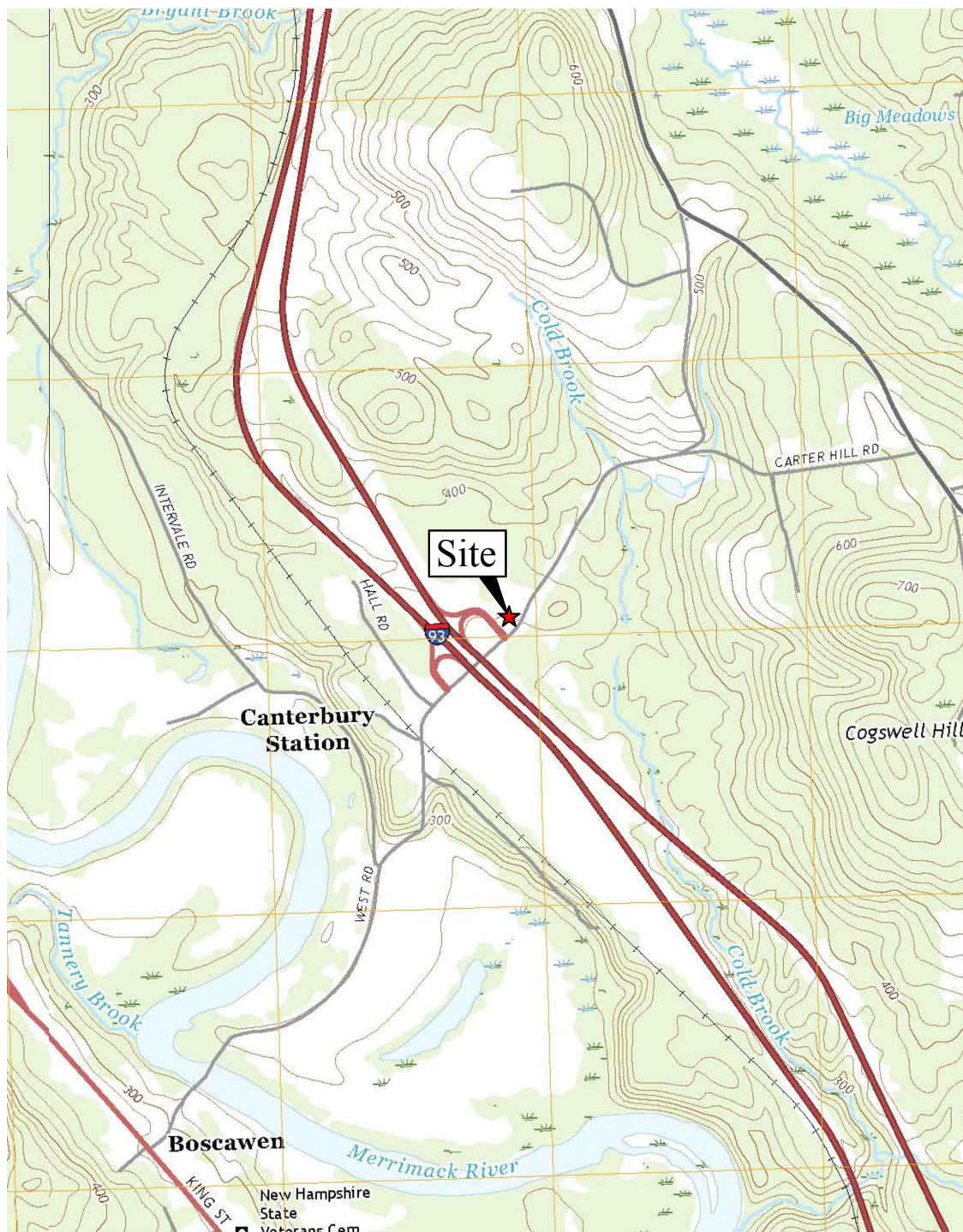
cc: Lauren Simons, Falcon Petroleum, LLC

p:\9363 canterbury\ust abandonment\9363 ust abandonemnt report.doc



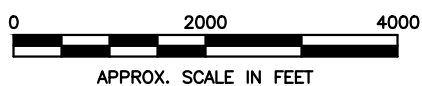
FIGURES





SOURCE:

