

**SITE CHARACTERIZATION REPORT/
REMEDIAL ACTION PLAN**

Liberty Oil #38
700 North Railroad Street
Tamaqua, Pennsylvania 18252

PA DEP Facility ID #54-51586
USTIF Claim No. 2008-0122

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EXECUTIVE SUMMARY

Center Point Tank Services, Inc. (CPTS), on behalf of Liberty Oil Company and Mr. Norwood Klotz, has prepared this Site Characterization Report (SCR) and Remedial Action Plan (RAP) for the Liberty Oil #38 facility, located at 700 North Railroad Street, Tamaqua Borough, Schuylkill County, Pennsylvania, hereafter referred to as site or the site. This report includes available historical information and detailed site characterization activities, which includes an assessment of soil and groundwater quality.

The site is currently a used automobile sales lot located at 700 N. Railroad Street, in Tamaqua, Pennsylvania. Previously, Liberty Oil #38 was present at the property, and the facility was operated as a retail fuel station. According to the United States Geologic Survey 7.5 minute series, Tamaqua Quadrangle topographic map, the site is situated at an approximate elevation of 820 feet above mean sea level. Site topography is generally flat, but locally slopes gently downward towards the Little Schuylkill River, where it abruptly drops off to the water.

The Liberty 38 facility is located in a mixed use area zoned highway commercial and is currently owned by Liberty Oil Company, Inc. The subject property was purchased in November, 1992 and was operated as a retail fuel station until the storage tanks were taken out of service in 2002, and ultimately closed by removal in 2008.

Several buildings exist onsite; however, none have been determined to be receptors with regard to vapor intrusion into buildings. The site is served with potable water from the Tamaqua Area Water Authority. Portable electric heaters are utilized in occupied buildings onsite, and electricity is supplied to the site via overhead lines.

One diesel fuel and four gasoline underground storage tanks (USTs) ranging in capacity from 3,000 to 6,000-gallon and one diesel UST were removed from the site by CPTS in August 2008. Upon removal, the USTs were inspected and found to be in generally good condition; however, the product piping was found to have several corrosion holes. This corrosion resulted in a release of unleaded gasoline and/or diesel fuel to shallow subsurface soils and ultimately to groundwater which is present in an unconfined overburden aquifer at depths between three and nine feet below grade in the source area. Unleaded gasoline and diesel constituents were detected at concentrations exceeding the SHS in 11 samples collected during the soil boring investigations. In these samples benzene, ethylbenzene, naphthalene, 1,2,4-Trimethylbenzene (TMB), 1,3,5-TMB and Xylenes were present at concentrations exceeding their respective SHS. As such, those are the contaminants of concern (COCs) in soil.

The current monitoring well network consists of 13 monitoring wells which are sampled on a quarterly basis for leaded and unleaded gasoline constituents as the unleaded gasoline list incorporates the entire diesel shortlist. The dissolved phase groundwater impact has spread downgradient towards the Little Schuylkill River along a plume centerline running from the source area through MW-10 and MW-9. Benzene, Methyl tertiary butyl ether (MTBE), Naphthalene, and 1,2,4-TMB are the COCs in groundwater. Samples collected from the river over the course of five quarters did not contain leaded, unleaded, or diesel constituents at detectable levels.

Throughout the course of groundwater monitoring activities, separate phase hydrocarbons (SPH) has been observed on top of water in five monitoring wells: MW-3, MW-4, MW-7, MW-8, and MW-12. SPH thicknesses have ranged from a discontinuous sheen at MW-12 to 0.73 feet in MW-7. Through the completion of interim remedial actions which included the removal of over 200 tons of impacted soil from the source area; high vacuum extraction events where over 3,000 gallons of SPH and water were removed from the site; and the maintenance of oil absorbing socks in SPH bearing monitoring wells, no measureable SPH is present onsite at this time. Additionally concentrations of dissolved phase COCs in groundwater have either decreasing or stable trends over time.

Given the history of mining in the area, the absence of lead in groundwater, and the absence of the lead scavengers based on soil and groundwater sampling, there is no evidence to support a leaded gasoline release onsite that would necessitate regulatory action at this time under the storage tank regulations. Any leaded gasoline compounds (with the exception of lead in groundwater samples collected from MW-6) were limited to the area in the vicinity of MW-8 and MW-13, have not been detected in groundwater samples collected from the most highly impacted wells, have not been detected in the groundwater samples collected from MW-8 since 2011, and are not driving the characterization or remediation activities at the site.

