LCS INC.
Environmental and Real Estate Consultants

Geophysical Survey and Limited and Focused Subsurface Soil Investigation Report for the Property Identified as:

Vacant Commercial Building
701-703 East Fayette Street
aka 241 Almond Street
Syracuse, New York 13202

LCS PROJECT # 16S4107.22
NYSDEC SPILL # 16-05568

SEPTEMBER 22, 2016

Buffalo. Rochester. Syracuse. Albany. Mid Hudson. New York City. Connecticut. Cleveland. Pittsburgh. Wilkes Barre. Harrisburg. Allentown. Delaware. Maryland. Washington, DC. Virginia. North Carolina.

LCS INC.
Environmental and Real Estate Consultants

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September 22, 2016

Ms. Lindsay Weichert
M&T Bank
101 South Salina Street
Syracuse, New York 13202

Re: Geophysical Survey and Limited and Focused Subsurface Soil Investigation
Vacant Commercial Building
701 East Fayette Street (aka 241 Almond Street)
Syracuse, New York 13202
LCS Project No. 16S4107.22 (Related too 16S4107.24)
NYSDEC Spill # 1605568

Dear Ms. Weichert:

Background
At your request, Lender Consulting Services, Inc. (LCS) performed a geophysical survey and limited and focused subsurface soil investigation, at the Vacant Commercial Building, located at 701 East Fayette Street (aka 241 Almond Street) Syracuse, New York 13202 (See Figure 1). The subject property measures approximately 0.43 acre and is developed with a single-story, 1,680 square foot structure that was constructed in 1960. The subject property is located in a highly developed commercial and residential area. The topography of the site is generally level at grade.

This investigation was recommended based on the information gathered by LCS during a Transaction Screen Environmental Site Assessment Report for the above-referenced property, dated August 5, 2016. Through that report, the following recognized environmental conditions were identified warranting intrusive study at that time.

- According to historical sources, the subject property has included automotive repair from at least 1938 through at least 1968 and a gasoline station from at least 1978 through at least 1983. LCS noted a former fuel pump island area on-site and two former in-ground lifts within the structure. Furthermore, floor drains were noted within the subject structure; the discharge point was unknown. The cylinders/pits from the former lifts and floor drains were noted to be filled with water.

Due to the discovery of petroleum impact, as required by law, the New York State Department of Environmental Conservation (NYSDEC) was notified and spill number 1605568 was assigned to the site. Dan LaSalle has been assigned to the site as the spill investigator.

Introduction
The purpose of this geophysical survey and intrusive study was to investigate the potential presence of underground storage tanks (USTs) and to assess the environmental quality of on-site soil and groundwater in accessible locations of the subject property due to the environmental concerns identified above. Soil samples were collected for stratigraphic characterization and field monitoring. Select soil samples were submitted for laboratory analysis to supplement field observations.

The work completed is generally consistent with LCS' August 9, 2016, proposal to Ms. Weichert, authorized on August 17, 2016, with the following exception(s). LCS had originally planned on installing three temporary groundwater monitoring wells proximate to the recognized environmental conditions; however, no wells were not installed as groundwater was not encountered in any of the test borings.

The following is a summary of the methods and results of the investigation.

Methods of Investigation

Geophysical Survey

On August 25, 2016, a limited geophysical survey was conducted by Ground Penetrating Radar Systems, Inc. (GPRS) in an effort to better determine the location of unknown historic underground storage tanks (USTs), fueling system components, or other subsurface structures of potential concern (Figure 2). This work also served to reduce the possibility of damaging an underground utility during the intrusive investigation. Prior to collection of soil/water samples, the portion of the subject property proximate to the existing building was surveyed using a combination of ground penetrating radar (GPR) and utility tracing instruments.

Soil

Soil samples were collected on September 1, 2016, with a truck-mounted percussion and hydraulically driven drive system equipped with an approximate 2-inch diameter, approximate 48-inch long macro-core sampler. Soil samples were collected within each borehole continuously from the ground surface until a depth of between approximately 3.0 and 16.0 feet below the ground surface (ft. bgs). Any downhole equipment was decontaminated with an Alconox and tap water wash and tap water rinse between boreholes. The cutting shoes were decontaminated in a similar manner between collection of each sample.

The physical characteristics of all soil samples were classified using the Unified Soil Classification System (USCS) (Visual-Manual Method) and placed in separate sealable containers to allow any vapors to accumulate in the headspace. After several minutes, the container was opened slightly and total volatile organic compound (VOC) concentrations in air within the sample container were measured using a photoionization detector (PID). (The PID is designed to detect VOCs, such as those associated with petroleum and some solvents.) Based on the field observations and/or screening results, soils were selected for analysis (see below).

Sample Analysis

Following labeling of the laboratory-supplied sample containers, selected samples were placed on ice. The samples were then submitted, under standard chain-of-custody, to a New York State Department of Health (NYSDOH) approved laboratory for analysis in accordance with the United States Environmental Protection agency (USEPA) SW-846 Methods as summarized below. The analytical methods were chosen based on LCS' experience with sites of similar use.

The following table summarizes the specific analytical testing performed and their respective sample locations.

Sample Location	Analytical Testing Performed	Recognized Environmental Condition
Soil		
BH3 (8-10 ft. bgs)	TCL + CP-51 VOC and CP-51 SVOC	Historic gasoline station and automotive repair operations
BH5 (10-12 ft. bgs)		
BH8 (2-4 ft. bgs)		
BH12 (8-12 ft. bgs)		
BH13 (8-10 ft. bgs)		

ft. bgs = feet below ground surface
TCL+CP-51 VOCs = Target Compound and Commissioner Policy List volatile organic compounds via USEPA Test Method 8260
CP-51 SVOCs = Commissioner Policy List semi-volatile organic compounds via USEPA Test Method 8270

Results of Field Investigation

Geophysical Survey

Based on the results of the geophysical survey, GPRS did not encounter any apparent USTs or apparent UST graves. Three concrete pads were identified below the asphalt surface. It is believed that there is steel within the slabs of concrete because of the limited view with the radar. Two of the concrete pads were located on the southeastern portion of the subject property, and the third concrete pad was located off of the northeast corner of the building. GPRS stated that no USTs are believed to be associated with the concrete pads as no conduit or other lines were identified extending from either pad.

Intrusive investigation

Fourteen boreholes (BH1 through BH14) were completed in accessible areas of the subject property proximate to the environmental concerns. (See Figure 2.) A total of 70 soil samples were collected for geologic description. Fill material consisting of asphalt, concrete, brick, and sand, was noted within test borings BH1 through BH14 to a maximum depth of approximately 7.5 ft. bgs. Generally, the native soils encountered consisted of varying mixtures of sand to the bottom of the test borings. No apparent groundwater was encountered in any of the test borings.

Equipment refusal was encountered within test borings BH1, BH7, BH8, BH9, BH11, BH13, and BH14 between approximately 3.0 and 13.2 ft. bgs. The cause of the equipment refusal could not be determined, but is suspected to be caused by shallow bedrock.

PID measurements were above total ambient air background VOC measurements (i.e., 0.0 parts per million, ppm) in the soil samples collected. These elevated concentrations ranged from 0.5 parts per million (ppm) to 1,300 ppm (BH13, ~8-10 ft. bgs). Petroleum-type odors were detected in soil samples collected from test borings BH3 through BH8 and BH11 through BH13 between approximately 0.6 and 16 ft. bgs. Petroleum-type staining was observed in soil samples collected from test borings BH6 and BH13 between approximately 7.8 and 12 ft. bgs. In LCS' experience, the PID measurements and field observations (i.e., odors/staining) suggest some VOC impact proximate to the historic gasoline station.

Refer to the attached subsurface logs for soil classification for each sample interval, field observations and PID measurements.

Investigation Analytical Results

The soil samples collected and analyzed detected the following analytes. The respective concentrations as well as applicable regulatory guidance values are also listed for comparison. Analytes not detected are not shown.

SOIL TESTING RESULTS

VOCs by USEPA SW-846 Method 8260

Sample ID	**BH3**	**BH5**	**BH8**	**BH12**	**BH13**	**CP-51 Soil Cleanup Levels**
Date Sampled	**8/31/16**	**8/31/16**	**8/31/16**	**8/31/16**	**8/31/16**	
Sample Depth	**8-10 ft. bgs**	**10-12 ft. bgs**	**2-4 ft. bgs**	**8-12 ft. bgs**	**8-10 ft. bgs**	
Units	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Cyclohexane	1,640	36,900	568	322	8,110	NL
Methyl Cyclohexane	6,240	113,000	4,550	1,290	31,500	NL
Benzene	334 J	7,670	426	279	8,460	60
Toluene	7,770	346,0200	162 J	827 J	83,400	700
Ethylbenzene	5,600	134,000	2,150	3,310	40,100	1,000
m,p- Xylene	25,300	659,000	3,180	13,700	168,000	260*
o-Xylene	9,630	231,000	269	6,630	64,300	260*
Styrene	<117	<442	<43.5	68.9 J	<421	NL
Isopropylbenzene	1,490 J	22,900	3,070	588 J	7,200 J	2,300
1,2- Dichlorobenzene	<153	<551	<56.8	255	<549	NL
n-Propylbenzene	4,150	62,100	6,670	2,310	19,900	3,900
Sec- Butylbenzene	1,320	8,690	1,140	398	2,770	11,000
p- Isopropyltoluene	1,250	4,990	544	327	1,790 J	10,000
Tert- Butylbenzene	199 J	1,270J	117 J	<36.7	<371	5,900
1,2,4- Trimethylbenzene	31,100	347,000	22,700	20,300	129,000	3,600
1,3,5- Trimethylbenzene	9,980	119,000	5,610	5,560	38,500	8,400
n-Butylbenzene	2,230	19,100	1,830	1,140	6,230	12,000
Naphthalene	5,350	55,100	978	9,480	21,900	12,000

µg/kg = micrograms per kilogram
ft. bgs = feet below ground surface
NL = Not Listed
NA = Not Available
J = Indicates an estimated value
*= Based on the sum of the Total Xylenes.
CP-51 Soil Cleanup Levels = CP-51 Soil Cleanup Guidance October 21, 2010 (Table 3, Soil Cleanup Levels for Gasoline Contaminated Soil).
= Analyte that is detected above the CP-51 Soil Cleanup Levels.

SVOCs by USEPA SW-846 Method 8270

Sample ID	BH3	BH5	BH8	BH12	BH13	CP-51 Soil Cleanup Levels
Date Sampled	8/31/16	8/31/16	8/31/16	8/31/16	8/31/16	
Sample Depth	8-10 ft. bgs	10-12 ft. bgs	2-4 ft. bgs	8-12 ft. bgs	8-10 ft. bgs	
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Naphthalene	1,690	2,860	530	2,330	2,920	12,000
Acenaphthylene	40.5 J	<9.023	<81.3	<90.4	<9.01	100,000
Acenaphthene	26.4 J	11.9 J	<79.8	96.5 J	15.6 J	20,000
Fluorene	50.3	<8.64	128 J	170 J	<8.62	30,000
Phenanthrene	154	14.7 J	628	682	15.0 J	100,000
Anthracene	49.0	<8.75	255 J	190 J	<8.73	100,000
Fluoranthene	68.6	10.4	1,1310	697	12.7 J	100,000
Pyrene	121	10.9 J	1,550	761	13.3 J	100,000
Benzo(a)anthracene	28.0 J	5.53 J	623	322 J	7.92 J	1,000
Chrysene	25.6 J	<9.44	638	316 J	<9.42	1,000
Benzo(b)fluoranthene	24.6 J	<8.35	786	347 J	<8.34	1,000
Benzo(k)fluoranthene	14.9 J	<6.08	332 J	149 J	<6.07	800
Benzo(a)pyrene	15.7 J	<6.03	660	300 J	6.40 J	1,000
Indeno (1,2,3-cd) pyrene	8.82 J	<6.74	379	183 J	<6.73	500
Dibenzo(a,h)anthracene	<7.31	<7.1	137 J	<71.1	<7.09	330
Benzo(g,h,i)perylene	22.8 J	<8.67	558	236 J	<8.65	100,000

µg/kg = micrograms per kilogram
ft. bgs = feet below ground surface
MDL = Method Detection Limit
J = Indicates an estimated value.
CP-51 Soil Cleanup Levels = CP-51 Soil Cleanup Guidance October 21, 2010 (Table 3, Soil Cleanup Levels for Fuel Oil Contaminated Soil)

Conclusions

The purpose of this study was to assess the recognized environmental conditions identified in the August 5, 2016, Transaction Screen Environmental Site Assessment (specifically, the historic use of the subject property as a gasoline station and automotive repair facility). Select soil samples were collected from the areas of the recognized environmental conditions.

Geophysical Survey

Based on the results of the geophysical survey, no apparent USTs or apparent UST graves were discovered. Three concrete pads were identified below the asphalt surface. It is believed that there is steel within the slabs of concrete because of the limited view with the radar. Two of the concrete pads were located on the southeastern portion of the subject property, and the third concrete pad was located off of the northeast corner of the building. GPRS noted that no USTs are believed to be associated with the concrete pads as no conduit or other lines were identified extending from any of the pads.

Intrusive Investigation

Field Observations

PID measurements were above total ambient air background VOC measurements (i.e., 0.0 parts per million, ppm) in the soil samples collected. These elevated concentrations ranged from 0.5 parts per million (ppm) to 1,300 ppm (BH13, ~8-10 ft. bgs). Petroleum-type odors were detected in soil samples collected from test borings BH3 through BH8 and BH11 through BH13 between approximately 0.6 and 16 ft. bgs. Petroleum-type staining was observed in soil samples collected from test borings BH6 and BH13 between approximately 7.8 and 12 ft. bgs. In LCS' experience, the PID measurements and field observations (i.e., odors/staining) suggest some VOC impact proximate to the historic gasoline station.