USGS PENACOOK, NH TOPOGRAPHIC
QUADRANGLE 2018
CONTOUR INTERVAL: 20 FEET

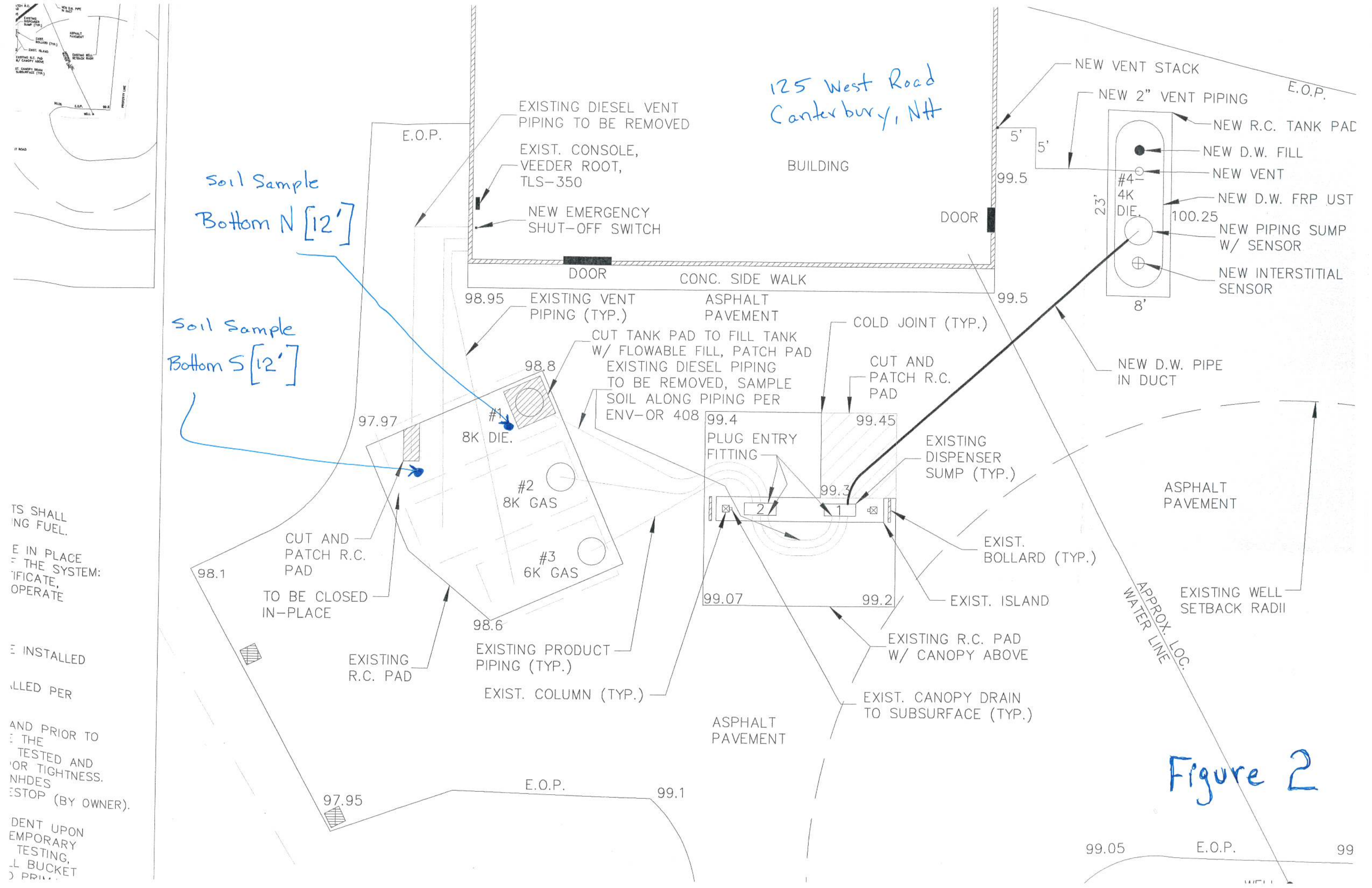


CLIENT: FALCON PETROLEUM LLC			
PROJECT: 125 WEST ROAD CANTERBURY, NEW HAMPSHIRE			
TITLE: SITE LOCUS			
DESIGNED: PDF	DRAWN: STM	CHECKED: PDF	APPROVED: PDF
SCALE: 1" = 2000'	DATE: 02/14/20	FILE NO.: 9363-LOCUS	PROJECT NO.: 9363-000



FIGURE NO.:

1



125 West Road
Canterbury, NH

Soil Sample
Bottom N [12']

Soil Sample
Bottom S [12']

Figure 2

TS SHALL
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E IN PLACE
= THE SYSTEM:
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) PRI...



ATTACHMENT A
UST CLOSURE PHOTOGRAPHS



**8,000-GALLON DIESEL UST CLOSURE
125 WEST ROAD
CANTERBURY, NEW HAMPSHIRE**



1. 8,000-gallon diesel UST prior to excavation November 8, 2019.



2. 8,000-gallon diesel UST exposed, sump removed November 8, 2019.