As the intent is to close the release incident under the site specific standard (SSS) for both soil and groundwater, CPTS intends to perform pathway elimination to ultimately demonstrate attainment of the standard. CPTS will also continue to monitor groundwater quality and maintain oil absorbent socks in the SPH bearing wells as a preventative measure and monitor for the presence of product on at least a quarterly basis. If measurable amounts of SPH are observed in the monitoring well network, CPTS will implement additional vacuum extraction events as necessary to control the transport of additional impact.

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	SITE DESCRIPTION AND BACKGROUND INFORMATION	2
2.1	Facility Description	2
2.2	Local Land Use	2
2.3	UST Closure	3
2.4	Potentially Sensitive Receptors	3
3.0	SITE CHARACTERIZATION ACTIVITIES	5
3.1	Soil Quality Investigation	5
	3.1.1 Soil Sample Locations, Methodology, and Saturation	5
	3.1.2 Soil Quality and Area of Impact	6
3.2	Monitoring Well Installation and Development	7
3.3	Groundwater/Surface Water Sampling	7
3.4	Source Product Rationale	10
3.5	Aquifer Testing	12
3.6	Site Specific Geology and Hydrogeology	12
3.7	Separate Phase Hydrocarbons	14
3.8	Interim Remedial Actions	14
3.9	Fate and Transport Analysis	16
3.10	Vapor Intrusion Assessment	17
3.11	Site Conceptual Model	19
3.12	Baseline Risk Assessment	20
	3.12.1 Exposure Pathway Assessment	20
	3.12.2 Air Exposure Pathways	20
	3.12.3 Groundwater Exposure Pathways	21
	3.12.4 Soil Exposure Pathways	21
	3.12.5 Surface Water Exposure Pathways	22
	3.12.6 Summary of Exposure Scenarios	22
4.0	SELECTION OF REMEDIATION STANDARDS	23
4.1	Soil	23
4.2	Groundwater	24
5.0	REMEDIAL ACTION PLAN	25
6.0	REQUEST TO DISCONTINUE SAMPLING FOR LEADED GASOLINE CONSTITUENTS	26

FIGURES

Figure 1:	Topographic Site Location Map
Figure 2:	Site Plan
Figure 3:	Soil Boring Location Map and Area of Impact
Figure 4:	Groundwater Elevation Contour Map (June 15, 2016)
Figure 5:	Groundwater Elevation Contour Map (September 22, 2016)
Figure 6:	Groundwater Elevation Contour Map (December 14, 2016)
Figure 7:	Groundwater Elevation Contour Map (March 29, 2017)
Figure 8:	Groundwater Elevation Contour Map (June 22, 2017)
Figure 9:	Groundwater Elevation Contour Map (September 20, 2017)
Figure 10:	Groundwater Elevation Contour Map (December 22, 2017)
Figure 11:	Groundwater Elevation Contour Map (March 6, 2018)
Figure 12:	Groundwater Elevation Contour Map (March 27, 2018)
Figure 13:	Groundwater Elevation Contour Map (April 26, 2018)
Figure 14:	Groundwater Elevation Contour Map (May 4, 2018)
Figure 15:	Benzene Isoconcentration Contour Map (June 15, 2016)
Figure 16:	MTBE Isoconcentration Contour Map (June 15, 2016)
Figure 17:	Benzene Isoconcentration Contour Map (September 22, 2016)
Figure 18:	Benzene Isoconcentration Contour Map (December 14, 2016)
Figure 19:	MTBE Isoconcentration Contour Map (December 14, 2016)
Figure 20:	Benzene Isoconcentration Contour Map (March 29, 2017)
Figure 21:	MTBE Isoconcentration Contour Map (March 29, 2017)
Figure 22:	Benzene Isoconcentration Contour Map (June 22, 2017)
Figure 23:	MTBE Isoconcentration Contour Map (June 22, 2017)
Figure 24:	Benzene Isoconcentration Contour Map (September 20, 2017)
Figure 25:	MTBE Isoconcentration Contour Map (September 20, 2017)
Figure 26:	Benzene Isoconcentration Contour Map (March, 27, 2018)
Figure 27:	MTBE Isoconcentration Contour Map (March, 27, 2018)
Figure 28:	Naphthalene Isoconcentration Contour Map (March, 27, 2018)
Figure 29:	1,2,4-TMB Isoconcentration Contour Map (March, 27, 2018)
Figure 30:	Soil Excavation and Sample Locations (May, 2011)