Laboratory Test Results

VOLATILE ORGANIC COMPOUNDS

Eleven VOCs were detected at concentrations above commonly-applied regulatory criteria. The following VOCs were detected in these samples at concentrations above the CP-51 SCOs:

- Benzene, Ethylbenzene, m,p- Xylene, o-Xylene, and 1,2,4- Trimethylbenzene in BH3, BH5, BH8, BH12, and BH13
- Toluene in BH3, BH5, BH12, and BH13
- Isopropylbenzene in BH5, BH8, and BH13
- n-Propylbenzene in BH3, BH5, BH8, and BH13
- 1,3,5- Trimethylbenzene and Naphthalene in BH5 and BH13
- n-Butylbenzene in BH5

Due to the discovery of petroleum contamination, as required by law, the NYSDEC was notified and spill number 16-05568 was assigned to the site; Dan LaSalle is the spill investigator.

Recommendations

LCS recommends that a copy of this report be forwarded to the NYSDEC for review and comment. Following their review, LCS can provide a cost estimate to proceed with additional work that might be required, if any.

Regardless, as with any property, should impacted soils, groundwater or unknown USTs be encountered during future intrusive work (i.e., site redevelopment, utility work, etc.), such would require proper handling.

Thank you for allowing LCS to service your environmental needs. If you have any questions or require additional information, please do not hesitate to call our office.

Sincerely,

Brandon Stau
Environmental Analyst/ Project Manager

Reviewed by:

Douglas B. Reid
Sr. VP, Environmental Services

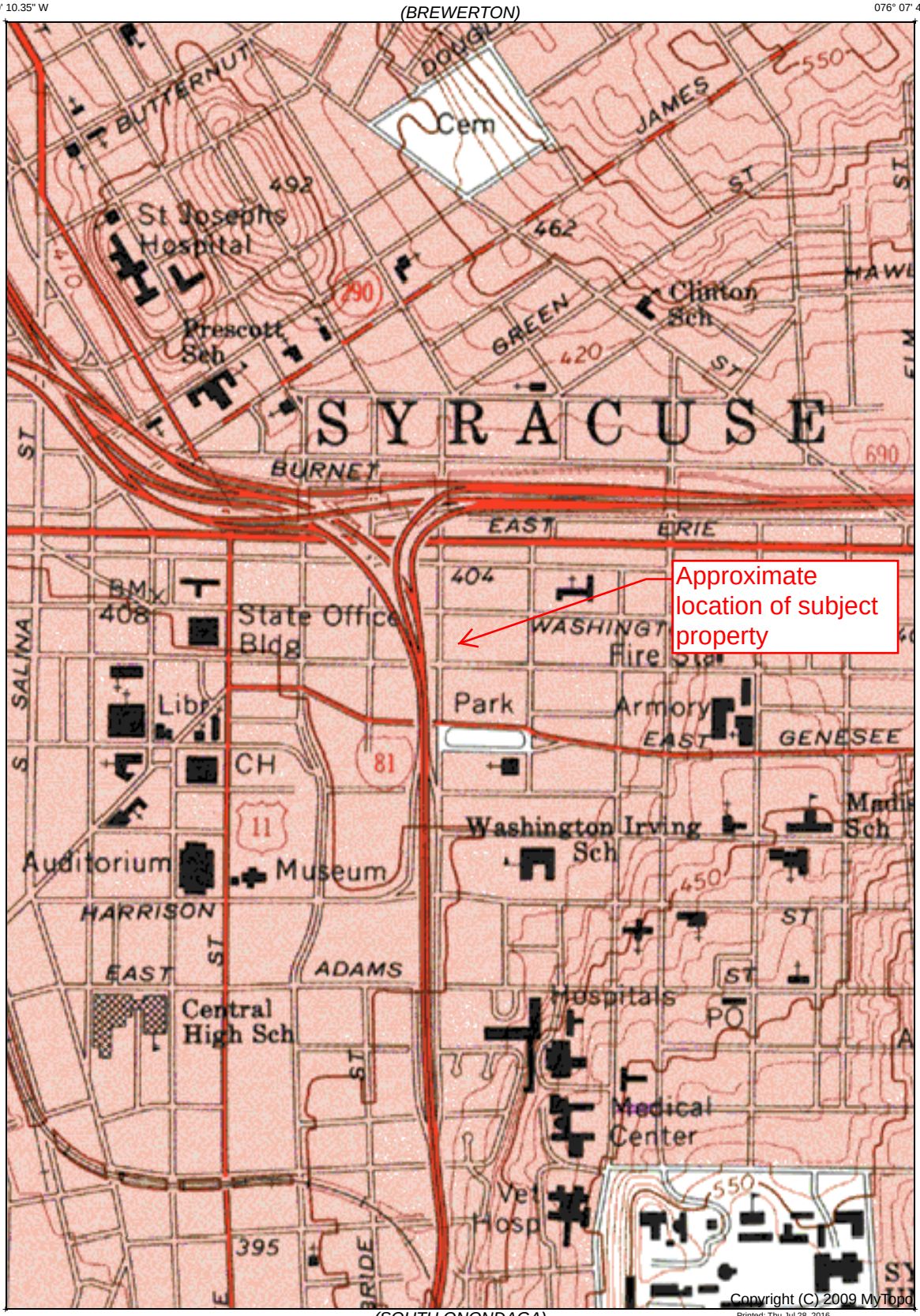
SITE LOCATION MAP

SYRACUSE WEST QUADRANGLE
NEW YORK
TOPOGRAPHIC SERIES

(BALDWINSVILLE) (BREWERTON) (CICERO)

076° 09' 10.35" W 043° 03' 36.50" N
076° 07' 49.42" W 043° 03' 36.50" N

(CAMILLUS) (SYRACUSE EAST)



Copyright (C) 2009 MyTopo
Printed: Thu Jul 28, 2016

043° 02' 12.72" N 076° 09' 10.35" W
043° 02' 12.72" N 076° 07' 49.42" W

(MARCELLUS) (SOUTH ONONDAGA) (JAMESVILLE)

SCALE 1:12000

Declination

MN GN

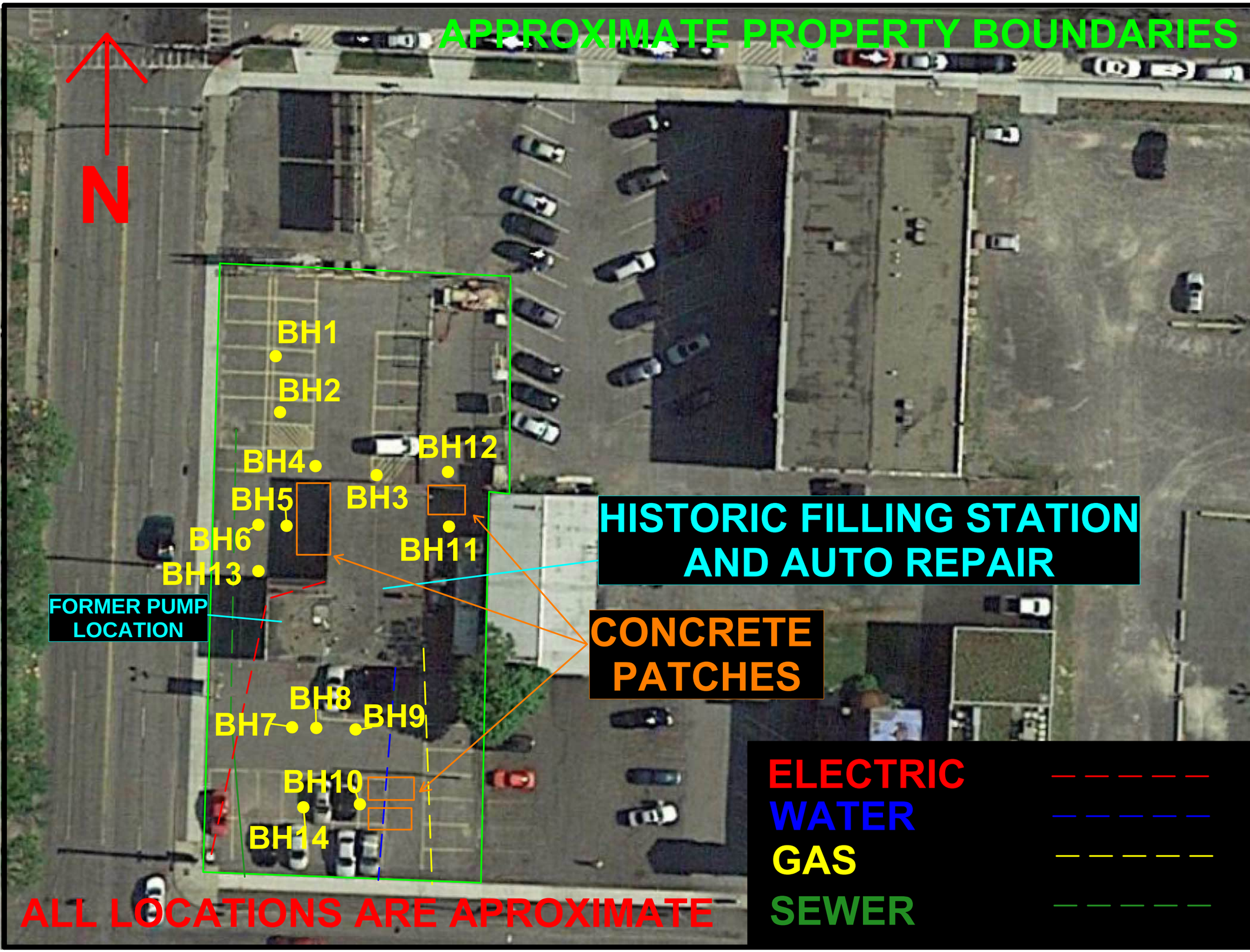
GN 0.78° W
MN 12.50° W

0 1000 2000
FEET

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM 1929

SYRACUSE WEST, NY
1973
Photo revised 1978

SUBSURFACE INVESTIGATION MAP



Drawn by: BMS

Checked by: DBR

30 60
Approximate Scale in Feet

LCS Project # 16S4107.22

FIGURE 2 - SITE INVESTIGATION PLAN

701-703 East Fayette Street
aka 241 Almond Street
Syracuse, New York 13202

LCS INC.

GEOPHYSICAL REPORT

September 4, 2016

Lender Consulting Services
Attn: Joe Halleck
40 La Riviere Drive, Suite 120, Buffalo, NY 14202
Phone: (800)474-6802
Email: jhalleck@lenderconsulting.com

Subject: Ground Penetrating Radar (GPR) scanning in Syracuse, NY for Utility/UST locate.
Site Address: 701 E. Fayette Street, Syracuse, NY

Lead Technician: Jim Bell
Project Manager of the State of Upstate New York
Ground Penetrating Radar Systems, Inc.
Phone: (315)715-5137
Jim.Bell@gp-radar.com

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1. Overview of GPR

Ground Penetrating Radar (GPR) is a non-destructive testing technology that sends a series of radar pulses into the surface which reflect back off of anomalies below. As the radar pulses through the ground, the waves bend slightly when encountering a material with differing physical properties, particularly density and conductivity. Thousands of pulses are sent and received in a small area, and the received signals are combined to form a real-time image of what is in the ground. The various places where the radar waves bend are displayed as anomalies which can be interpreted as reinforcing steel, steel pipes, PVC conduits, underground storage tanks, voids, foundations, etc. One of the many advantages of the technology is the ability to locate metal and non-metallic objects as well as determining depth to the object. GPR data acquisition is very fast and results are available immediately, allowing any discovered anomalies to be marked directly in the field. Although confused with X-Ray, GPR uses less than 1% of your cell phones radiation emissions and is safe to work with human presence in close proximity.

2. Equipment and Capabilities

Ground Penetrating Radar (GPR)

- **GSSI SIR-3000**

-GPRS uses a Geophysical Survey Systems Inc. (GSSI) SIR-3000 radar unit. This is the most advanced GPR available. It allows for on-site interpretation, as well as stored data for later processing. This equipment is self-calibrating, allowing more precise depth and location measurements.
-GSSI is the world's leading GPR designer and manufacturer. Information can be found at www.geophysical.com.

- **400 MHZ GSSI Antenna**

-For mid-range scans, we use a 400 MHz antenna with the SIR-3000 GPR head unit. This antenna allows data collection to a maximum depth of approximately 12' depending on soil conditions. Due to soil conditions the average depth the 400MHz antenna penetrates in New York is 4'-6'.

- **RD-7000 Locator**

-This device detects live power and RF signals underground, allowing us to locate electrical or telephone lines even if they are below the minimum size requirements to be detected by GPR. It also allows us to detect utilities via induction or conduction with an exposed or known surface of the utility.

3. Site Description

The site consisted of all exterior areas at the address listed. There were no impediments obstructing our scanning. As with all projects though, we are not able to see anomalies running parallel to and closer than 2' from any above ground obstruction (i.e. fences, buildings). Depth of penetration on site was consistently around 4' in depth. Markings on the surface were with spay paint on the surface.

4. Inspection Methods

The equipment used consisted of a SIR-3000 operating system along with the 400 MHz antenna. As the equipment is in active operation, real time data is displayed on the monitor that is interpreted by our trained and experienced technician. The images portrayed by the system will show underground anomalies if there are any in the area of concern. While in operation, no radioactive emissions are used.

Our process involved surveying with the GPR antenna within the areas mentioned above. The survey with the GPR unit consisted of making a tight grid pattern, with scans being approximately 3'-5' apart. The scans were made in passes going north/south and east/west. After the areas were scanned thoroughly, we marked the findings accordingly to the location of the anomalies detected below the surface. Markings were completed with paint on the surface.

Once the scans with the radar were completed we made a similar type grid pattern with our RD7000 wand. If any passive radio signals were detected we traced them out to their point of origin, or until it moved away from the general vicinity of work.

5. Findings

After scanning all areas on the premises, we did not locate any areas where there any UST's, or former UST graves were located. We did locate (3) areas where concrete pads had been covered with asphalt. Although we believe we would have been able to see any tanks beneath these concrete pads, it must be stated that the steel within the slabs limited the penetration depth of the radar. Two of these pads were located on the southeastern portion of the facility; the third pad was located off of the northeast corner of the building on site.