**8,000-GALLON DIESEL UST CLOSURE
125 WEST ROAD
CANTERBURY, NEW HAMPSHIRE**



3. Top of UST backfilled for safety on November 8, 2019.



4. Tank cut open and entered on January 8, 2020.

**8,000-GALLON DIESEL UST CLOSURE
125 WEST ROAD
CANTERBURY, NEW HAMPSHIRE**



5. 8,000-gallon diesel UST cleaning on January 8, 2020.



6. Flowable fill being placed in cleaned/sampled UST January 9, 2020.

**8,000-GALLON DIESEL UST CLOSURE
125 WEST ROAD
CANTERBURY, NEW HAMPSHIRE**



7. 8,000-gallon diesel UST filled with flowable concrete fill on January 9, 2020.



ATTACHMENT B

LABORATORY ANALYTICAL REPORTS



Laboratory Report



Absolute Resource *associates*

124 Heritage Avenue Portsmouth NH 03801

Peter Frank
GeolInsight, Inc.
186 Granite Street
3rd Floor, Suite A
Manchester, NH 03103

PO Number: None
Job ID: 51714
Date Received: 1/9/20

Project: Canterbury 9363

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

Jennifer Lowe (for)

Jennifer Lowe
Laboratory Manager

Date of Approval: 1/16/2020
Total number of pages: 11

Absolute Resource Associates Certifications

New Hampshire 1732
Maine NH902

Massachusetts M-NH902

Project ID: Canterbury 9363

Job ID: 51714

Sample#: 51714-001

Sample ID: Bottom N (12')

Matrix: Solid

Percent Dry: 90.5% Results expressed on a dry weight basis.

Sampled: 1/8/20 17:00

Parameter	Reporting		Units	Instr Dil'n	Prep		Analysis			Reference
	Result	Limit			Analyst	Date	Batch	Date	Time	
dichlorodifluoromethane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
chloromethane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
vinyl chloride	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
bromomethane	< 0.23	0.23	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
chloroethane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
trichlorofluoromethane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
diethyl ether	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
acetone	< 2.3	2.3	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,1-dichloroethene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
methylene chloride	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
carbon disulfide	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
methyl t-butyl ether (MTBE)	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
trans-1,2-dichloroethene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
isopropyl ether (DIPE)	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
ethyl t-butyl ether (ETBE)	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,1-dichloroethane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
t-butanol (TBA)	< 2.3	2.3	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
2-butanone (MEK)	< 0.28	0.28	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
2,2-dichloropropane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
cis-1,2-dichloroethene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
chloroform	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
bromochloromethane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
tetrahydrofuran (THF)	< 0.47	0.47	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,1,1-trichloroethane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,1-dichloropropene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
t-amyl-methyl ether (TAME)	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
carbon tetrachloride	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,2-dichloroethane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
benzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
trichloroethene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,2-dichloropropane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
bromodichloromethane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,4-dioxane	< 2.3	2.3	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
dibromomethane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
4-methyl-2-pentanone (MIBK)	< 0.42	0.42	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
cis-1,3-dichloropropene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
toluene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
trans-1,3-dichloropropene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
2-hexanone	< 0.47	0.47	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,1,2-trichloroethane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,3-dichloropropane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
tetrachloroethene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
dibromochloromethane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D

Project ID: Canterbury 9363

Job ID: 51714

Sample#: 51714-001

Sample ID: Bottom N (12')

Matrix: Solid

Percent Dry: 90.5% Results expressed on a dry weight basis.

Sampled: 1/8/20 17:00

Parameter	Reporting		Units	Instr Dil'n	Prep		Analysis			Reference
	Result	Limit			Analyst	Date	Batch	Date	Time	
1,2-dibromoethane (EDB)	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
chlorobenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,1,1,2-tetrachloroethane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
ethylbenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
m&p-xylenes	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
o-xylene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
styrene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
bromoform	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
isopropylbenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,1,2,2-tetrachloroethane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,2,3-trichloropropane	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
n-propylbenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
bromobenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,3,5-trimethylbenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
2-chlorotoluene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
4-chlorotoluene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
tert-butylbenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,2,4-trimethylbenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
sec-butylbenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,3-dichlorobenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
4-isopropyltoluene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,4-dichlorobenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,2-dichlorobenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
n-butylbenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,2-dibromo-3-chloropropane (DBCP)	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,2,4-trichlorobenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,3,5-trichlorobenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
hexachlorobutadiene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
naphthalene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
1,2,3-trichlorobenzene	< 0.094	0.094	ug/g	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
Surrogate Recovery	Limits									
dibromofluoromethane SUR	98	78-114	%	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
toluene-D8 SUR	100	88-110	%	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
4-bromofluorobenzene SUR	94	86-115	%	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D
a,a,a-trifluorotoluene SUR	109	70-130	%	1	LMM	1/13/20	12372	1/15/20	18:36	SW5035A8260D

Project ID: Canterbury 9363

Job ID: 51714

Sample#: 51714-002

Sample ID: Bottom S (12')

Matrix: Solid

Percent Dry: 94.5% Results expressed on a dry weight basis.