TABLES

Table 1:	Soil Quality Sampling Data Summary
Table 2:	Historical Groundwater Sampling Data Summary

APPENDICES

Appendix A:	Sample QA/QC and Waste Disposal Plans
Appendix B:	UST Closure Report
Appendix C:	Monitoring Well and Soil Boring Logs
Appendix D:	Soil Analytical Data
Appendix E:	Disposal Documentation
Appendix F:	Groundwater and Surface Water Analytical Data
Appendix G:	Aquifer Testing Data
Appendix H:	Mann Kendall Analysis

1.0 INTRODUCTION

Center Point Tank Services, Inc. (CPTS), on behalf of Mr. Norwood Klotz and Liberty Oil Company, Inc. has prepared this Site Characterization Report (SCR) and Remedial Action Plan (RAP) for the Liberty Oil #38 facility located at 700 North Railroad Street, Tamaqua Borough, Schuylkill County, Pennsylvania. The purpose of the investigation is to present a site characterization and a remedial action plan in compliance with Title 25, Chapters §245.309, §245.310 and §245.311, to efficiently address subsurface hydrocarbon compounds at the site.

During fieldwork, CPTS personnel followed all appropriate guidelines as per United States Environmental Protection Agency (EPA) guidelines and Occupational Safety and Health Administration (OSHA) HAZWOPER regulations located in 29 CFR 1910.120. All operations were conducted using modified Level D protection measures with proper respiratory protection equipment and additional protective clothing readily available if site conditions warranted an upgrade to Level C protection.

Site Specific Plans for sample collection Quality Assurance/Quality Control (QA/QC) and waste disposal procedures are included in **Appendix A**.

2.0 SITE DESCRIPTION AND BACKGROUND INFORMATION

2.1 Facility Description

The site is currently a used automobile sales lot located at 700 N. Railroad Street (Route 309 South), Tamaqua Borough, Schuylkill County, Pennsylvania. Previously, Liberty Oil #38 (Liberty 38, site) was present at the property, and the facility was operated as a retail fuel station. According to the United States Geologic Survey 7.5 minute series, Tamaqua Quadrangle topographic map, the site is situated at an approximate elevation of 820 feet above mean sea level. Site topography is generally flat, but locally slopes gently downward towards the Little Schuylkill River, where it abruptly drops off to the water. A Topographic Site Location Map is included as **Figure 1**. A Site Plan including monitoring well locations and other pertinent site features is included as **Figure 2**.

The Liberty 38 facility is located in a mixed use area zoned highway commercial and is currently owned by Liberty Oil Company, Inc. The subject property was purchased in November, 1992 and was operated as a retail fuel station until the storage tanks were taken out of service in 2002, and ultimately closed by removal in 2008.

Several buildings currently exist on site: a storage shed, a small concrete block, slab on grade building with a bathroom which is used for storage, a modular office building, a storage trailer, and a pole barn garage with a car port. None of the site buildings have basements, and currently only the office is inhabited during the work day. The modular office building is not in contact with soil at the site, rather, stone backfill was placed beneath the structure. No skirting is in place between the bottom of the building and grade level.

One diesel fuel and four gasoline underground storage tanks (USTs) ranging in capacity from 3,000 to 6,000-gallon and one diesel UST were removed from the site by CPTS in August 2008. Upon removal, the USTs were inspected and found to be in generally good condition; however, the product piping was found to have several corrosion holes.

According to the current owner, Mr. Klotz, the site is served with potable water from the Tamaqua Area Water Authority. Portable electric heaters are utilized in occupied buildings onsite, and electricity is supplied to the site via overhead lines.

2.2 Local Land Use

Land use near the site is predominantly industrial, commercial and residential. Surrounding properties include the Little Schuylkill River to the north and east, a car dealership to the northeast, Thorn's ATV and Cycle to the southeast, and the Reading and Northern Railroad to the south and west as illustrated on the Site Plan, **Figure 2**.