We also did not detect any pipes running from the pads on the southeastern portion of the facility. This would lead us to believe that there are no UST's beneath the pads, as there would be conduits, fuel lines, and vent pipes running to and from the tanks.

For the rest of the findings, please see the attached site photos. They will be broken down by the side of the building they are located.

Pictures of Site Findings

West (Front)- Site Lighting

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Pictures of Site Findings

West Side of Building (Front)- Storm Drain

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Pictures of Site Findings

South Side of Building- Possible Water Line

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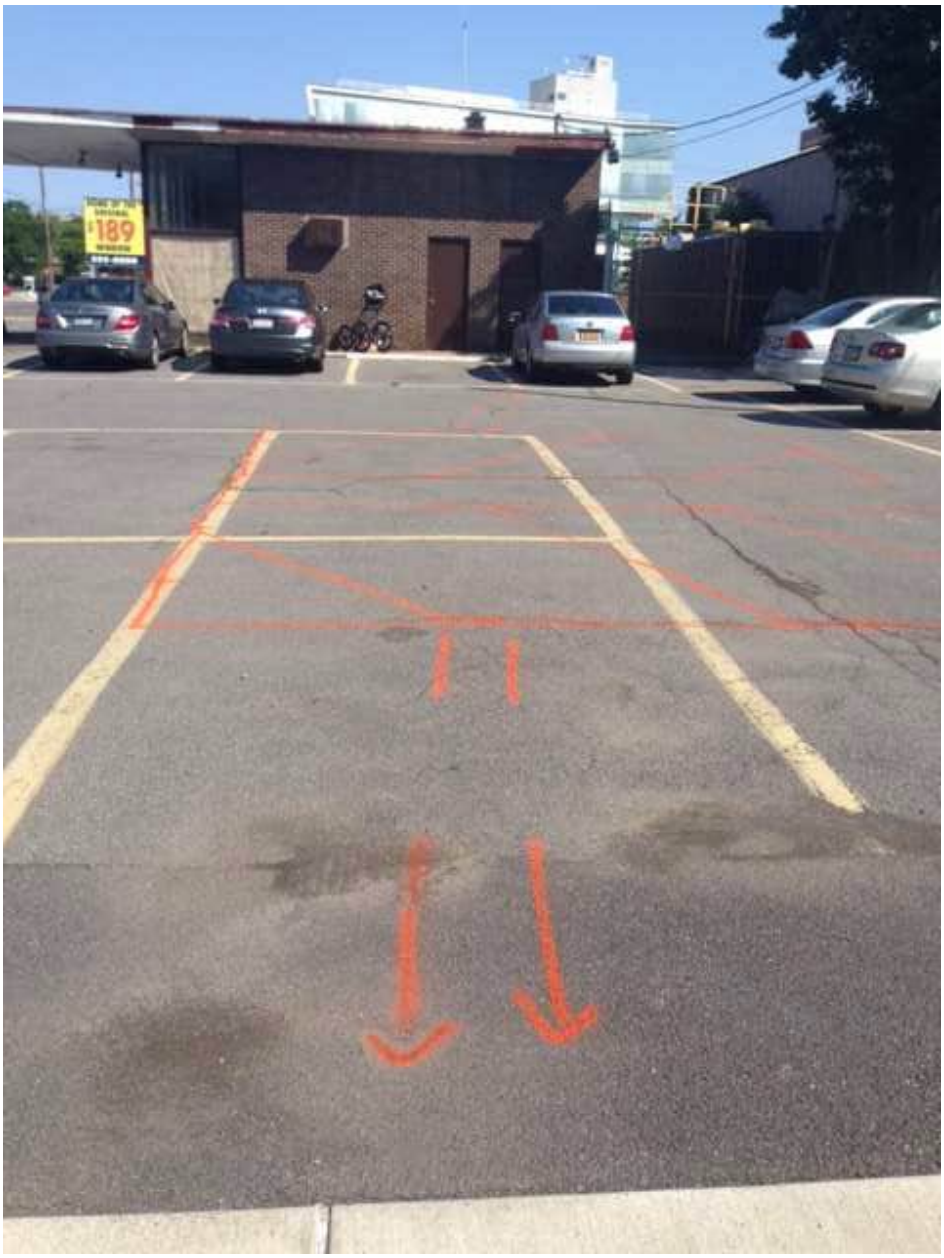

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Pictures of Site Findings

South Side of Building- Gas Line

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Pictures of Site Findings

South Side of Building- Concrete Pads

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6. Qualifications

Ground Penetrating Radar Systems, Inc. (GPRS) was started in October 2001, by Matt Aston. The original intention in starting this business was to give contractors a reliable was to "see" into the concrete slabs in order to avoid cutting embedded electrical conduits and critical reinforcing steel. While GPRS performs this work on a regular basis, there are many other applications in which we use Ground Penetrating Radar to benefit our customer base.

Since our inception, GPRS has grown to be nationwide and has completed over five thousand projects. We are very proud of our ten years of zero recordable incidents. We are very proud of our performance. We have had a reported incident of error on less than one percent of the projects we have completed. Our customers have expressed a high level of satisfaction, as evidenced by the fact that in 2010, nearly 80% of our business was either repeat or referred by our customers. GPRS has been involved on projects ranging from small residential jobs to major construction projects with values in excess of $1 Billion.

7. Closing

Thank you for the opportunity to serve you on this project. I hope this report has answered all the questions you had regarding this survey. However if there is anything you have questions about or feel was omitted, please do not hesitate to contact me.

Thank you,

Jim Bell
Project Manager of the Upstate New York Office
Ground Penetrating Radar Systems, Inc.
Phone: (315)715-5137
Jim.Bell@gp-radar.com

SUBSURFACE LOGS

LCS Inc.

SUBSURFACE LOG

PROJECT/ LOCATION: 701 East Fayette Street, Syracuse, New York PROJECT No. 16S4107.22

CLIENT: M&T Bank BORING/WELL No. BH1

DATE STARTED: 8/31/16 DATE COMPLETED: 8/31/16 RECORDED BY: SK

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: 80 °F , Sunny DRILL RIG: Geo-probe DRILLER: Trec. Environmental

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	4.4	1-3	U	-	-	20	0 – 1.0 ft. Asphalt
							1.0 – 2.5 ft. Brown/gray/dark brown gravely sand (coarse, medium dense, dry) (brick and concrete)
							2.5 – 3.0 ft. Brown gravely sand (fine, dense, dry)
							Refusal encountered at ~3.0 ft. bgs.

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 701 East Fayette Street, Syracuse, New York PROJECT No. 16S4107.22

CLIENT: M&T Bank BORING/WELL No. BH2

DATE STARTED: 8/31/16 DATE COMPLETED: 8/31/16 RECORDED BY: SK

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: 80 °F , Sunny DRILL RIG: Geo-probe DRILLER: Trec. Environmental

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	0.5	0.6-2	U	-	-	22	0 – 0.6 ft. Asphalt
2	0.9	2-4	U	-	-	22	0.6 – 4.0 ft. Brown/gray silty clayey sand (medium, dense, dry)
3	1.4	4-6	U	-	-	18	4.0 – 7.0 ft. Brown/orange silty clayey sand (fine, dense, dry)
4	1.4	6-8	U	-	-	18	7.0 – 12.0 ft. Brown silty clayey gravely sand (fine, dense, moist)
5	1.6	8-10	U	-	-	14	12.0 – 16.0 ft. Brown silty clayey sand (fine, dense, moist)
6	1.3	10-12	U	-	-	14	
7	1.1	12-14	U	-	-	10	
8	NA	14-16	U	-	-	10	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4.0 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 701 East Fayette Street, Syracuse, New York PROJECT No. 16S4107.22

CLIENT: M&T Bank BORING/WELL No. BH3

DATE STARTED: 8/31/16 DATE COMPLETED: 8/31/16 RECORDED BY: SK

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: 80 °F , Sunny DRILL RIG: Geo-probe DRILLER: Trec. Environmental

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	1.4	0.6-2	U	-	-	16	0 – 0.6 ft. Asphalt
2	1.3	2-4	U	-	-	16	0.6 – 2.0 ft. Brown/gray/orange gravelly sand (medium, loose, dry)
3	1.5	4-6	U	-	-	22	2.0 – 4.4 ft. Dark brown/gray gravely sand (fine, loose, dry)
4	33.7	6-8	U	-	-	22	4.4 – 7.0 ft. Brown silty clayey gravely sand (fine, dense, dry)
5	547.1	8-10	U	-	-	14	7.0 – 8.5 ft. Brown silty clayey sand (fine, dense, dry)
6	74.3	10-12	U	-	-	14	8.5 – 8.7 ft. Dark brown/gray gravely sand (fine, dense, moist)
7	18.0	12-14	U	-	-	16	8.7 – 12.5 ft. Brown silty clayey sand (fine, dense, moist)
8	253.7	14-16	U	-	-	16	12.5 – 16.0 ft. Brown/gray silty clayey gravely sand (fine, medium dense, moist)

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

Suspect odors detected at ~8.5 – 8.7 ft. bgs.

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 701 East Fayette Street, Syracuse, New York PROJECT No. 16S4107.22

CLIENT: M&T Bank BORING/WELL No. BH4

DATE STARTED: 8/31/16 DATE COMPLETED: 8/31/16 RECORDED BY: SK

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: 80 °F , Sunny DRILL RIG: Geo-probe DRILLER: Trec. Environmental

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	7.3	1-2	U	-	-	20	0 – 1.0 ft. Asphalt
2	11.6	2-4	U	-	-	20	1.0 – 2.5 ft. Brown/gray gravely sand (medium, loose, moist)
3	5.1	4-6	U	-	-	16	2.5 – 8.5 ft. Brown/gray silty clayey sand (fine, dense, dry)
4	19.1	6-8	U	-	-	16	8.5 – 16.0 ft. Brown/gray silty clayey sand (fine, dense, moist)
5	7.0	8-10	U	-	-	14	
6	8.8	10-12	U	-	-	14	
7	3.2	12-14	U	-	-	10	
8	NA	14-16	U	-	-	10	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2.5 ft. bgs

Slight suspect odor detected at ~4 – 8 ft. bgs.

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 701 East Fayette Street, Syracuse, New York PROJECT No. 16S4107.22

CLIENT: M&T Bank BORING/WELL No. BH5

DATE STARTED: 8/31/16 DATE COMPLETED: 8/31/16 RECORDED BY: SK

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: 80 °F , Sunny DRILL RIG: Geo-probe DRILLER: Trec. Environmental

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	22.9	0.6-2	U	-	-	20	0 – 0.6 ft. Asphalt
2	19.0	2-4	U	-	-	20	0.6 – 2.0 ft. Dark brown/gray gravely sand (medium, dense, dry)
3	438.0	4-6	U	-	-	24	2.0 – 7.0 ft. Brown silty clayey sand (fine, dense, dry)
4	602.2	6-8	U	-	-	24	7.0 – 10.0 ft. Brown silty clayey sand (fine, dense, moist)
5	545.9	8-10	U	-	-	14	10.0 – 10.2 ft. Dark brown gravely sand (medium, dense, moist)
6	973.2	10-12	U	-	-	14	10.2 -16.0 ft. Brown silty clayey sand (medium, dense, moist)
7	179.4	12-14	U	-	-	10	
8	NA	14-16	U	-	-	10	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2.0 ft. bgs

Slight suspect odors detected at ~2 – 4 and 10 – 10.2 ft. bgs.

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 701 East Fayette Street, Syracuse, New York PROJECT No. 16S4107.22

CLIENT: M&T Bank BORING/WELL No. BH6

DATE STARTED: 8/31/16 DATE COMPLETED: 8/31/16 RECORDED BY: SK

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: 80 °F , Sunny DRILL RIG: Geo-probe DRILLER: Trec. Environmental

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	54.4	0.6-2	U	-	-	24	0 – 0.6 ft. Asphalt
2	76.3	2-4	U	-	-	24	0.6 – 2.0 ft. Dark brown/gray gravely sand (medium, dense, dry)
3	66.4	4-6	U	-	-	20	2.0 – 7.8 ft. Brown/orange silty clayey sand (fine, dense, dry)
4	102.4	6-8	U	-	-	20	7.8 – 8.0 ft. Brown silty clayey sand (fine, dense, moist)(staining)
5	645.6	8-10	U	-	-	16	8.0 – 12.0 ft. Brown/orange silty clayey sand (fine, dense, moist)
6	355.4	10-12	U	-	-	16	12.0 – 16.0 ft. Dark brown gravely sand (fine, dense, moist)
7	411.0	12-14	U	-	-	10	
8	NA	14-16	U	-	-	10	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2 ft. bgs

Slight suspect odors detected at ~0.6 – 16.0 ft. bgs.

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 701 East Fayette Street, Syracuse, New York PROJECT No. 16S4107.22

CLIENT: M&T Bank BORING/WELL No. BH7

DATE STARTED: 8/31/16 DATE COMPLETED: 8/31/16 RECORDED BY: SK

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: 80 °F , Sunny DRILL RIG: Geo-probe DRILLER: Trec. Environmental

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	28.4	0.6-3	U	-	-	10	0 – 0.6 ft. Asphalt
							0.6 – 3 ft. Dark brown gravely sand (medium, dense, dry)
							Refusal encountered at ~3.0 ft. bgs.

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~3.0 ft. bgs

Slight suspect odors detected at ~0.6 – 3.0 ft. bgs.

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 701 East Fayette Street, Syracuse, New York PROJECT No. 16S4107.22

CLIENT: M&T Bank BORING/WELL No. BH8

DATE STARTED: 8/31/16 DATE COMPLETED: 8/31/16 RECORDED BY: SK

GROUNDWATER DEPTH WHILE DRILLING: _____ AFTER COMPLETION: _____

WEATHER: 80 °F , Sunny DRILL RIG: Geo-probe DRILLER: Trec. Environmental

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	27.4	0.8-2	U	-	-	15	0 – 0.8 ft. Asphalt
2	426.3	2-4	U	-	-	15	0.8 – 5.0 ft. Dark brown gravely sand (medium, dense, dry) (brick)
3	38.6	4-5	U	-	-	10	Refusal encountered at ~5.0 ft. bgs.