Sampled: 1/8/20 17:10

Parameter	Reporting		Units	Instr Dil'n	Prep		Analysis			Reference
	Result	Limit			Analyst	Date	Batch	Date	Time	
dichlorodifluoromethane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
chloromethane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
vinyl chloride	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
bromomethane	< 0.22	0.22	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
chloroethane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
trichlorofluoromethane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
diethyl ether	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
acetone	< 2.2	2.2	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,1-dichloroethene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
methylene chloride	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
carbon disulfide	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
methyl t-butyl ether (MTBE)	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
trans-1,2-dichloroethene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
isopropyl ether (DIPE)	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
ethyl t-butyl ether (ETBE)	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,1-dichloroethane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
t-butanol (TBA)	< 2.2	2.2	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
2-butanone (MEK)	< 0.27	0.27	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
2,2-dichloropropane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
cis-1,2-dichloroethene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
chloroform	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
bromochloromethane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
tetrahydrofuran (THF)	< 0.45	0.45	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,1,1-trichloroethane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,1-dichloropropene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
t-amyl-methyl ether (TAME)	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
carbon tetrachloride	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,2-dichloroethane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
benzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
trichloroethene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,2-dichloropropane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
bromodichloromethane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,4-dioxane	< 2.2	2.2	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
dibromomethane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
4-methyl-2-pentanone (MIBK)	< 0.40	0.40	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
cis-1,3-dichloropropene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
toluene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
trans-1,3-dichloropropene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
2-hexanone	< 0.45	0.45	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,1,2-trichloroethane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,3-dichloropropane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
tetrachloroethene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
dibromochloromethane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D

Project ID: Canterbury 9363

Job ID: 51714

Sample#: 51714-002

Sample ID: Bottom S (12')

Matrix: Solid

Percent Dry: 94.5% Results expressed on a dry weight basis.

Sampled: 1/8/20 17:10

Parameter	Reporting		Units	Instr Dil'n	Prep		Analysis			Reference
	Result	Limit			Analyst	Date	Batch	Date	Time	
1,2-dibromoethane (EDB)	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
chlorobenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,1,1,2-tetrachloroethane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
ethylbenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
m&p-xylenes	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
o-xylene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
styrene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
bromoform	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
isopropylbenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,1,2,2-tetrachloroethane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,2,3-trichloropropane	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
n-propylbenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
bromobenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,3,5-trimethylbenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
2-chlorotoluene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
4-chlorotoluene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
tert-butylbenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,2,4-trimethylbenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
sec-butylbenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,3-dichlorobenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
4-isopropyltoluene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,4-dichlorobenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,2-dichlorobenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
n-butylbenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,2-dibromo-3-chloropropane (DBCP)	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,2,4-trichlorobenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,3,5-trichlorobenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
hexachlorobutadiene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
naphthalene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
1,2,3-trichlorobenzene	< 0.089	0.089	ug/g	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
Surrogate Recovery	Limits									
dibromofluoromethane SUR	94	78-114	%	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
toluene-D8 SUR	100	88-110	%	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
4-bromofluorobenzene SUR	93	86-115	%	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D
a,a,a-trifluorotoluene SUR	109	70-130	%	1	LMM	1/13/20	12372	1/15/20	19:02	SW5035A8260D

Project ID: Canterbury 9363

Job ID: 51714

Sample#: 51714-003

Sample ID: Trip Blank

Matrix: Solid

Sampled: 1/8/20 0:00

Parameter	Reporting		Units	Instr Dil'n	Prep		Analysis			Reference
	Result	Limit			Analyst	Date	Batch	Date	Time	
dichlorodifluoromethane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
chloromethane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
vinyl chloride	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
bromomethane	< 0.25	0.25	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
chloroethane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
trichlorofluoromethane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
diethyl ether	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
acetone	< 2.5	2.5	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,1-dichloroethene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
methylene chloride	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
carbon disulfide	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
methyl t-butyl ether (MTBE)	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
trans-1,2-dichloroethene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
isopropyl ether (DIPE)	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
ethyl t-butyl ether (ETBE)	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,1-dichloroethane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
t-butanol (TBA)	< 2.5	2.5	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
2-butanone (MEK)	< 0.30	0.30	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
2,2-dichloropropane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
cis-1,2-dichloroethene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
chloroform	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
bromochloromethane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
tetrahydrofuran (THF)	< 0.50	0.50	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,1,1-trichloroethane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,1-dichloropropene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
t-amyl-methyl ether (TAME)	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
carbon tetrachloride	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,2-dichloroethane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
benzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
trichloroethene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,2-dichloropropane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
bromodichloromethane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,4-dioxane	< 2.5	2.5	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
dibromomethane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
4-methyl-2-pentanone (MIBK)	< 0.45	0.45	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
cis-1,3-dichloropropene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
toluene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
trans-1,3-dichloropropene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
2-hexanone	< 0.50	0.50	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,1,2-trichloroethane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,3-dichloropropane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
tetrachloroethene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
dibromochloromethane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D