2.3 UST Closure

CPTS was retained by Liberty Oil Company to remove and dispose of four UST systems at the Liberty 38 facility. Prior to their removal, the UST systems were not in service for several years. According to information supplied by Mr. Klotz the USTs were emptied of fuel and taken out of operation in 2002. CPTS conducted the tank removal and closure during the week of August 12, 2008, and submitted a UST Closure Report dated October 17, 2008. The Closure Report documents the UST closure activities and confirmatory soil sample results for the facility. Based on the Liberty 38 UST Closure Report, one diesel and three gasoline USTs, five dispensers, three pump islands, and their associated piping systems were permanently closed by removal at the site. Based on a review of the tank handling summary report, none of the confirmatory soil samples from the UST excavation areas contained gasoline or diesel constituents at concentrations that exceeded the statewide health standards (SHS); however, the soil samples collected in the gasoline dispenser and piping areas had combinations of one or more unleaded gasoline constituents at concentrations that exceeded the SHS.

CPTS verbally notified the DEP of the suspected release on August 15, 2008. A follow-up written Notification of Contamination (NOC) concerning the suspected release was submitted to the DEP on August 20, 2008. Based on the reported impact, an additional site investigation was required in accordance with the Department of Environmental Protection (DEP) Storage Tank regulations. A copy of the UST Closure Report is included in **Appendix B**, and a summary of the soil sample analytical results are included in **Table 1**.

2.5 Potentially Sensitive Receptors

The site was evaluated for the potential to impact ecological receptors using the screening process described in §250.311. No additional evaluation for potential impacts to ecological receptors is required, as per §250.311(b)(1), because the only constituents on-site are those related to diesel fuel and gasoline, light petroleum products.

As the site is being evaluated for the site specific standard (SSS), CPTS conducted a sensitive receptor survey in the general area of the site to identify any potential receptors that could be impacted by petroleum hydrocarbons in the soil or groundwater. The following is a summary of CPTS's findings during the sensitive receptor survey:

- The subject site is located in a mixed use area consisting of commercial, industrial, and residential properties. The site buildings do not have basements.
- According to a search of the PA Groundwater Inventory System (PAGWIS) via the DEP's eMapPA website, no potable wells are located within one mile of the site.
- Municipal water is supplied to the site and surrounding properties by the Tamaqua Area Municipal Authority.

- The nearest surface water body to the site is the Little Schuylkill River which is located to the north and east of the site, and flows generally to the south and east in the vicinity of the site. Although groundwater flow is generally to the northeast towards the river, surface water flow is generally to the south and east, and five consecutive quarters of samples were collected both upstream and downstream of the site, with no detections of leaded or unleaded gasoline or diesel fuel constituents.

3.0 SITE CHARACTERIZATION ACTIVITIES

CPTS was contracted by Mr. Norwood Klotz of Liberty Oil Company to perform site characterization activities. Site characterization activities performed by CPTS included but were not limited to: a soil quality investigation, monitoring well installation, groundwater sampling, surface water sampling, and soil gas sampling.

3.1 Soil Quality Investigation

To determine the extent of the soil impact that was discovered during the onsite UST removal 65 soil samples were collected from 69 soil borings that were installed throughout the site between 2009 and 2018 via Geoprobe® direct-push drilling techniques. Each soil boring was logged by a CPTS scientist and screened using a photoionization detector (PID) for the relative presence of volatile organic compounds (VOCs) which may be indicative of petroleum hydrocarbon impact.

3.1.1 Soil Sample Locations, Methodology, and Saturation

Soil samples were collected using slightly different methodology during the course of the investigation dependent on the data available at the time and the Professional Geologist designing and/or implementing the sampling plan. Soil samples collected during the initial characterization phase of this investigation (identified as "GP") were selected based on PID readings and field observations. Generally, soil samples were not collected from areas where the PID readings were very high, as it was assumed that these soils would have hydrocarbon concentrations in excess of the SHS; rather, samples were collected in an attempt to delineate the extent of soil impact both horizontally and vertically prior to the installation of the monitoring well network. As a result, many of the deeper soil samples were collected below what is now understood to be the seasonal low water table. Based on review of the laboratory analytical results, these soils were not saturated at the time of sample collection. Three of these samples had less than 80% solids; however, they were all collected from soils located above the high water table. Soil borings installed during the next phase (identified as "LO") were collected on a general grid pattern to further define the extent of soil impact onsite. Soil samples were collected from each of these borings from the area that exhibited the highest PID readings, soil beneath the observed elevated PID readings, and/or the base of the boring as appropriate; if no elevated PID readings were observed throughout the soil column a sample was collected at the base of the boring, or above the water table. Although groundwater elevation data indicates that several of these samples were also collected from below the low water table, none of these soil samples were saturated based on field observations and laboratory analytical results. One sample had less than 80% solids; however, it was collected from above the high water table. Soil samples collected from borings and monitoring wells installed during the most recent phases of site characterization (identified as "SB") were installed to complete the delineation of the extent of soil impact at the site, and are generally located near the edge of the previous soil boring locations and to determine the presence of soil impact off site. Soil samples were collected from these borings in the area exhibiting the highest PID reading and from an area below the high PID reading and above the low water table. If no elevated PID readings were observed, one sample was collected from a representative area above the low water table (as estimated with existing data). Upon analysis of