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~5.0 ft. bgs

Suspect odors detected at ~0.8 – 5.0 ft. bgs.

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 701 East Fayette Street, Syracuse, New York PROJECT No. 16S4107.22

CLIENT: M&T Bank BORING/WELL No. BH9

DATE STARTED: 8/31/16 DATE COMPLETED: 8/31/16 RECORDED BY: SK

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: 80 °F , Sunny DRILL RIG: Geo-probe DRILLER: Trec. Environmental

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	0.5	0.6-2	U	-	-	14	0 – 0.6 ft. Asphalt
2	0.8	2-4	U	-	-	14	0.6 – 7.5 ft. Brown/gray/red gravely sand (medium, dense, dry)
3	0.7	4-7.5	U	-	-	14	Refusal encountered at ~7.5 ft. bgs.

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~7.5 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 701 East Fayette Street, Syracuse, New York PROJECT No. 16S4107.22

CLIENT: M&T Bank BORING/WELL No. BH10

DATE STARTED: 8/31/16 DATE COMPLETED: 8/31/16 RECORDED BY: SK

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: 80 °F , Sunny DRILL RIG: Geo-probe DRILLER: Trec. Environmental

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	0.6	0.6-2	U	-	-	16	0 – 0.6 ft. Asphalt
2	0.9	2-4	U	-	-	16	0.6 – 2.0 ft. Brown/gray gravely sand (medium, loose, moist)(brick)
3	0.8	4-6	U	-	-	20	2.0 – 7.0 ft. Brown/orange silty clayey sand (fine, dense, dry)
4	0.9	6-8	U	-	-	20	7.0 – 16.0 ft. Brown silty sand (fine, dense, moist)
5	1.0	8-10	U	-	-	8	
6	0.8	10-12	U	-	-	8	
7	NA	12-14	U	-	-	8	
8	NA	14-16	U	-	-	8	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2.0 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 701 East Fayette Street, Syracuse, New York PROJECT No. 16S4107.22

CLIENT: M&T Bank BORING/WELL No. BH11

DATE STARTED: 8/31/16 DATE COMPLETED: 8/31/16 RECORDED BY: SK

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: 80 °F , Sunny DRILL RIG: Geo-probe DRILLER: Trec. Environmental

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	306.7	0.6-2	U	-	-	10	0 – 0.6 ft. Asphalt
2	134.4	2-5.7	U	-	-	10	0.6 – 5.7 ft. Brown/gray silty clayey gravely sand (medium, dense, moist)
							Refusal encountered at ~5.7 ft. bgs.

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~5.7 ft. bgs

Suspect odors detected at ~0.6 – 5.7 ft. bgs.

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 701 East Fayette Street, Syracuse, New York PROJECT No. 16S4107.22

CLIENT: M&T Bank BORING/WELL No. BH12

DATE STARTED: 8/31/16 DATE COMPLETED: 8/31/16 RECORDED BY: SK

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: 80 °F , Sunny DRILL RIG: Geo-probe DRILLER: Trec. Environmental

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	2.0	0.6-2	U	-	-	20	0 – 0.6 ft. Asphalt
2	3.9	2-4	U	-	-	20	0.6 – 2.0 ft. Brown/gray gravely sand (medium, loose, moist)
3	60.6	4-6	U	-	-	12	2.0 – 5.0 ft. Brown/dark brown/gray silty clayey gravely sand (medium, dense, dry)
4	90.8	6-8	U	-	-	12	5.0 – 11.0 ft. Brown/gray/orange silty sand (fine, dense, dry)
5	257.2	8-10	U	-	-	10	11.0 – 16.0 ft. Gray/brown sand (fine, dense, moist)
6	NA	10-12	U	-	-	10	
7	60.6	12-14	U	-	-	10	
8	NA	14-16	U	-	-	10	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~2.0 ft. bgs

Suspect odors detected at ~2.0 – 11.0 ft. bgs.

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc. SUBSURFACE LOG

PROJECT/ LOCATION: 701 East Fayette Street, Syracuse, New York PROJECT No. 16S4107.22

CLIENT: M&T Bank BORING/WELL No. BH13

DATE STARTED: 8/31/16 DATE COMPLETED: 8/31/16 RECORDED BY: SK

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: 80 °F , Sunny DRILL RIG: Geo-probe DRILLER: Trec. Environmental

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	2.6	0.6-2	U	-	-	20	0 – 0.6 ft. Asphalt
2	1.9	2-4	U	-	-	20	0.6 – 1.0 ft. Brown/orange silty clayey sand (medium, loose, dry)
3	237.6	4-6	U	-	-	20	1.0 – 7.0 ft. Brown/orange silty clayey sand (fine, dense, dry)
4	1,136	6-8	U	-	-	20	7.0 – 10.0 ft. Brown/gray/orange silty clayey sand (fine, dense, moist)
							(sheen 8 – 12 ft. bgs.)
5	1,300	8-10	U	-	-	20	
							10.0 – 13.2 ft. Brown/gray silty clayey sand (fine, dense, moist)
6	417.6	10-12	U	-	-	20	
							Refusal encountered at ~13.2 ft. bgs.
7	1,195	12-13.2	U	-	-	14	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~1.0 ft. bgs

Suspect odors detected at ~10.0 – 13.2 ft. bgs.

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

LCS Inc.

SUBSURFACE LOG

PROJECT/ LOCATION: 701 East Fayette Street, Syracuse, New York PROJECT No. 16S4107.22

CLIENT: M&T Bank BORING/WELL No. BH14

DATE STARTED: 8/31/16 DATE COMPLETED: 8/31/16 RECORDED BY: SK

GROUNDWATER DEPTH WHILE DRILLING: NA AFTER COMPLETION: NA

WEATHER: 80 °F , Sunny DRILL RIG: Geo-probe DRILLER: Trec. Environmental

DRILL SIZE/TYPE: Macro-core SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
1	11.8	0.6-2	U	-	-	20	0 – 0.6 ft. Asphalt
2	2.9	2-4	U	-	-	20	0.6 – 1.0 ft. Brown/gray gravely sand (medium, loose, dry)
3	5.3	4-6	U	-	-	14	1.0 – 8.0 ft. Brown/gray silty clayey sand (fine, dense, dry)
4	NA	6-8	U	-	-	14	8.0 – 11.0 ft. Brown/gray silty clayey sand (fine, dense, moist)
5	2.4	8-10	U	-	-	14	11.0 – 11.2 ft. Brown sand (medium, loose, dry)
6	NA	10-11.2	U	-	-	14	Refusal encountered at ~11.2 ft. bgs.

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~1.0 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

ANALYTICAL RESULTS

ANALYTICAL REPORT

September 09, 2016

Lender Consulting Services - NY

Sample Delivery Group:	L857114
Samples Received:	09/01/2016
Project Number:	16S4107.22
Description:	701 East Fayette St - Syracuse, NY
Report To:	Mr. Doug Reid 40 La Riviere Dr., Ste. 120 Buffalo, NY 14202

Entire Report Reviewed By:

T. Alan Harvill
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

BH3 8-10 L857114-01 Solid

Collected by: Shane Kessler
Collected date/time: 08/31/16 09:30
Received date/time: 09/01/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG905064	1	09/05/16 03:10	09/05/16 12:04	KMP
Total Solids by Method 2540 G-2011	WG904770	1	09/02/16 14:20	09/04/16 09:50	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG905608	405	09/07/16 23:29	09/09/16 00:27	JAH

BH5 10-12 L857114-02 Solid

Collected by: Shane Kessler
Collected date/time: 08/31/16 10:45
Received date/time: 09/01/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG905064	1	09/05/16 03:10	09/05/16 07:19	KMP
Total Solids by Method 2540 G-2011	WG904770	1	09/02/16 14:20	09/04/16 09:50	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG905608	1500	09/07/16 23:29	09/09/16 00:48	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG905608	3750	09/07/16 23:29	09/09/16 11:35	JAH

BH8 2-4 L857114-03 Solid

Collected by: Shane Kessler
Collected date/time: 08/31/16 12:45
Received date/time: 09/01/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG905064	10	09/05/16 03:10	09/06/16 07:32	KMP
Total Solids by Method 2540 G-2011	WG904770	1	09/02/16 14:20	09/04/16 09:51	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG905608	172	09/07/16 23:29	09/09/16 01:08	JAH

BH12 8-12 L857114-04 Solid

Collected by: Shane Kessler
Collected date/time: 08/31/16 14:00
Received date/time: 09/01/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG905064	10	09/05/16 03:10	09/06/16 07:57	KMP
Total Solids by Method 2540 G-2011	WG904770	1	09/02/16 14:20	09/04/16 09:51	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG905608	148	09/07/16 23:29	09/09/16 01:28	JAH

BH13 8-10 L857114-05 Solid

Collected by: Shane Kessler
Collected date/time: 08/31/16 15:00
Received date/time: 09/01/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG905064	1	09/05/16 03:10	09/05/16 07:41	KMP
Total Solids by Method 2540 G-2011	WG904770	1	09/02/16 14:20	09/04/16 09:51	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG905608	1500	09/07/16 23:29	09/09/16 01:48	JAH

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.8		1	09/04/2016 09:50	WG904770

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	U		5010	25000	405	09/09/2016 00:27	WG905608
Benzene	334	J	135	501	405	09/09/2016 00:27	WG905608
Bromochloromethane	U		195	501	405	09/09/2016 00:27	WG905608
Bromodichloromethane	U		127	501	405	09/09/2016 00:27	WG905608
Bromoform	U		213	501	405	09/09/2016 00:27	WG905608
Bromomethane	U		672	2500	405	09/09/2016 00:27	WG905608
Carbon disulfide	U		111	501	405	09/09/2016 00:27	WG905608
Carbon tetrachloride	U		165	501	405	09/09/2016 00:27	WG905608
Chlorobenzene	U		106	501	405	09/09/2016 00:27	WG905608
Chlorodibromomethane	U		187	501	405	09/09/2016 00:27	WG905608
Chloroethane	U		474	2500	405	09/09/2016 00:27	WG905608
Chloroform	U		115	2500	405	09/09/2016 00:27	WG905608
Chloromethane	U		188	1250	405	09/09/2016 00:27	WG905608
Cyclohexane	1640		176	501	405	09/09/2016 00:27	WG905608
1,2-Dibromo-3-Chloropropane	U		526	2500	405	09/09/2016 00:27	WG905608
1,2-Dibromoethane	U		172	501	405	09/09/2016 00:27	WG905608
Dichlorodifluoromethane	U		357	2500	405	09/09/2016 00:27	WG905608
1,1-Dichloroethane	U		99.7	501	405	09/09/2016 00:27	WG905608
1,2-Dichloroethane	U		132	501	405	09/09/2016 00:27	WG905608
1,2-Dichlorobenzene	U		153	501	405	09/09/2016 00:27	WG905608
1,3-Dichlorobenzene	U		120	501	405	09/09/2016 00:27	WG905608
1,4-Dichlorobenzene	U		113	501	405	09/09/2016 00:27	WG905608
1,1-Dichloroethene	U		152	501	405	09/09/2016 00:27	WG905608
cis-1,2-Dichloroethene	U		118	501	405	09/09/2016 00:27	WG905608
trans-1,2-Dichloroethene	U		132	501	405	09/09/2016 00:27	WG905608
1,2-Dichloropropane	U		179	501	405	09/09/2016 00:27	WG905608
cis-1,3-Dichloropropene	U		131	501	405	09/09/2016 00:27	WG905608
trans-1,3-Dichloropropene	U		134	501	405	09/09/2016 00:27	WG905608
Ethylbenzene	5600		148	501	405	09/09/2016 00:27	WG905608
2-Hexanone	U		686	5010	405	09/09/2016 00:27	WG905608
Isopropylbenzene	1490	J	122	5010	405	09/09/2016 00:27	WG905608
2-Butanone (MEK)	U		2350	5010	405	09/09/2016 00:27	WG905608
Methyl Acetate	U		3060	10000	405	09/09/2016 00:27	WG905608
Methyl Cyclohexane	6240		190	501	405	09/09/2016 00:27	WG905608
Methylene Chloride	U		501	2500	405	09/09/2016 00:27	WG905608
4-Methyl-2-pentanone (MIBK)	U		941	5010	405	09/09/2016 00:27	WG905608
Methyl tert-butyl ether	U		106	501	405	09/09/2016 00:27	WG905608
Naphthalene	5350		501	2500	405	09/09/2016 00:27	WG905608
Styrene	U		117	501	405	09/09/2016 00:27	WG905608
1,1,2,2-Tetrachloroethane	U		183	501	405	09/09/2016 00:27	WG905608
Tetrachloroethene	U		139	501	405	09/09/2016 00:27	WG905608
Toluene	7770		218	2500	405	09/09/2016 00:27	WG905608
1,2,3-Trichlorobenzene	U		153	501	405	09/09/2016 00:27	WG905608
1,2,4-Trichlorobenzene	U		194	501	405	09/09/2016 00:27	WG905608
1,1,1-Trichloroethane	U		143	501	405	09/09/2016 00:27	WG905608
1,1,2-Trichloroethane	U		139	501	405	09/09/2016 00:27	WG905608
Trichloroethene	U		140	501	405	09/09/2016 00:27	WG905608
Trichlorofluoromethane	U		192	2500	405	09/09/2016 00:27	WG905608
1,1,2-Trichlorotrifluoroethane	U		183	501	405	09/09/2016 00:27	WG905608
Vinyl chloride	U		146	501	405	09/09/2016 00:27	WG905608