Project ID: Canterbury 9363

Job ID: 51714

Sample#: 51714-003

Sample ID: Trip Blank

Matrix: Solid

Sampled: 1/8/20 0:00

Parameter	Reporting		Units	Instr Dil'n	Prep		Analysis			Reference
	Result	Limit			Analyst	Date	Batch	Date	Time	
1,2-dibromoethane (EDB)	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
chlorobenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,1,1,2-tetrachloroethane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
ethylbenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
m&p-xylenes	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
o-xylene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
styrene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
bromoform	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
isopropylbenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,1,2,2-tetrachloroethane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,2,3-trichloropropane	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
n-propylbenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
bromobenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,3,5-trimethylbenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
2-chlorotoluene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
4-chlorotoluene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
tert-butylbenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,2,4-trimethylbenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
sec-butylbenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,3-dichlorobenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
4-isopropyltoluene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,4-dichlorobenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,2-dichlorobenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
n-butylbenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,2-dibromo-3-chloropropane (DBCP)	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,2,4-trichlorobenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,3,5-trichlorobenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
hexachlorobutadiene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
naphthalene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
1,2,3-trichlorobenzene	< 0.10	0.10	ug/g	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
Surrogate Recovery	Limits									
dibromofluoromethane SUR	96	78-114	%	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
toluene-D8 SUR	100	88-110	%	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
4-bromofluorobenzene SUR	101	86-115	%	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D
a,a,a-trifluorotoluene SUR	113	70-130	%	1	LMM	1/13/20	12372	1/15/20	12:56	SW5035A8260D

Project ID: Canterbury 9363

Job ID: 51714

Sample#: 51714-001

Sample ID: Bottom N (12')

Matrix: Solid Percent Dry: 90.5% Results expressed on a dry weight basis.

Sampled: 1/8/20 17:00

Parameter	Reporting		Units	Instr Dil'n	Factor	Prep		Analysis			Reference
	Result	Limit				Analyst	Date	Batch	Date	Time	
naphthalene	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
2-methylnaphthalene	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
acenaphthylene	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
acenaphthene	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
dibenzofuran	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
fluorene	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
phenanthrene	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
anthracene	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
fluoranthene	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
pyrene	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
benzo(a)anthracene	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
chrysene	< 0.41	0.41	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
benzo(b)fluoranthene	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
benzo(k)fluoranthene	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
benzo(a)pyrene	< 0.41	0.41	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
indeno(1,2,3-cd)pyrene	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
dibenzo(a,h)anthracene	< 0.41	0.41	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
benzo(g,h,i)perylene	< 0.51	0.51	ug/g	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
Surrogate Recovery		Limits									
2-fluorobiphenyl SUR	81	43-116	%	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E
o-terphenyl SUR	81	33-141	%	1		CL	1/14/20	12378	1/14/20	19:51	SW3550C8270E

Project ID: Canterbury 9363

Job ID: 51714

Sample#: 51714-002

Sample ID: Bottom S (12')

Matrix: Solid Percent Dry: 94.5% Results expressed on a dry weight basis.

Sampled: 1/8/20 17:10

Parameter	Reporting		Units	Instr Dil'n	Factor	Prep		Analysis			Reference
	Result	Limit				Analyst	Date	Batch	Date	Time	
naphthalene	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
2-methylnaphthalene	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
acenaphthylene	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
acenaphthene	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
dibenzofuran	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
fluorene	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
phenanthrene	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
anthracene	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
fluoranthene	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
pyrene	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
benzo(a)anthracene	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
chrysene	< 0.39	0.39	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
benzo(b)fluoranthene	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
benzo(k)fluoranthene	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
benzo(a)pyrene	< 0.39	0.39	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
indeno(1,2,3-cd)pyrene	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
dibenzo(a,h)anthracene	< 0.39	0.39	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
benzo(g,h,i)perylene	< 0.49	0.49	ug/g	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
Surrogate Recovery		Limits									
2-fluorobiphenyl SUR	87	43-116	%	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E
o-terphenyl SUR	86	33-141	%	1		CL	1/14/20	12378	1/14/20	20:20	SW3550C8270E

Project ID: Canterbury 9363

Job ID: 51714

Sample#: 51714-001

Sample ID: Bottom N (12')

Matrix: Solid Percent Dry: 90.5% Results expressed on a dry weight basis.