groundwater elevations offsite in MW-12 and MW-13, the water table is higher than anticipated. Using data collected from monitoring wells MW-1 through MW-10, the low water table at MW-12 and MW-13 was anticipated to be between 8.5 and 11 feet below grade. In the time since their installation; however, the depth to groundwater has been between four and six feet below grade, likely due to abnormally high precipitation and snow melt. Groundwater elevations across the monitoring well network during this same time period have been at or near historic high levels. As such, using the current data at monitoring wells MW-12 and MW-13, the soil sample collected from MW-12 (7.5 feet) and the deeper sample collected from MW-13 (6.5 feet) are both below the low water table. Consistent with the previous rounds of soil sampling, none of these samples was saturated based on laboratory analytical data. Soil boring and monitoring well locations are illustrated on **Figure 3**.

3.1.2 Soil Quality and Area of Impact

A total of 65 soil samples were collected from 69 soil borings and placed in laboratory supplied bottleware and submitted under proper chain of custody documentation for laboratory analysis of the UST leaded and unleaded gasoline short lists, as the diesel fuel short list is included within the unleaded gasoline short list. The samples were analyzed for benzene, ethylbenzene, toluene, xylene, naphthalene, isopropylbenzene (cumene), methyl-tertiary-butyl-ether (MTBE), 1,2,4-Trimethylbenzene (TMB), 1,3,5-TMB, 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), and lead. Soil boring and monitoring well logs are included in **Appendix C**.

Based on a review of laboratory soil quality data and observations made during the installation of soil borings and monitoring wells, one area of soil impact exists onsite. This area is located surrounding the former product piping and gasoline dispenser area; extends northward to the vicinity of MW-8 and southward several feet beyond MW-3 as illustrated on **Figure 3**. No soil samples were collected during the installation of MW-9 and MW-10; however, PID readings remained at background levels above the water table. As such, CPTS is not considering the soil impact to extend offsite beyond Route 309 South in this direction

The following description of soil quality considers only soil samples collected above the seasonal low water table. All analyzed soil samples are presented in **Table 1**; however, those collected from below the seasonal low water table are compared to Direct Contact values for risk assessment purposes, and are not being utilized to determine the area of soil impact, nor demonstrate attainment of a standard.

Gasoline and diesel constituents were detected in several soil samples collected on and offsite. When considering analyzed constituents that could be attributed to leaded gasoline (lead, EDB, and EDC), while there are several soil samples where the laboratory reporting limit exceeds their respective SHS, no concentrations of EDB or EDC were detected above the laboratory reporting limits in any soil sample collected. Lead was detected in each soil sample, and was present at a concentration above the SHS in two soil samples. These sample locations (LO-7 and GP-23); however, do not correlate to the areas where petroleum hydrocarbons are detected at concentrations exceeding the SHS and as such, have not been attributed to a release of leaded gasoline.

Unleaded gasoline and diesel constituents were detected at concentrations exceeding the SHS in 11 samples collected during the soil boring investigations. In these samples benzene, ethylbenzene, naphthalene, 1,2,4-TMB, 1,3,5-TMB and xylenes were present at concentrations exceeding their respective SHS. As such, those are the contaminants of concern (COCs) in soil.

As soil samples were collected to delineate the unleaded gasoline plume both horizontally and vertically, and each of the soil samples that exhibited concentrations of unleaded gasoline and/or diesel constituents at concentrations exceeding the SHS have been bounded below by either the low water table or by soil samples with concentrations of unleaded gasoline constituents below the SHS, and above by at least two feet of un-impacted soil, CPTS has collected sufficient data to delineate the extent of soil impact on site. A soil boring location map which includes an illustration of the area of soil impact is presented as **Figure 3**. Soil boring analytical data is summarized in **Table 1** and the laboratory analytical data sheets are presented in **Appendix D**.