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
o-Xylene	9630		183	501	405	09/09/2016 00:27	WG905608
m&p-Xylenes	25300		166	1000	405	09/09/2016 00:27	WG905608
n-Butylbenzene	2230		129	501	405	09/09/2016 00:27	WG905608
sec-Butylbenzene	1320		101	501	405	09/09/2016 00:27	WG905608
tert-Butylbenzene	199	J	103	501	405	09/09/2016 00:27	WG905608
1,2,4-Trimethylbenzene	31100		106	501	405	09/09/2016 00:27	WG905608
1,3,5-Trimethylbenzene	9980		134	501	405	09/09/2016 00:27	WG905608
n-Propylbenzene	4150		103	501	405	09/09/2016 00:27	WG905608
p-Isopropyltoluene	1250		102	501	405	09/09/2016 00:27	WG905608
(S) Toluene-d8	*105*			*88.7-115*		*09/09/2016 00:27*	WG905608
(S) Dibromofluoromethane	*96.6*			*76.3-123*		*09/09/2016 00:27*	WG905608
(S) α,α,α-Trifluorotoluene	*105*			*87.2-117*		*09/09/2016 00:27*	WG905608
(S) 4-Bromofluorobenzene	*101*			*69.7-129*		*09/09/2016 00:27*	WG905608

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Anthracene	49.0		9.00	40.8	1	09/05/2016 12:04	WG905064
Acenaphthylene	40.5	J	9.29	40.8	1	09/05/2016 12:04	WG905064
Acenaphthene	26.4	J	9.12	40.8	1	09/05/2016 12:04	WG905064
Benzo(a)anthracene	28.0	J	5.29	40.8	1	09/05/2016 12:04	WG905064
Benzo(a)pyrene	15.7	J	6.21	40.8	1	09/05/2016 12:04	WG905064
Benzo(b)fluoranthene	24.6	J	8.60	40.8	1	09/05/2016 12:04	WG905064
Benzo(g,h,i)perylene	22.8	J	8.92	40.8	1	09/05/2016 12:04	WG905064
Benzo(k)fluoranthene	14.9	J	6.26	40.8	1	09/05/2016 12:04	WG905064
Chrysene	25.6	J	9.71	40.8	1	09/05/2016 12:04	WG905064
Dibenz(a,h)anthracene	U		7.31	40.8	1	09/05/2016 12:04	WG905064
Fluoranthene	68.6		8.76	40.8	1	09/05/2016 12:04	WG905064
Fluorene	50.3		8.89	40.8	1	09/05/2016 12:04	WG905064
Indeno(1,2,3-cd)pyrene	8.82	J	6.94	40.8	1	09/05/2016 12:04	WG905064
Naphthalene	1690	J6	6.35	40.8	1	09/05/2016 12:04	WG905064
Phenanthrene	154		8.78	40.8	1	09/05/2016 12:04	WG905064
Pyrene	121		9.60	40.8	1	09/05/2016 12:04	WG905064
(S) Nitrobenzene-d5	*95.5*			*28.3-148*		*09/05/2016 12:04*	WG905064
(S) 2-Fluorobiphenyl	*79.1*			*41.4-134*		*09/05/2016 12:04*	WG905064
(S) p-Terphenyl-d14	*67.2*			*35.8-140*		*09/05/2016 12:04*	WG905064

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.2		1	09/04/2016 09:50	WG904770

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	U		18000	90200	1500	09/09/2016 00:48	WG905608
Benzene	7670		487	1800	1500	09/09/2016 00:48	WG905608
Bromochloromethane	U		703	1800	1500	09/09/2016 00:48	WG905608
Bromodichloromethane	U		458	1800	1500	09/09/2016 00:48	WG905608
Bromoform	U		765	1800	1500	09/09/2016 00:48	WG905608
Bromomethane	U		2420	9020	1500	09/09/2016 00:48	WG905608
Carbon disulfide	U		399	1800	1500	09/09/2016 00:48	WG905608
Carbon tetrachloride	U		591	1800	1500	09/09/2016 00:48	WG905608
Chlorobenzene	U		382	1800	1500	09/09/2016 00:48	WG905608
Chlorodibromomethane	U		673	1800	1500	09/09/2016 00:48	WG905608
Chloroethane	U		1710	9020	1500	09/09/2016 00:48	WG905608
Chloroform	U		414	9020	1500	09/09/2016 00:48	WG905608
Chloromethane	U		676	4510	1500	09/09/2016 00:48	WG905608
Cyclohexane	36900		631	1800	1500	09/09/2016 00:48	WG905608
1,2-Dibromo-3-Chloropropane	U		1900	9020	1500	09/09/2016 00:48	WG905608
1,2-Dibromoethane	U		618	1800	1500	09/09/2016 00:48	WG905608
Dichlorodifluoromethane	U		1290	9020	1500	09/09/2016 00:48	WG905608
1,1-Dichloroethane	U		358	1800	1500	09/09/2016 00:48	WG905608
1,2-Dichloroethane	U		478	1800	1500	09/09/2016 00:48	WG905608
1,2-Dichlorobenzene	U		551	1800	1500	09/09/2016 00:48	WG905608
1,3-Dichlorobenzene	U		430	1800	1500	09/09/2016 00:48	WG905608
1,4-Dichlorobenzene	U		408	1800	1500	09/09/2016 00:48	WG905608
1,1-Dichloroethene	U		546	1800	1500	09/09/2016 00:48	WG905608
cis-1,2-Dichloroethene	U		423	1800	1500	09/09/2016 00:48	WG905608
trans-1,2-Dichloroethene	U		476	1800	1500	09/09/2016 00:48	WG905608
1,2-Dichloropropane	U		646	1800	1500	09/09/2016 00:48	WG905608
cis-1,3-Dichloropropene	U		472	1800	1500	09/09/2016 00:48	WG905608
trans-1,3-Dichloropropene	U		481	1800	1500	09/09/2016 00:48	WG905608
Ethylbenzene	134000		536	1800	1500	09/09/2016 00:48	WG905608
2-Hexanone	U		2480	18000	1500	09/09/2016 00:48	WG905608
Isopropylbenzene	22900		438	18000	1500	09/09/2016 00:48	WG905608
2-Butanone (MEK)	U		8440	18000	1500	09/09/2016 00:48	WG905608
Methyl Acetate	U		11000	36100	1500	09/09/2016 00:48	WG905608
Methyl Cyclohexane	113000		685	1800	1500	09/09/2016 00:48	WG905608
Methylene Chloride	U		1800	9020	1500	09/09/2016 00:48	WG905608
4-Methyl-2-pentanone (MIBK)	U		3390	18000	1500	09/09/2016 00:48	WG905608
Methyl tert-butyl ether	U		382	1800	1500	09/09/2016 00:48	WG905608
Naphthalene	55100		1800	9020	1500	09/09/2016 00:48	WG905608
Styrene	U		422	1800	1500	09/09/2016 00:48	WG905608
1,1,2,2-Tetrachloroethane	U		659	1800	1500	09/09/2016 00:48	WG905608
Tetrachloroethene	U		498	1800	1500	09/09/2016 00:48	WG905608
Toluene	346000		783	9020	1500	09/09/2016 00:48	WG905608
1,2,3-Trichlorobenzene	U		552	1800	1500	09/09/2016 00:48	WG905608
1,2,4-Trichlorobenzene	U		700	1800	1500	09/09/2016 00:48	WG905608
1,1,1-Trichloroethane	U		516	1800	1500	09/09/2016 00:48	WG905608
1,1,2-Trichloroethane	U		500	1800	1500	09/09/2016 00:48	WG905608
Trichloroethene	U		503	1800	1500	09/09/2016 00:48	WG905608
Trichlorofluoromethane	U		689	9020	1500	09/09/2016 00:48	WG905608
1,1,2-Trichlorotrifluoroethane	U		659	1800	1500	09/09/2016 00:48	WG905608
Vinyl chloride	U		524	1800	1500	09/09/2016 00:48	WG905608

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
o-Xylene	231000		660	1800	1500	09/09/2016 00:48	WG905608
m&p-Xylenes	659000		599	3610	1500	09/09/2016 00:48	WG905608
n-Butylbenzene	19100		465	1800	1500	09/09/2016 00:48	WG905608
sec-Butylbenzene	8690		363	1800	1500	09/09/2016 00:48	WG905608
tert-Butylbenzene	1270	J	371	1800	1500	09/09/2016 00:48	WG905608
1,2,4-Trimethylbenzene	347000		951	4510	3750	09/09/2016 11:35	WG905608
1,3,5-Trimethylbenzene	119000		480	1800	1500	09/09/2016 00:48	WG905608
n-Propylbenzene	62100		371	1800	1500	09/09/2016 00:48	WG905608
p-Isopropyltoluene	4990		368	1800	1500	09/09/2016 00:48	WG905608
(S) Toluene-d8	*102*			*88.7-115*		*09/09/2016 00:48*	WG905608
(S) Toluene-d8	*104*			*88.7-115*		*09/09/2016 11:35*	WG905608
(S) Dibromofluoromethane	*93.9*			*76.3-123*		*09/09/2016 11:35*	WG905608
(S) Dibromofluoromethane	*93.0*			*76.3-123*		*09/09/2016 00:48*	WG905608
(S) α,α,α-Trifluorotoluene	*103*			*87.2-117*		*09/09/2016 00:48*	WG905608
(S) α,α,α-Trifluorotoluene	*102*			*87.2-117*		*09/09/2016 11:35*	WG905608
(S) 4-Bromofluorobenzene	*99.1*			*69.7-129*		*09/09/2016 11:35*	WG905608
(S) 4-Bromofluorobenzene	*99.8*			*69.7-129*		*09/09/2016 00:48*	WG905608

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Anthracene	U		8.75	39.7	1	09/05/2016 07:19	WG905064
Acenaphthylene	U		9.03	39.7	1	09/05/2016 07:19	WG905064
Acenaphthene	11.9	J	8.86	39.7	1	09/05/2016 07:19	WG905064
Benzo(a)anthracene	5.53	J	5.15	39.7	1	09/05/2016 07:19	WG905064
Benzo(a)pyrene	U		6.03	39.7	1	09/05/2016 07:19	WG905064
Benzo(b)fluoranthene	U		8.35	39.7	1	09/05/2016 07:19	WG905064
Benzo(g,h,i)perylene	U		8.67	39.7	1	09/05/2016 07:19	WG905064
Benzo(k)fluoranthene	U		6.08	39.7	1	09/05/2016 07:19	WG905064
Chrysene	U		9.44	39.7	1	09/05/2016 07:19	WG905064
Dibenz(a,h)anthracene	U		7.10	39.7	1	09/05/2016 07:19	WG905064
Fluoranthene	10.4	J	8.51	39.7	1	09/05/2016 07:19	WG905064
Fluorene	U		8.64	39.7	1	09/05/2016 07:19	WG905064
Indeno(1,2,3-cd)pyrene	U		6.74	39.7	1	09/05/2016 07:19	WG905064
Naphthalene	2860		6.17	39.7	1	09/05/2016 07:19	WG905064
Phenanthrene	14.7	J	8.54	39.7	1	09/05/2016 07:19	WG905064
Pyrene	10.9	J	9.33	39.7	1	09/05/2016 07:19	WG905064
(S) Nitrobenzene-d5	*87.2*			*28.3-148*		*09/05/2016 07:19*	WG905064
(S) 2-Fluorobiphenyl	*75.7*			*41.4-134*		*09/05/2016 07:19*	WG905064
(S) p-Terphenyl-d14	*69.4*			*35.8-140*		*09/05/2016 07:19*	WG905064

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.4		1	09/04/2016 09:51	WG904770

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	U		1860	9310	172	09/09/2016 01:08	WG905608
Benzene	426		50.2	186	172	09/09/2016 01:08	WG905608
Bromochloromethane	U		72.6	186	172	09/09/2016 01:08	WG905608
Bromodichloromethane	U		47.3	186	172	09/09/2016 01:08	WG905608
Bromoform	U		78.9	186	172	09/09/2016 01:08	WG905608
Bromomethane	U		249	931	172	09/09/2016 01:08	WG905608
Carbon disulfide	U		41.1	186	172	09/09/2016 01:08	WG905608
Carbon tetrachloride	U		61.0	186	172	09/09/2016 01:08	WG905608
Chlorobenzene	U		39.5	186	172	09/09/2016 01:08	WG905608
Chlorodibromomethane	U		69.5	186	172	09/09/2016 01:08	WG905608
Chloroethane	U		176	931	172	09/09/2016 01:08	WG905608
Chloroform	U		42.6	931	172	09/09/2016 01:08	WG905608
Chloromethane	U		69.8	465	172	09/09/2016 01:08	WG905608
Cyclohexane	568		65.1	186	172	09/09/2016 01:08	WG905608
1,2-Dibromo-3-Chloropropane	U		196	931	172	09/09/2016 01:08	WG905608
1,2-Dibromoethane	U		63.8	186	172	09/09/2016 01:08	WG905608
Dichlorodifluoromethane	U		133	931	172	09/09/2016 01:08	WG905608
1,1-Dichloroethane	U		37.0	186	172	09/09/2016 01:08	WG905608
1,2-Dichloroethane	U		49.3	186	172	09/09/2016 01:08	WG905608
1,2-Dichlorobenzene	U		56.8	186	172	09/09/2016 01:08	WG905608
1,3-Dichlorobenzene	U		44.5	186	172	09/09/2016 01:08	WG905608
1,4-Dichlorobenzene	U		42.1	186	172	09/09/2016 01:08	WG905608
1,1-Dichloroethene	U		56.4	186	172	09/09/2016 01:08	WG905608
cis-1,2-Dichloroethene	U		43.7	186	172	09/09/2016 01:08	WG905608
trans-1,2-Dichloroethene	U		49.1	186	172	09/09/2016 01:08	WG905608
1,2-Dichloropropane	U		66.7	186	172	09/09/2016 01:08	WG905608
cis-1,3-Dichloropropene	U		48.8	186	172	09/09/2016 01:08	WG905608
trans-1,3-Dichloropropene	U		49.7	186	172	09/09/2016 01:08	WG905608
Ethylbenzene	2150		55.3	186	172	09/09/2016 01:08	WG905608
2-Hexanone	U		255	1860	172	09/09/2016 01:08	WG905608
Isopropylbenzene	3070		45.2	1860	172	09/09/2016 01:08	WG905608
2-Butanone (MEK)	U		871	1860	172	09/09/2016 01:08	WG905608
Methyl Acetate	U		1140	3720	172	09/09/2016 01:08	WG905608
Methyl Cyclohexane	4550		70.8	186	172	09/09/2016 01:08	WG905608
Methylene Chloride	U		186	931	172	09/09/2016 01:08	WG905608
4-Methyl-2-pentanone (MIBK)	U		350	1860	172	09/09/2016 01:08	WG905608
Methyl tert-butyl ether	U		39.5	186	172	09/09/2016 01:08	WG905608
Naphthalene	978		186	931	172	09/09/2016 01:08	WG905608
Styrene	U		43.5	186	172	09/09/2016 01:08	WG905608
1,1,2,2-Tetrachloroethane	U		68.0	186	172	09/09/2016 01:08	WG905608
Tetrachloroethene	U		51.4	186	172	09/09/2016 01:08	WG905608
Toluene	162	J	80.7	931	172	09/09/2016 01:08	WG905608
1,2,3-Trichlorobenzene	U		56.9	186	172	09/09/2016 01:08	WG905608
1,2,4-Trichlorobenzene	U		72.2	186	172	09/09/2016 01:08	WG905608
1,1,1-Trichloroethane	U		53.2	186	172	09/09/2016 01:08	WG905608
1,1,2-Trichloroethane	U		51.5	186	172	09/09/2016 01:08	WG905608
Trichloroethene	U		51.9	186	172	09/09/2016 01:08	WG905608
Trichlorofluoromethane	U		71.1	931	172	09/09/2016 01:08	WG905608
1,1,2-Trichlorotrifluoroethane	U		68.0	186	172	09/09/2016 01:08	WG905608
Vinyl chloride	U		54.1	186	172	09/09/2016 01:08	WG905608