Sampled: 1/8/20 17:00

Parameter	Result	Reporting	Units	Instr Dil'n	Analyst	Prep	Analysis			Reference
		Limit				Date	Batch	Date	Time	
Diesel Range Organics (DRO) C10-C28	< 100	100	ug/g	1	ACA	1/14/20	12377	1/14/20	18:35	SW3550C8015D
Surrogate Recovery		Limits								
2-fluorobiphenyl SUR	99	40-140	%	1	ACA	1/14/20	12377	1/14/20	18:35	SW3550C8015D
o-terphenyl SUR	99	40-140	%	1	ACA	1/14/20	12377	1/14/20	18:35	SW3550C8015D

Sample#: 51714-002

Sample ID: Bottom S (12')

Matrix: Solid Percent Dry: 94.5% Results expressed on a dry weight basis.

Sampled: 1/8/20 17:10

Parameter	Result	Reporting	Units	Instr Dil'n	Analyst	Prep	Analysis			Reference
		Limit				Date	Batch	Date	Time	
Diesel Range Organics (DRO) C10-C28	< 98	98	ug/g	1	ACA	1/14/20	12377	1/14/20	19:04	SW3550C8015D
Surrogate Recovery		Limits								
2-fluorobiphenyl SUR	101	40-140	%	1	ACA	1/14/20	12377	1/14/20	19:04	SW3550C8015D
o-terphenyl SUR	101	40-140	%	1	ACA	1/14/20	12377	1/14/20	19:04	SW3550C8015D



124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001

absoluteresourceassociates.com

**CHAIN-OF-CUSTODY RECORD
AND ANALYSIS REQUEST**

51714

ANALYSIS REQUEST

Company Name: GeoInsight Inc
Company Address: 186 Granite St. Suite 3A
Manchester, NH, 03101
Report To: Peter Frank
Phone #: 603 314 0820
Invoice to: _____
Email: _____
PO #: _____

Project Name: Canterbury
Project #: 9363
Project Location: NH MA ME VT _____
Accreditation Required? N/Y: _____
Protocol: RCRA SDWA NPDES
MCP NHDES DOD
Reporting QAPP GW-1 S-1
Limits: EPA DW Other _____
Quote # _____
☐ NH Reimbursement Pricing

☒ VOC 8260	☐ VOC 8260 NHDES	☐ VOC 8260 MADEP	☐ VOC 624.1	☐ VOC BTEX MBE, only	☐ VOC 8021VT	☐ VPH MADEP	☐ GRO 8015	☐ 1,4-Dioxane	☐ VOC 524.2	☐ NH List	☐ Gases-List:	☐ TPH	☐ QRO 8015	☐ EPH MADEP	☐ TPH Fingerprint	☒ 8270PAH	☐ 8270ABN	☐ 625.1	☐ ED8	☐ 8082 PCB	☐ 8081 Pesticides	☐ 608.3 Pest/PCB	☐ O&G 1664	☐ Mineral O&G 1664	☐ pH	☐ BOD	☐ Conductivity	☐ Turbidity	☐ Apparent Color	☐ TSS	☐ TDS	☐ TS	☐ TVS	☐ Alkalinity	☐ Acidity	☐ RCRA Metals	☐ Priority Pollutant Metals	☐ TAL Metals	☐ Hardness	☐ Total Metals-list:	☐ Dissolved Metals-list:	☐ Ammonia	☐ COD	☐ TKN	☐ TN	☐ TON	☐ TOC	☐ Ferrous Iron	☐ T-Phosphorus	☐ Bacteria P/A	☐ Bacteria MPN	☐ Enterococci	☐ Cyanide	☐ Sulfide	☐ Nitrate + Nitrite	☐ Ortho P	☐ Phenols	☐ Nitrate	☐ Nitrite	☐ Chloride	☐ Sulfate	☐ Bromide	☐ Fluoride	☐ Corrosivity	☐ Reactive CN	☐ Reactive S-	☐ Ignitibility/FP	☐ TCLP Metals	☐ TCLP VOC	☐ TCLP SVOC	☐ TCLP Pesticide	☐ Subcontract	☐ Grain Size	☐ Herbicides	☐ Asbestos	☐ PFAS	☐ Grab (G) or Composite (C)
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Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix			Preservation Method					Sampling		
			WATER	SOLID	OTHER	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	DATE	TIME	SAMPLER
51714-01	Bottom N (12')	2	✓							✓	1/8/20	17:00	JEB
-02	Bottom S (12')	2	✓							✓	1/8/20	17:10	JEB
-03	Trip Blank									✓			

TAT REQUESTED

Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard Geo ☒
(10 Business Days)
*Date Needed _____