3.2 Monitoring Well Installation and Development

Thirteen monitoring wells were installed on and off site between 2009 and 2018. Monitoring wells were installed to investigate the groundwater quality within the first water bearing zone. Each well was constructed using either two or four inch diameter PVC 0.020 inch slotted well screen, two or four inch diameter solid PVC riser, #2 filter sand pack, and completed to grade using a flush mounted protective casing with a locking well cap. The wells are screened entirely above the soil/bedrock interface and have a minimum of a one foot hydrated bentonite seal above the filter sand pack. Monitoring Well Logs are included as **Appendix C**, and documentation confirming the disposal of soil cuttings generated during monitoring well installation is included as **Appendix E**.

Upon completion of monitoring well installation activities, each new well was developed via pump and surge techniques. The purpose of development is to remove residual soil and rock particles from the well, to enhance hydraulic communication between the wells and the aquifer, and to ensure the future collection of more representative groundwater samples. The water generated during well development was treated with granular activated carbon prior to being discharged to the ground surface.

3.3 Groundwater/Surface Water Sampling

Groundwater samples have been collected from the monitoring well network on generally a quarterly basis since February 2009. Prior to collection of groundwater samples, the depth to water in each monitoring well was measured. These data along with the total well depths and top of casing elevations were used to calculate the volume of groundwater within each well and the groundwater elevation and hydraulic gradient across the site, respectively. Each monitoring well was then purged of three to five well volumes to ensure a representative sampling matrix. During well purging, purge water was treated with granular activated carbon prior to being discharged to the ground surface. Groundwater samples were then placed into laboratory supplied bottleware and submitted to Test America Laboratory of King of Prussia, PA or Edison, New Jersey for analysis of the PA UST short list for leaded and unleaded gasoline constituents EPA Methods 8260C, 8011, and 200.8. Groundwater elevation contour maps

were prepared for each quarter and submitted to the DEP on a quarterly basis. The most recent two years of Groundwater Elevation Contour Maps are included as **Figures 4 through 14**.

Review of the laboratory analytical results indicates that several unleaded gasoline constituents have historically been detected in groundwater samples collected from many of the monitoring wells. Groundwater quality is summarized on **Table 2** and described below:

- Since the 4th quarter 2009, at monitoring wells MW-1, MW-2, or MW-5, and since its installation in 1st quarter of 2016 at MW-11 no leaded or unleaded gasoline constituents have been detected in the groundwater samples collected at concentrations exceeding their respective SHS.
- Cumene, xylenes and 1,3,5-TMB have not been detected at concentrations exceeding their respective SHS in any of the groundwater quality samples collected.
- Toluene has not been detected in groundwater at concentrations exceeding its SHS since 3rd quarter 2012 in any of the groundwater samples collected from the monitoring well network.
- Ethylbenzene has not been detected in groundwater at concentrations exceeding its SHS since 3rd quarter 2014 in any of the groundwater samples collected from the monitoring well network.
- Over the last eight quarters of groundwater monitoring, unleaded gasoline constituents have generally been detected at concentrations exceeding the SHS in groundwater samples collected from MW-3, MW-4, MW-7, MW-8, MW-10, MW-12, and MW-13 as illustrated on the Isoconcentration contour maps included as **Figures 15 through 29**.
- Benzene was the only constituent detected at a concentration exceeding the SHS in the groundwater samples collected from MW-9 over the last eight quarters of monitoring; and on only three occasions. MTBE and cumene were also detected; however, at concentrations below their respective SHS.
- The highest dissolved phase concentrations of unleaded gasoline constituents are typically centered around MW-7, MW-8, and MW-10.
- Recent groundwater samples collected from the historically separate phase hydrocarbon (SPH) bearing wells MW-3, MW-7, and MW-8 indicate that the unleaded constituents previously detected in groundwater samples collected from MW-3 have decreased to below detectable levels when the groundwater level is greater than 6 feet from grade, and benzene is the only constituent present exceeding the SHS when groundwater levels are shallow (less than six feet below grade). Benzene and 1,2,4-TMB are present at concentrations exceeding the SHS in the groundwater samples from both MW-7 and MW-8, and MTBE and Naphthalene are also present at a concentration exceeding the SHS at MW-7.
- Lead is the only leaded gasoline, unleaded gasoline, or diesel constituent ever detected in groundwater samples collected from MW-6. Throughout the course of the project, lead has only been detected in groundwater samples collected from other monitoring wells on three other occasions, and at concentrations below the SHS.
- Based on the groundwater flow direction (to the north and east), the location of the former fuel system (to the southeast of MW-6), and the results of the soil sampling conducted at the property (no lead at concentrations exceeding the SHS between the former fuel system and MW-6), CPTS has concluded that the lead in the groundwater samples from MW-6 is not