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
o-Xylene	269		68.2	186	172	09/09/2016 01:08	WG905608
m&p-Xylenes	3180		61.8	372	172	09/09/2016 01:08	WG905608
n-Butylbenzene	1830		48.0	186	172	09/09/2016 01:08	WG905608
sec-Butylbenzene	1140		37.4	186	172	09/09/2016 01:08	WG905608
tert-Butylbenzene	117	J	38.3	186	172	09/09/2016 01:08	WG905608
1,2,4-Trimethylbenzene	22700		39.3	186	172	09/09/2016 01:08	WG905608
1,3,5-Trimethylbenzene	5610		49.6	186	172	09/09/2016 01:08	WG905608
n-Propylbenzene	6670		38.3	186	172	09/09/2016 01:08	WG905608
p-Isopropyltoluene	544		38.0	186	172	09/09/2016 01:08	WG905608
(S) Toluene-d8	*104*			*88.7-115*		*09/09/2016 01:08*	WG905608
(S) Dibromofluoromethane	*91.4*			*76.3-123*		*09/09/2016 01:08*	WG905608
(S) α,α,α-Trifluorotoluene	*105*			*87.2-117*		*09/09/2016 01:08*	WG905608
(S) 4-Bromofluorobenzene	*86.7*			*69.7-129*		*09/09/2016 01:08*	WG905608

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Anthracene	255	J	78.8	357	10	09/06/2016 07:32	WG905064
Acenaphthylene	U		81.3	357	10	09/06/2016 07:32	WG905064
Acenaphthene	U		79.8	357	10	09/06/2016 07:32	WG905064
Benzo(a)anthracene	623		46.3	357	10	09/06/2016 07:32	WG905064
Benzo(a)pyrene	660		54.3	357	10	09/06/2016 07:32	WG905064
Benzo(b)fluoranthene	786		75.2	357	10	09/06/2016 07:32	WG905064
Benzo(g,h,i)perylene	558		78.0	357	10	09/06/2016 07:32	WG905064
Benzo(k)fluoranthene	332	J	54.8	357	10	09/06/2016 07:32	WG905064
Chrysene	638		84.9	357	10	09/06/2016 07:32	WG905064
Dibenz(a,h)anthracene	137	J	64.0	357	10	09/06/2016 07:32	WG905064
Fluoranthene	1310		76.6	357	10	09/06/2016 07:32	WG905064
Fluorene	128	J	77.8	357	10	09/06/2016 07:32	WG905064
Indeno(1,2,3-cd)pyrene	379		60.7	357	10	09/06/2016 07:32	WG905064
Naphthalene	530		55.5	357	10	09/06/2016 07:32	WG905064
Phenanthrene	628		76.8	357	10	09/06/2016 07:32	WG905064
Pyrene	1550		84.0	357	10	09/06/2016 07:32	WG905064
(S) Nitrobenzene-d5	*70.2*			*28.3-148*		*09/06/2016 07:32*	WG905064
(S) 2-Fluorobiphenyl	*74.1*			*41.4-134*		*09/06/2016 07:32*	WG905064
(S) p-Terphenyl-d14	*67.2*			*35.8-140*		*09/06/2016 07:32*	WG905064

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.1		1	09/04/2016 09:51	WG904770

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	U		1780	8910	148	09/09/2016 01:28	WG905608
Benzene	279		48.1	178	148	09/09/2016 01:28	WG905608
Bromochloromethane	U		69.4	178	148	09/09/2016 01:28	WG905608
Bromodichloromethane	U		45.3	178	148	09/09/2016 01:28	WG905608
Bromoform	U		75.6	178	148	09/09/2016 01:28	WG905608
Bromomethane	U		238	891	148	09/09/2016 01:28	WG905608
Carbon disulfide	U		39.4	178	148	09/09/2016 01:28	WG905608
Carbon tetrachloride	U		58.4	178	148	09/09/2016 01:28	WG905608
Chlorobenzene	U		37.8	178	148	09/09/2016 01:28	WG905608
Chlorodibromomethane	U		66.4	178	148	09/09/2016 01:28	WG905608
Chloroethane	U		168	891	148	09/09/2016 01:28	WG905608
Chloroform	U		40.8	891	148	09/09/2016 01:28	WG905608
Chloromethane	U		66.8	445	148	09/09/2016 01:28	WG905608
Cyclohexane	322		62.3	178	148	09/09/2016 01:28	WG905608
1,2-Dibromo-3-Chloropropane	U		187	891	148	09/09/2016 01:28	WG905608
1,2-Dibromoethane	U		61.1	178	148	09/09/2016 01:28	WG905608
Dichlorodifluoromethane	U		128	891	148	09/09/2016 01:28	WG905608
1,1-Dichloroethane	U		35.4	178	148	09/09/2016 01:28	WG905608
1,2-Dichloroethane	U		47.2	178	148	09/09/2016 01:28	WG905608
1,2-Dichlorobenzene	255		54.3	178	148	09/09/2016 01:28	WG905608
1,3-Dichlorobenzene	U		42.6	178	148	09/09/2016 01:28	WG905608
1,4-Dichlorobenzene	U		40.2	178	148	09/09/2016 01:28	WG905608
1,1-Dichloroethene	U		53.9	178	148	09/09/2016 01:28	WG905608
cis-1,2-Dichloroethene	U		41.9	178	148	09/09/2016 01:28	WG905608
trans-1,2-Dichloroethene	U		47.1	178	148	09/09/2016 01:28	WG905608
1,2-Dichloropropane	U		63.8	178	148	09/09/2016 01:28	WG905608
cis-1,3-Dichloropropene	U		46.7	178	148	09/09/2016 01:28	WG905608
trans-1,3-Dichloropropene	U		47.5	178	148	09/09/2016 01:28	WG905608
Ethylbenzene	3310		53.0	178	148	09/09/2016 01:28	WG905608
2-Hexanone	U		244	1780	148	09/09/2016 01:28	WG905608
Isopropylbenzene	588	J	43.3	1780	148	09/09/2016 01:28	WG905608
2-Butanone (MEK)	U		834	1780	148	09/09/2016 01:28	WG905608
Methyl Acetate	U		1090	3560	148	09/09/2016 01:28	WG905608
Methyl Cyclohexane	1290		67.6	178	148	09/09/2016 01:28	WG905608
Methylene Chloride	U		178	891	148	09/09/2016 01:28	WG905608
4-Methyl-2-pentanone (MIBK)	U		335	1780	148	09/09/2016 01:28	WG905608
Methyl tert-butyl ether	U		37.8	178	148	09/09/2016 01:28	WG905608
Naphthalene	9480		178	891	148	09/09/2016 01:28	WG905608
Styrene	68.9	J	41.6	178	148	09/09/2016 01:28	WG905608
1,1,2,2-Tetrachloroethane	U		65.0	178	148	09/09/2016 01:28	WG905608
Tetrachloroethene	U		49.1	178	148	09/09/2016 01:28	WG905608
Toluene	827	J	77.3	891	148	09/09/2016 01:28	WG905608
1,2,3-Trichlorobenzene	U		54.5	178	148	09/09/2016 01:28	WG905608
1,2,4-Trichlorobenzene	U		69.1	178	148	09/09/2016 01:28	WG905608
1,1,1-Trichloroethane	U		50.9	178	148	09/09/2016 01:28	WG905608
1,1,2-Trichloroethane	U		49.3	178	148	09/09/2016 01:28	WG905608
Trichloroethene	U		49.7	178	148	09/09/2016 01:28	WG905608
Trichlorofluoromethane	U		68.0	891	148	09/09/2016 01:28	WG905608
1,1,2-Trichlorotrifluoroethane	U		65.0	178	148	09/09/2016 01:28	WG905608
Vinyl chloride	U		51.9	178	148	09/09/2016 01:28	WG905608

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
o-Xylene	6630		65.2	178	148	09/09/2016 01:28	WG905608
m&p-Xylenes	13700		59.1	356	148	09/09/2016 01:28	WG905608
n-Butylbenzene	1140		46.0	178	148	09/09/2016 01:28	WG905608
sec-Butylbenzene	398		35.7	178	148	09/09/2016 01:28	WG905608
tert-Butylbenzene	U		36.7	178	148	09/09/2016 01:28	WG905608
1,2,4-Trimethylbenzene	20300		37.5	178	148	09/09/2016 01:28	WG905608
1,3,5-Trimethylbenzene	5560		47.4	178	148	09/09/2016 01:28	WG905608
n-Propylbenzene	2310		36.7	178	148	09/09/2016 01:28	WG905608
p-Isopropyltoluene	327		36.3	178	148	09/09/2016 01:28	WG905608
(S) Toluene-d8	*105*			*88.7-115*		*09/09/2016 01:28*	WG905608
(S) Dibromofluoromethane	*94.2*			*76.3-123*		*09/09/2016 01:28*	WG905608
(S) α,α,α-Trifluorotoluene	*106*			*87.2-117*		*09/09/2016 01:28*	WG905608
(S) 4-Bromofluorobenzene	*95.0*			*69.7-129*		*09/09/2016 01:28*	WG905608

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Anthracene	190	J	87.6	397	10	09/06/2016 07:57	WG905064
Acenaphthylene	U		90.4	397	10	09/06/2016 07:57	WG905064
Acenaphthene	96.5	J	88.7	397	10	09/06/2016 07:57	WG905064
Benzo(a)anthracene	322	J	51.5	397	10	09/06/2016 07:57	WG905064
Benzo(a)pyrene	300	J	60.4	397	10	09/06/2016 07:57	WG905064
Benzo(b)fluoranthene	347	J	83.6	397	10	09/06/2016 07:57	WG905064
Benzo(g,h,i)perylene	236	J	86.8	397	10	09/06/2016 07:57	WG905064
Benzo(k)fluoranthene	149	J	60.9	397	10	09/06/2016 07:57	WG905064
Chrysene	316	J	94.5	397	10	09/06/2016 07:57	WG905064
Dibenz(a,h)anthracene	U		71.1	397	10	09/06/2016 07:57	WG905064
Fluoranthene	697		85.2	397	10	09/06/2016 07:57	WG905064
Fluorene	170	J	86.5	397	10	09/06/2016 07:57	WG905064
Indeno(1,2,3-cd)pyrene	183	J	67.5	397	10	09/06/2016 07:57	WG905064
Naphthalene	2330		61.7	397	10	09/06/2016 07:57	WG905064
Phenanthrene	682		85.5	397	10	09/06/2016 07:57	WG905064
Pyrene	761		93.4	397	10	09/06/2016 07:57	WG905064
(S) Nitrobenzene-d5	*82.2*			*28.3-148*		*09/06/2016 07:57*	WG905064
(S) 2-Fluorobiphenyl	*77.6*			*41.4-134*		*09/06/2016 07:57*	WG905064
(S) p-Terphenyl-d14	*70.0*			*35.8-140*		*09/06/2016 07:57*	WG905064

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.4		1	09/04/2016 09:51	WG904770