See absoluteresourceassociates.com
for sample acceptance policy and
current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) pd.Frank@geoins.com
☐ HARD COPY REQUIRED ☐ EDD

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 2 °C

**CUSTODY
RECORD**

QSD-01 Revision 11/08/18

Relinquished by Sampler:	Date <u>1/9/20</u> Time _____	Received by:	Date <u>1/9</u> Time <u>2:30</u>
Relinquished by:	Date <u>1/9</u> Time <u>16:14</u>	Received by:	Date _____ Time _____
Relinquished by:	Date _____ Time _____	Received by Laboratory:	Date <u>1/9/20</u> Time <u>16:14</u>

Laboratory Report



Absolute Resource *associates*

124 Heritage Avenue Portsmouth NH 03801

Peter Frank
GeolInsight, Inc.
186 Granite Street
3rd Floor, Suite A
Manchester, NH 03103

PO Number: None
Job ID: 51180
Date Received: 11/13/19

Project: Canterbury 9363

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

A handwritten signature in black ink that reads "Jennifer Lowe". The signature is fluid and cursive, with the first name and last name clearly distinguishable.

Jennifer Lowe
Laboratory Manager

Date of Approval: 11/24/2019
Total number of pages: 5

Absolute Resource Associates Certifications

New Hampshire 1732
Maine NH903

Massachusetts M-NH902

Project ID: Canterbury 9363

Job ID: 51180

Sample#: 51180-001

Sample ID: Sump (3')

Matrix: Solid

Percent Dry: 92.2% Results expressed on a dry weight basis.

Sampled: 11/8/19 15:20

Parameter	Reporting		Units	Instr Dil'n	Prep		Analysis		Reference
	Result	Limit			Analyst	Date	Batch	Date Time	
dichlorodifluoromethane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
chloromethane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
vinyl chloride	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
bromomethane	< 0.22	0.22	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
chloroethane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
trichlorofluoromethane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
diethyl ether	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
acetone	< 2.2	2.2	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,1-dichloroethene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
methylene chloride	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
carbon disulfide	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
methyl t-butyl ether (MTBE)	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
trans-1,2-dichloroethene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
isopropyl ether (DIPE)	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
ethyl t-butyl ether (ETBE)	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,1-dichloroethane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
t-butanol (TBA)	< 2.2	2.2	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
2-butanone (MEK)	< 0.26	0.26	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
2,2-dichloropropane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
cis-1,2-dichloroethene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
chloroform	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
bromochloromethane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
tetrahydrofuran (THF)	< 0.43	0.43	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,1,1-trichloroethane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,1-dichloropropene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
t-amyl-methyl ether (TAME)	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
carbon tetrachloride	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,2-dichloroethane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
benzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
trichloroethene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,2-dichloropropane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
bromodichloromethane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,4-dioxane	< 2.2	2.2	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
dibromomethane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
4-methyl-2-pentanone (MIBK)	< 0.39	0.39	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
cis-1,3-dichloropropene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
toluene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
trans-1,3-dichloropropene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
2-hexanone	< 0.43	0.43	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,1,2-trichloroethane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,3-dichloropropane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
tetrachloroethene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
dibromochloromethane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D

Project ID: Canterbury 9363

Job ID: 51180

Sample#: 51180-001

Sample ID: Sump (3')

Matrix: Solid

Percent Dry: 92.2% Results expressed on a dry weight basis.

Sampled: 11/8/19 15:20

Parameter	Reporting		Units	Instr Dil'n	Prep		Analysis		Reference
	Result	Limit			Analyst	Date	Batch	Date Time	
1,2-dibromoethane (EDB)	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
chlorobenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,1,1,2-tetrachloroethane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
ethylbenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
m&p-xylenes	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
o-xylene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
styrene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
bromoform	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
isopropylbenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,1,2,2-tetrachloroethane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,2,3-trichloropropane	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
n-propylbenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
bromobenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,3,5-trimethylbenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
2-chlorotoluene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
4-chlorotoluene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
tert-butylbenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,2,4-trimethylbenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
sec-butylbenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,3-dichlorobenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
4-isopropyltoluene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,4-dichlorobenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,2-dichlorobenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
n-butylbenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,2-dibromo-3-chloropropane (DBCP)	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,2,4-trichlorobenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,3,5-trichlorobenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
hexachlorobutadiene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
naphthalene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
1,2,3-trichlorobenzene	< 0.086	0.086	ug/g	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
Surrogate Recovery		Limits							
dibromofluoromethane SUR	93	78-114	%	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
toluene-D8 SUR	99	88-110	%	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
4-bromofluorobenzene SUR	100	86-115	%	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D
a,a,a-trifluorotoluene SUR	107	70-130	%	1	LMM	11/18/19	12260	11/21/19 3:26	SW5035A8260D

Project ID: Canterbury 9363

Job ID: 51180

Sample#: 51180-001

Sample ID: Sump (3')

Matrix: Solid

Percent Dry: 92.2% Results expressed on a dry weight basis.