resultant of a leaded gasoline release, but rather is likely due to the coal mining derived fill material present underlying the site.

- No leaded or unleaded gasoline constituents were detected in surface water samples collected either upstream or downstream of the dissolved phase plume.
- Benzene, MTBE, Naphthalene, and 1,2,4-TMB are the COCs in groundwater.

Water has historically seeped into the basement of the Thorn's facility, and CPTS collected a sample of this water on November 12, 2009. Based on a review of the laboratory analytical results, no leaded or unleaded gasoline constituents were detected.

Based on data collected during the groundwater monitoring events it appears that groundwater flow is generally to the northeast towards the Little Schuylkill River.

As the river is nearly inaccessible especially in the spring and summer months; and the stream bed and banks are comprised largely of rock, in lieu of installing a rain gauge and stream piezometers on site as requested in the SCR disapproval letter from 2009, CPTS has been gauging the surface of the Little Schuylkill River from a fixed, surveyed point on the upstream side of the bridge. The stream levels have been consistent with the groundwater elevation contours, and rainfall data is available online for the Tamaqua area via a personal weather station network which can be accessed through the Weather Underground website (wunderground.com).

As groundwater flow at the site is towards the river, CPTS collected surface water samples from locations both upstream and downstream from the site. Due to accessibility issues (the river is located within a steep valley) the samples were collected from the upstream and downstream sides of the Route 309 Bridge. Surface water samples were collected for five consecutive quarters and were also analyzed for both leaded and unleaded gasoline. Review of the laboratory analytical results indicates that no leaded or unleaded gasoline constituents were detected in any of the surface water samples. As such, CPTS petitioned the DEP to cease sampling, and the request was approved by the DEP via email dated June 16, 2015, with the understanding that the river would continue to be gauged on a quarterly basis and if there was visual evidence of a release, samples would be collected. As of the date of this report, no evidence of a diesel fuel, leaded or unleaded gasoline release to the Little Schuylkill River has been observed. DEP personnel had previously indicated that orange staining was observed on the bank of the river; however, CPTS has not observed staining in this area of the river, though it has been prevalent approximately 1.5 miles downstream from the site; however, two other streams have also merged in with the River by this point. Based on the surface water sampling results CPTS suspects that the orange staining is not due to petroleum hydrocarbon impact, but rather iron oxidation from soil and bedrock, or from acid mine drainage as the site is located within an area that has undergone many years of coal mining. According to the DEP's eMapPA website, a mine seep is located approximately one mile upstream of the site, and the site is located within an area mapped as abandoned mine land. Groundwater and surface water laboratory analytical data are included in **Appendix F**.

3.4 Source Product Rationale

Based on the UST numbering scheme, it appears that the tanks that were removed in 2008 were the same ones that were originally registered at the site in 1989; therefore, it is possible that these USTs may have once contained leaded gasoline; however, the UST Closure Report indicates that only either unleaded gasoline or diesel fuel was stored in the onsite USTs. Please note that leaded gasoline has not been sold in this area since the 1980s. Based on soil sampling conducted during the UST closure, and the poor condition of the product piping, the source of the release was determined to emanate from the product piping as opposed to the USTs themselves. The product piping was a suction system and in the condition that it was found (severely corroded) it would be very unlikely that leaded gasoline was released as the fuel dispensing system would not have functioned properly for over 20 years with compromised piping.

As detailed in previous sections of this report, of all of the soil samples collected during the UST closure activities, the only soil samples where concentrations of leaded or unleaded gasoline constituents (specifically benzene, ethylbenzene, naphthalene, toluene, 1,2,4-TMB, 1,3,5-TMB and/or xylenes) were present at concentrations exceeding the SHS were from the dispenser areas and piping runs. No leaded gasoline, unleaded gasoline, or diesel constituents were detected at concentrations exceeding the SHS in samples collected in the vicinity of any of the USTs. Due to the very high concentrations of unleaded gasoline constituents in the former piping and dispenser areas, those samples were analyzed at high dilutions, and detection limits for EDB, and EDC were generally elevated to levels exceeding the SHS; however, lead concentrations in these samples were all well below the SHS.