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	U		18000	90000	1500	09/09/2016 01:48	WG905608
Benzene	8460		486	1800	1500	09/09/2016 01:48	WG905608
Bromochloromethane	U		702	1800	1500	09/09/2016 01:48	WG905608
Bromodichloromethane	U		457	1800	1500	09/09/2016 01:48	WG905608
Bromoform	U		763	1800	1500	09/09/2016 01:48	WG905608
Bromomethane	U		2410	9000	1500	09/09/2016 01:48	WG905608
Carbon disulfide	U		398	1800	1500	09/09/2016 01:48	WG905608
Carbon tetrachloride	U		590	1800	1500	09/09/2016 01:48	WG905608
Chlorobenzene	U		381	1800	1500	09/09/2016 01:48	WG905608
Chlorodibromomethane	U		672	1800	1500	09/09/2016 01:48	WG905608
Chloroethane	U		1700	9000	1500	09/09/2016 01:48	WG905608
Chloroform	U		413	9000	1500	09/09/2016 01:48	WG905608
Chloromethane	U		674	4500	1500	09/09/2016 01:48	WG905608
Cyclohexane	8110		630	1800	1500	09/09/2016 01:48	WG905608
1,2-Dibromo-3-Chloropropane	U		1900	9000	1500	09/09/2016 01:48	WG905608
1,2-Dibromoethane	U		617	1800	1500	09/09/2016 01:48	WG905608
Dichlorodifluoromethane	U		1280	9000	1500	09/09/2016 01:48	WG905608
1,1-Dichloroethane	U		357	1800	1500	09/09/2016 01:48	WG905608
1,2-Dichloroethane	U		477	1800	1500	09/09/2016 01:48	WG905608
1,2-Dichlorobenzene	U		549	1800	1500	09/09/2016 01:48	WG905608
1,3-Dichlorobenzene	U		429	1800	1500	09/09/2016 01:48	WG905608
1,4-Dichlorobenzene	U		407	1800	1500	09/09/2016 01:48	WG905608
1,1-Dichloroethene	U		545	1800	1500	09/09/2016 01:48	WG905608
cis-1,2-Dichloroethene	U		422	1800	1500	09/09/2016 01:48	WG905608
trans-1,2-Dichloroethene	U		475	1800	1500	09/09/2016 01:48	WG905608
1,2-Dichloropropane	U		644	1800	1500	09/09/2016 01:48	WG905608
cis-1,3-Dichloropropene	U		471	1800	1500	09/09/2016 01:48	WG905608
trans-1,3-Dichloropropene	U		480	1800	1500	09/09/2016 01:48	WG905608
Ethylbenzene	40100		535	1800	1500	09/09/2016 01:48	WG905608
2-Hexanone	U		2470	18000	1500	09/09/2016 01:48	WG905608
Isopropylbenzene	7200	J	437	18000	1500	09/09/2016 01:48	WG905608
2-Butanone (MEK)	U		8420	18000	1500	09/09/2016 01:48	WG905608
Methyl Acetate	U		11000	36000	1500	09/09/2016 01:48	WG905608
Methyl Cyclohexane	31500		684	1800	1500	09/09/2016 01:48	WG905608
Methylene Chloride	U		1800	9000	1500	09/09/2016 01:48	WG905608
4-Methyl-2-pentanone (MIBK)	U		3380	18000	1500	09/09/2016 01:48	WG905608
Methyl tert-butyl ether	U		381	1800	1500	09/09/2016 01:48	WG905608
Naphthalene	21900		1800	9000	1500	09/09/2016 01:48	WG905608
Styrene	U		421	1800	1500	09/09/2016 01:48	WG905608
1,1,2,2-Tetrachloroethane	U		657	1800	1500	09/09/2016 01:48	WG905608
Tetrachloroethene	U		497	1800	1500	09/09/2016 01:48	WG905608
Toluene	83400		781	9000	1500	09/09/2016 01:48	WG905608
1,2,3-Trichlorobenzene	U		551	1800	1500	09/09/2016 01:48	WG905608
1,2,4-Trichlorobenzene	U		698	1800	1500	09/09/2016 01:48	WG905608
1,1,1-Trichloroethane	U		515	1800	1500	09/09/2016 01:48	WG905608
1,1,2-Trichloroethane	U		499	1800	1500	09/09/2016 01:48	WG905608
Trichloroethene	U		501	1800	1500	09/09/2016 01:48	WG905608
Trichlorofluoromethane	U		687	9000	1500	09/09/2016 01:48	WG905608
1,1,2-Trichlorotrifluoroethane	U		657	1800	1500	09/09/2016 01:48	WG905608
Vinyl chloride	U		523	1800	1500	09/09/2016 01:48	WG905608

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
o-Xylene	64300		659	1800	1500	09/09/2016 01:48	WG905608
m&p-Xylenes	168000		597	3600	1500	09/09/2016 01:48	WG905608
n-Butylbenzene	6230		464	1800	1500	09/09/2016 01:48	WG905608
sec-Butylbenzene	2770		362	1800	1500	09/09/2016 01:48	WG905608
tert-Butylbenzene	U		371	1800	1500	09/09/2016 01:48	WG905608
1,2,4-Trimethylbenzene	129000		379	1800	1500	09/09/2016 01:48	WG905608
1,3,5-Trimethylbenzene	38500		479	1800	1500	09/09/2016 01:48	WG905608
n-Propylbenzene	19900		371	1800	1500	09/09/2016 01:48	WG905608
p-Isopropyltoluene	1790	J	367	1800	1500	09/09/2016 01:48	WG905608
(S) Toluene-d8	*105*			*88.7-115*		*09/09/2016 01:48*	WG905608
(S) Dibromofluoromethane	*92.6*			*76.3-123*		*09/09/2016 01:48*	WG905608
(S) α,α,α-Trifluorotoluene	*105*			*87.2-117*		*09/09/2016 01:48*	WG905608
(S) 4-Bromofluorobenzene	*99.6*			*69.7-129*		*09/09/2016 01:48*	WG905608

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Anthracene	U		8.73	39.6	1	09/05/2016 07:41	WG905064
Acenaphthylene	U		9.01	39.6	1	09/05/2016 07:41	WG905064
Acenaphthene	15.6	J	8.84	39.6	1	09/05/2016 07:41	WG905064
Benzo(a)anthracene	7.92	J	5.13	39.6	1	09/05/2016 07:41	WG905064
Benzo(a)pyrene	6.40	J	6.02	39.6	1	09/05/2016 07:41	WG905064
Benzo(b)fluoranthene	U		8.34	39.6	1	09/05/2016 07:41	WG905064
Benzo(g,h,i)perylene	U		8.65	39.6	1	09/05/2016 07:41	WG905064
Benzo(k)fluoranthene	U		6.07	39.6	1	09/05/2016 07:41	WG905064
Chrysene	U		9.42	39.6	1	09/05/2016 07:41	WG905064
Dibenz(a,h)anthracene	U		7.09	39.6	1	09/05/2016 07:41	WG905064
Fluoranthene	12.7	J	8.49	39.6	1	09/05/2016 07:41	WG905064
Fluorene	U		8.62	39.6	1	09/05/2016 07:41	WG905064
Indeno(1,2,3-cd)pyrene	U		6.73	39.6	1	09/05/2016 07:41	WG905064
Naphthalene	2920		6.15	39.6	1	09/05/2016 07:41	WG905064
Phenanthrene	15.0	J	8.52	39.6	1	09/05/2016 07:41	WG905064
Pyrene	13.3	J	9.31	39.6	1	09/05/2016 07:41	WG905064
(S) Nitrobenzene-d5	*88.7*			*28.3-148*		*09/05/2016 07:41*	WG905064
(S) 2-Fluorobiphenyl	*77.0*			*41.4-134*		*09/05/2016 07:41*	WG905064
(S) p-Terphenyl-d14	*73.2*			*35.8-140*		*09/05/2016 07:41*	WG905064

Method Blank (MB)

(MB) R3161343-1 09/04/16 09:49

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000300			

L857109-04 Original Sample (OS) • Duplicate (DUP)

(OS) L857109-04 09/04/16 09:50 • (DUP) R3161343-3 09/04/16 09:50

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.2	82.7	1	0.502		5

Laboratory Control Sample (LCS)

(LCS) R3161343-2 09/04/16 09:49

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3162437-3 09/08/16 22:14

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Acetone	U		10.0	50.0
Benzene	U		0.270	1.00
Bromodichloromethane	U		0.254	1.00
Bromochloromethane	U		0.390	1.00
Bromoform	U		0.424	1.00
Bromomethane	U		1.34	5.00
n-Butylbenzene	U		0.258	1.00
sec-Butylbenzene	U		0.201	1.00
tert-Butylbenzene	U		0.206	1.00
Carbon disulfide	U		0.221	1.00
Carbon tetrachloride	U		0.328	1.00
Chlorobenzene	U		0.212	1.00
Chlorodibromomethane	U		0.373	1.00
Chloroethane	U		0.946	5.00
Chloroform	U		0.229	5.00
Chloromethane	U		0.375	2.50
Cyclohexane	U		0.350	1.00
1,2-Dibromo-3-Chloropropane	U		1.05	5.00
1,2-Dibromoethane	U		0.343	1.00
1,2-Dichlorobenzene	U		0.305	1.00
1,3-Dichlorobenzene	U		0.239	1.00
1,4-Dichlorobenzene	U		0.226	1.00
Dichlorodifluoromethane	U		0.713	5.00
1,1-Dichloroethane	U		0.199	1.00
1,2-Dichloroethane	U		0.265	1.00
1,1-Dichloroethene	U		0.303	1.00
cis-1,2-Dichloroethene	U		0.235	1.00
trans-1,2-Dichloroethene	U		0.264	1.00
1,2-Dichloropropane	U		0.358	1.00
cis-1,3-Dichloropropene	U		0.262	1.00
trans-1,3-Dichloropropene	U		0.267	1.00
Ethylbenzene	U		0.297	1.00
2-Hexanone	U		1.37	10.0
Isopropylbenzene	U		0.243	10.0
p-Isopropyltoluene	U		0.204	1.00
2-Butanone (MEK)	U		4.68	10.0
Methyl Acetate	U		6.10	20.0
Methyl Cyclohexane	U		0.380	1.00
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		1.88	10.0

Method Blank (MB)

(MB) R3162437-3 09/08/16 22:14

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Methyl tert-butyl ether	U		0.212	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.206	1.00
Styrene	U		0.234	1.00
1,1,2,2-Tetrachloroethane	U		0.365	1.00
Tetrachloroethene	U		0.276	1.00
Toluene	U		0.434	5.00
1,1,2-Trichlorotrifluoroethane	U		0.365	1.00
1,2,3-Trichlorobenzene	U		0.306	1.00
1,2,4-Trichlorobenzene	U		0.388	1.00
1,1,1-Trichloroethane	U		0.286	1.00
1,1,2-Trichloroethane	U		0.277	1.00
Trichloroethene	U		0.279	1.00
Trichlorofluoromethane	U		0.382	5.00
1,2,4-Trimethylbenzene	U		0.211	1.00
1,3,5-Trimethylbenzene	U		0.266	1.00
Vinyl chloride	U		0.291	1.00
o-Xylene	U		0.366	1.00
m&p-Xylenes	U		0.332	2.00
(S) Toluene-d8	*105*			*88.7-115*
(S) Dibromofluoromethane	*97.7*			*76.3-123*
(S) a,a,a-Trifluorotoluene	*106*			*87.2-117*
(S) 4-Bromofluorobenzene	*95.5*			*69.7-129*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3162437-1 09/08/16 20:33 • (LCSD) R3162437-2 09/08/16 20:53

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCSD Result ug/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	84.7	79.2	67.7	63.4	25.3-178			6.63	22.9
Benzene	25.0	24.8	22.8	99.1	91.4	72.6-120			8.06	20
Bromodichloromethane	25.0	26.4	24.9	105	99.5	75.3-119			5.83	20
Bromochloromethane	25.0	25.6	24.1	103	96.3	79.7-123			6.33	20
Bromoform	25.0	29.0	26.8	116	107	69.1-135			8.03	20
Bromomethane	25.0	22.6	20.3	90.4	81.0	23.0-191			10.9	20
n-Butylbenzene	25.0	24.1	22.0	96.5	87.9	74.2-134			9.33	20
sec-Butylbenzene	25.0	27.0	24.7	108	98.7	77.8-129			8.95	20
tert-Butylbenzene	25.0	27.2	25.0	109	99.8	77.2-129			8.59	20
Carbon disulfide	25.0	24.5	23.0	98.1	91.9	49.9-136			6.48	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3162437-1 09/08/16 20:33 • (LCSD) R3162437-2 09/08/16 20:53

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCSD Result ug/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Carbon tetrachloride	25.0	24.3	22.7	97.3	90.8	69.4-129			6.85	20
Chlorobenzene	25.0	28.3	25.3	113	101	78.9-122			10.9	20
Chlorodibromomethane	25.0	29.1	26.4	116	106	76.4-126			9.47	20
Chloroethane	25.0	22.3	20.5	89.4	82.2	47.2-147			8.37	20
Chloroform	25.0	24.0	22.4	95.8	89.6	73.3-122			6.67	20
Chloromethane	25.0	24.7	22.2	98.7	89.0	53.1-135			10.3	20
1,2-Dibromo-3-Chloropropane	25.0	23.7	22.5	94.9	90.2	64.9-131			5.05	20
1,2-Dibromoethane	25.0	27.3	24.9	109	99.7	67.2-121			8.92	20
1,2-Dichlorobenzene	25.0	26.7	24.2	107	96.9	83.6-119			9.91	20
1,3-Dichlorobenzene	25.0	28.6	25.9	114	104	75.9-129			9.92	20
1,4-Dichlorobenzene	25.0	25.9	23.5	104	94.1	81.0-115			9.54	20
Dichlorodifluoromethane	25.0	23.4	21.2	93.5	84.9	50.9-139			9.69	20
1,1-Dichloroethane	25.0	24.6	23.0	98.4	92.0	71.7-125			6.71	20
1,2-Dichloroethane	25.0	23.1	21.5	92.4	86.1	67.2-121			7.07	20
1,1-Dichloroethene	25.0	25.5	23.5	102	94.2	60.6-133			7.84	20
cis-1,2-Dichloroethene	25.0	24.3	22.5	97.0	90.0	76.1-121			7.46	20
trans-1,2-Dichloroethene	25.0	24.6	22.9	98.3	91.6	70.7-124			7.05	20
1,2-Dichloropropane	25.0	28.0	26.0	112	104	76.9-123			7.30	20
cis-1,3-Dichloropropene	25.0	27.1	25.2	108	101	77.3-123			7.16	20
trans-1,3-Dichloropropene	25.0	26.3	24.3	105	97.4	73.0-127			7.55	20
Ethylbenzene	25.0	26.7	23.9	107	95.4	78.6-124			11.3	20
2-Hexanone	125	123	119	98.5	95.2	62.7-150			3.50	20
Isopropylbenzene	25.0	26.9	24.6	108	98.3	79.4-126			9.10	20
p-Isopropyltoluene	25.0	27.9	25.3	112	101	75.4-132			9.73	20
2-Butanone (MEK)	125	98.1	94.2	78.5	75.4	44.5-154			4.09	21.3
Methylene Chloride	25.0	23.6	22.2	94.5	88.9	68.2-119			6.13	20
4-Methyl-2-pentanone (MIBK)	125	129	127	103	101	61.1-138			1.63	20
Methyl tert-butyl ether	25.0	20.0	19.7	80.2	78.8	70.2-122			1.72	20
Naphthalene	25.0	23.2	21.9	92.6	87.4	69.9-132			5.80	20
n-Propylbenzene	25.0	27.0	24.7	108	98.8	80.2-124			8.77	20
Styrene	25.0	27.1	24.3	108	97.3	79.4-124			10.6	20
1,1,2,2-Tetrachloroethane	25.0	25.4	24.2	102	96.8	78.8-124			5.02	20
Tetrachloroethene	25.0	29.2	26.2	117	105	71.1-133			11.1	20
Toluene	25.0	25.1	23.4	101	93.7	76.7-116			7.03	20
1,1,2-Trichlorotrifluoroethane	25.0	27.0	24.0	108	96.1	62.6-138			11.8	20
1,2,3-Trichlorobenzene	25.0	25.4	23.2	102	92.9	72.5-137			8.88	20
1,2,4-Trichlorobenzene	25.0	25.7	23.1	103	92.6	74.0-137			10.5	20
1,1,1-Trichloroethane	25.0	24.2	22.6	96.8	90.2	69.9-127			7.02	20
1,1,2-Trichloroethane	25.0	26.9	24.5	108	97.9	81.9-119			9.34	20
Trichloroethene	25.0	28.1	26.1	112	105	77.2-122			7.10	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3162437-1 09/08/16 20:33 • (LCSD) R3162437-2 09/08/16 20:53