Sampled: 11/8/19 15:20

Parameter	Reporting		Units	Instr Dil'n	Prep		Analysis		Reference
	Result	Limit			Analyst	Date	Batch	Date Time	
naphthalene	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
2-methylnaphthalene	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
acenaphthylene	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
acenaphthene	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
dibenzofuran	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
fluorene	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
phenanthrene	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
anthracene	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
fluoranthene	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
pyrene	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
benzo(a)anthracene	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
chrysene	< 0.40	0.40	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
benzo(b)fluoranthene	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
benzo(k)fluoranthene	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
benzo(a)pyrene	< 0.40	0.40	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
indeno(1,2,3-cd)pyrene	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
dibenzo(a,h)anthracene	< 0.40	0.40	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
benzo(g,h,i)perylene	< 0.50	0.50	ug/g	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
Surrogate Recovery		Limits							
2-fluorobiphenyl SUR	79	43-116	%	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E
o-terphenyl SUR	131	33-141	%	1	CL	11/14/19	12245	11/19/19 19:05	SW3550C8270E

Sample#: 51180-001

Sample ID: Sump (3')

Matrix: Solid

Percent Dry: 92.2% Results expressed on a dry weight basis.

Sampled: 11/8/19 15:20

Parameter	Reporting		Units	Instr Dil'n	Prep		Analysis		Reference
	Result	Limit			Analyst	Date	Batch	Date Time	
Diesel Range Organics (DRO) C10-C28	< 100	100	ug/g	1	ACA	11/14/19	12246	11/15/19 4:41	SW3550C8015D
Surrogate Recovery		Limits							
2-fluorobiphenyl SUR	117	40-140	%	1	ACA	11/14/19	12246	11/15/19 4:41	SW3550C8015D
o-terphenyl SUR	115	40-140	%	1	ACA	11/14/19	12246	11/15/19 4:41	SW3550C8015D

absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST

e: GeoInsight, Inc

Canterbury

9363

Project Location: NH MA ME VT

Accreditation Required? N/Y:

Protocol:	RCRA	SDWA	NPDES
	MCP	NHDES	DOD

Reporting	QAPP	GW-1	S-1
Limits:	EPA DW	Other	

Quote #

☐ NH Reimbursement Pricing

186 Granite St. Suite 3A
Manchester, NH 03101

Peter Frank

683 314 6820

Invoice to:

PO #:

TAT REQUESTED

Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard ☒
(10 Business Days)
*Date Needed

See absoluteresourceassociates.com
for sample acceptance policy and
current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS

☒ PDF (e-mail address) pdfrank@geoinc.com

☐ **HARD COPY REQUIRED**

☐ EDD

CUSTODY RECORD

QSD-01 Revision 11/08/18

Relinquished by Sampler:

Date, _____

11/13/19

Time

14:40

Received by:

Received by:

Received by Laboratory:

Date _____

11/13

Date _____

Time

2/4 =

Time

Date _____

Date	Time
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Laboratory Report



Absolute Resource *associates*

124 Heritage Avenue Portsmouth NH 03801

Peter Frank
GeolInsight, Inc.
186 Granite Street
3rd Floor, Suite A
Manchester, NH 03103

PO Number: 9363
Job ID: 50862
Date Received: 10/18/19

Project: Falcon Petroleum 9363

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

A handwritten signature in black ink, appearing to read "JLowe (for)".

Jennifer Lowe
Laboratory Manager

Date of Approval: 10/25/2019
Total number of pages: 3

Absolute Resource Associates Certifications

New Hampshire 1732
Maine NH903

Massachusetts M-NH902

Project ID: Falcon Petroleum 9363

Job ID: 50862

Sample#: 50862-001

Sample ID: Tank-1

Matrix: Other

Sampled: 10/18/19 9:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
TPH C10-C36	22000	4000	ug/g	1	ACA	10/21/19	12146	10/21/19	13:08	SW3550C8015D
Surrogate Recovery		Limits								
2-fluorobiphenyl SUR	106	40-140	%	1	ACA	10/21/19	12146	10/21/19	13:08	SW3550C8015D
o-terphenyl SUR	110	40-140	%	1	ACA	10/21/19	12146	10/21/19	13:08	SW3550C8015D

Note: The concentration shown resembles predominantly a #2 fuel with a lesser concentration of gasoline present.

Sample#: 50862-001

Sample ID: Tank-1

Matrix: Other

Sampled: 10/18/19 9:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Flash Point Closed Cup	140		deg F	1	DBV		1903191	10/21/19		SW1010