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCSD Result ug/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Trichlorofluoromethane	25.0	25.0	23.1	100	92.4	51.5-151			7.88	20
1,2,4-Trimethylbenzene	25.0	26.9	24.9	108	99.4	77.1-124			7.96	20
1,3,5-Trimethylbenzene	25.0	26.6	24.3	107	97.4	79.0-125			9.04	20
Vinyl chloride	25.0	24.0	21.8	96.1	87.3	58.4-134			9.64	20
o-Xylene	25.0	27.0	24.5	108	98.0	78.5-124			9.74	20
m&p-Xylenes	50.0	53.5	48.0	107	96.0	77.3-124			10.8	20
(S) Toluene-d8				*103*	*105*	*88.7-115*				
(S) Dibromofluoromethane				*95.4*	*95.8*	*76.3-123*				
(S) α,α,α-Trifluorotoluene				*101*	*105*	*87.2-117*				
(S) 4-Bromofluorobenzene				*97.0*	*97.1*	*69.7-129*				

Method Blank (MB)

(MB) R3161414-3 09/05/16 05:29

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Anthracene	U		7.28	33.0
Acenaphthene	U		7.37	33.0
Acenaphthylene	U		7.51	33.0
Benzo(a)anthracene	U		4.28	33.0
Benzo(a)pyrene	U		5.02	33.0
Benzo(b)fluoranthene	U		6.95	33.0
Benzo(g,h,i)perylene	U		7.21	33.0
Benzo(k)fluoranthene	U		5.06	33.0
Chrysene	U		7.85	33.0
Dibenz(a,h)anthracene	U		5.91	33.0
Fluoranthene	U		7.08	33.0
Fluorene	U		7.19	33.0
Indeno(1,2,3-cd)pyrene	U		5.61	33.0
Naphthalene	U		5.13	33.0
Phenanthrene	U		7.10	33.0
Pyrene	U		7.76	33.0
(S) Nitrobenzene-d5	*81.9*			*28.3-148*
(S) 2-Fluorobiphenyl	*79.1*			*41.4-134*
(S) p-Terphenyl-d14	*74.4*			*35.8-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3161414-1 09/05/16 04:46 • (LCSD) R3161414-2 09/05/16 05:08

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCSD Result ug/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	400	341	344	85.3	86.1	50.7-125			0.970	20
Acenaphthylene	400	348	356	87.0	88.9	51.3-126			2.10	20
Anthracene	400	344	351	85.9	87.8	50.5-130			2.20	20
Benzo(a)anthracene	400	329	339	82.2	84.7	54.1-127			3.02	20
Benzo(b)fluoranthene	400	316	332	79.0	83.1	56.1-125			5.05	20
Benzo(k)fluoranthene	400	319	317	79.7	79.2	50.9-129			0.690	20
Benzo(g,h,i)perylene	400	346	353	86.6	88.3	53.3-132			1.88	20
Benzo(a)pyrene	400	363	363	90.8	90.8	54.8-127			0.0800	20
Chrysene	400	335	335	83.8	83.8	55.3-126			0.0800	20
Dibenz(a,h)anthracene	400	337	343	84.3	85.6	52.3-133			1.59	20
Fluoranthene	400	337	343	84.3	85.8	50.1-135			1.76	20
Fluorene	400	341	345	85.3	86.3	52.3-125			1.18	20
Naphthalene	400	321	328	80.2	82.1	47.8-121			2.35	20
Phenanthrene	400	338	342	84.6	85.4	56.0-122			0.960	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3161414-1 09/05/16 04:46 • (LCSD) R3161414-2 09/05/16 05:08

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCSD Result ug/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Pyrene	400	378	390	94.6	97.5	55.6-129			3.02	20
Indeno(1,2,3-cd)pyrene	400	346	347	86.4	86.8	50.1-135			0.480	20
(S) Nitrobenzene-d5				*87.9*	*86.6*	*28.3-148*				
(S) 2-Fluorobiphenyl				*80.9*	*83.0*	*41.4-134*				
(S) p-Terphenyl-d14				*73.7*	*77.9*	*35.8-140*				

L857114-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L857114-01 09/05/16 12:04 • (MS) R3161414-4 09/05/16 12:26 • (MSD) R3161414-5 09/05/16 12:47

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	495	26.4	366	346	68.7	64.6	1	48.3-126			5.74	20
Acenaphthylene	495	40.5	389	375	70.5	67.5	1	48.7-128			3.91	20
Anthracene	495	49.0	356	335	62.1	57.9	1	41.0-133			6.07	20
Benzo(a)anthracene	495	28.0	331	307	61.2	56.4	1	31.6-136			7.35	20
Benzo(b)fluoranthene	495	24.6	309	301	57.4	55.9	1	24.0-134			2.35	24.3
Benzo(k)fluoranthene	495	14.9	322	284	62.2	54.4	1	30.4-134			12.6	24.7
Benzo(g,h,i)perylene	495	22.8	295	273	55.0	50.5	1	19.1-139			7.89	23.4
Benzo(a)pyrene	495	15.7	351	321	67.7	61.8	1	28.0-137			8.71	20.5
Chrysene	495	25.6	340	316	63.6	58.7	1	32.4-137			7.42	20
Dibenz(a,h)anthracene	495	U	288	267	58.2	53.9	1	30.3-135			7.79	22.5
Fluoranthene	495	68.6	344	316	55.7	50.0	1	32.8-139			8.50	20
Fluorene	495	50.3	361	342	62.9	59.0	1	43.0-129			5.44	20
Naphthalene	495	1690	1040	965	0.000	0.000	1	38.1-135	J6	J6	7.52	20
Phenanthrene	495	154	388	362	47.3	42.1	1	36.2-134			6.80	20
Pyrene	495	121	425	401	61.4	56.6	1	30.3-144			5.64	21.7
Indeno(1,2,3-cd)pyrene	495	8.82	294	271	57.7	53.1	1	22.3-139			8.03	23.6
(S) Nitrobenzene-d5					*89.8*	*86.0*		*28.3-148*				
(S) 2-Fluorobiphenyl					*81.0*	*77.5*		*41.4-134*				
(S) p-Terphenyl-d14					*73.5*	*72.7*		*35.8-140*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Conneticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia [1]	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky [1]	90010
Kentucky [2]	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

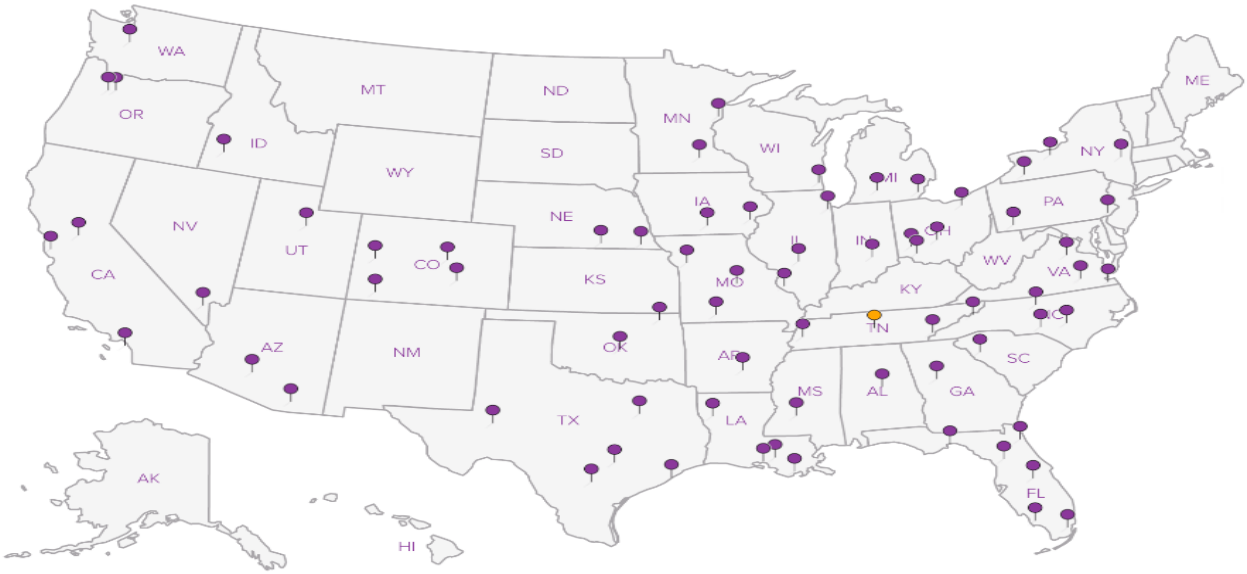
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA – ISO 17025 [5]	1461.02
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Lender Consulting Services - NY

40 La Riviere Dr., Ste. 120
Buffalo, NY 14202

Billing Information:
Accounts Payable
40 La Riviere Dr., Ste. 120
Buffalo, NY 14202

Report to: Mr. Doug Reid

Email To: LCSBNY@esclabsciences.com,dreid@lenderconsulti

Project Description: 701 East Fayette St - Syracuse, NY

City/State Collected: Syracuse, NY

Phone: 716-845-6145
Fax: 716-845-6164

Client Project # 16S4107.22

Lab Project # LCSBNY-16S4107.22

Collected by (print): Shane Kessler

Site/Facility ID #

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed: STD TAT

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L857114

E215

Acctnum: LCSBNY
Template: T115212
Prelogin: P565520
TSR: 364 - T. Alan Harvill
PB: HS 8-24-16
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PAHSIMLVID 40mlAmb-NoPres-WT	SV8270PAHSTARS, TS 4ozAmb-NoPres	V8260TCL / CP-51 40ml/NaHSO4/Syr/MeOH	V8260TCL / CP-51 40mlAmb-HCl	VOC Screen 2ozClr-NoPres						Rem./Contaminant	Sample # (lab only)
BH3 8-10		SS	8-10	~~8/30~~ 8/31	930	5		X	X		X							-01
BH5 10-12		SS	10-12	8/31	1045	5		X	X		X							02
BH8 2-4		SS	2-4	↓	1245	5		X	X		X							03
BH12 8-12		SS	8-12		1400	5		X	X		X							04
BH13 8-10		SS	8-10	↓	1500	5		X	X		X							05
		GW				4	X			X								
		GW				4	X			X								
		GW				4	X			X								

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

6903 4758 6386

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
[signature]	8/31	1700		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4 °C Bottles Received: 30
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9-1-16 Time: 9:00

Condition: (lab use only) OK BWT

COC Seal Intact: ____Y ____N ____NA

pH Checked: NCF:

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Cooler Receipt Checklist

Client: LCSBNY SDG# L857114

Cooler Received/Opened On: 9-1-16 By : Michael Spoon

Temperature Upon Receipt: 3.4 °c

Mint (Signature)

Cooler Receipt Check List	Yes	No	N/A
Were custody seals on outside of cooler and intact?			✓
Were custody papers properly filled out (ink, signed, etc.)?	✓		
Did all bottles arrive in good condition?	✓		
Were correct bottles used for the analyses requested?	✓		
Was sufficient amount of sample sent in each bottle?	✓		
Were correct preservatives used?			✓
Were all applicable sample containers checked for preservation?			✓
(Any samples not in accepted pH range noted on COC .)			
If applicable, was an observable VOA headspace present?			✓
Non Conformance Generated? (If yes see attached NCF)		✓	

LIMITATIONS

This environmental study is limited by the scope of services contained within this report and time frames specified within the contract for services.

This environmental study makes no warranties nor implies any liability regarding:

1. Any impacted media located beneath the on-site structure(s).
2. Any chemical analytes not included within the analytical test methods employed during this study.
3. Any impacted media present from off-site sources not assessed.
4. Any impact at locations and depths not assessed in this study.
5. Any impact at locations where access was limited (i.e., beneath structures, etc.).
6. Vapor Intrusion.

Conclusions and/or recommendations made within the study are based on the interpretation of data collected at individual sample locations and may change if additional data is collected during future study. Conditions between sampling locations are estimated based on available data. Intrusive studies serve to reduce, but not eliminate, the potential environmental risk associated with a property. No study is considered all-inclusive or representative of the entire subject property. Such would be cost prohibitive.