The soil in the vicinity of the former dispenser island was excavated and disposed of off-site in 2011. Post excavation samples (**Figure 30**) indicate that although impacted soils remain in the area, the concentrations are much improved from the samples collected during UST removal, SPH is no longer detected in the adjacent monitoring well MW-4, and only benzene and 1,2,4-TMB were detected at concentrations exceeding the SHS in the post excavation soil samples. No EDB or EDC were detected in the post excavation soil samples; however, MTBE was detected at concentrations below the SHS, which is characteristic of an unleaded gasoline release.

Of the 89 soil samples collected and analyzed, EDC was not detected above the laboratory reporting limits in any samples collected, and EDB was detected in two samples, both below the seasonal low water table. In sample location LO-9 (which was installed in very close proximity to former unleaded gasoline UST #003) EDB was detected at 50.4 micrograms per kilogram (ug/kg), lead was detected at a concentration below even the saturated soil SHS, and EDC was not detected at an order of magnitude below the soil to groundwater SHS. At soil sample location MW-12, EDB was detected at a concentration exceeding the Soil to Groundwater standard; however, it was also collected from below what is currently understood to be the low water table, and the detection is also several orders of magnitude below the Direct Contact value.

When considering analyzed constituents that could be attributed to leaded gasoline (lead, EDB, and EDC), while there are several soil samples where the laboratory reporting limit exceeds their respective SHS, no concentrations of EDB or EDC were detected above the laboratory reporting limits in any soil

sample collected. Lead was detected in each soil sample, and was present at a concentration above the SHS in two soil samples. These sample locations (LO-7 and GP-23); however, do not correlate to the areas where petroleum hydrocarbons are detected at concentrations exceeding the SHS and as such, have not been attributed to a release of leaded gasoline.

Soil boring LO-7 is located directly upgradient of MW-2, and GP-23 is adjacent to MW-8. Lead has never been detected in the groundwater samples collected from either of these monitoring wells.

Given the absence of leaded gasoline constituents EDB and EDC in soil above the water table, the presence of coal mining derived fill material, and information provided on the release location (piping) and history of the UST system operation, CPTS has focused on the characterization and remediation of unleaded gasoline constituents in soil, as that short list includes the compounds included on the short list for diesel fuel as well.

- The highest dissolved phase concentrations of unleaded gasoline and/or diesel fuel constituents are typically centered around MW-7, MW-8, and MW-10 as illustrated on the Isoconcentration contour maps included as **Figures 15 through 29**.
- Lead is the only leaded gasoline, unleaded gasoline, or diesel constituent ever detected in groundwater samples collected from MW-6. Throughout the course of the project, lead has only been detected in groundwater samples collected from other monitoring wells on three other occasions, and at concentrations below the SHS ranging from 0.41 to 0.88 micrograms per Liter (ug/L), and has not been detected beyond MW-6 since 2012.
- Based on the groundwater flow direction (to the north and east), the location of the former fuel system (to the southeast of MW-6), and the results of the soil sampling conducted at the property (no lead at concentrations exceeding the SHS between the former fuel system and MW-6), CPTS has concluded that the lead in the groundwater samples from MW-6 is not resultant of a leaded gasoline release, but rather is likely due to the coal mining derived fill material present underlying the site.
- No leaded or unleaded gasoline constituents were detected in surface water samples collected either upstream or downstream of the dissolved phase plume.
- Leaded gasoline has not been sold in this area since the 1980s.
- There is no documentation confirming the sale of leaded gasoline onsite.
- Leaded gasoline constituents were not detected in the UST closure soil samples, with the exception of lead at a concentration below the SHS.

EDB was detected in groundwater samples from MW-8 in three consecutive quarters between late 2010 and mid-2011, and has not been detected in the seven samples collected from MW-8 since that time, or in groundwater samples from any other monitoring wells.

EDC has been detected at a concentration below the SHS in groundwater samples collected from MW-3 and MW-13 on March 27, 2018, and at a concentration exceeding the SHS in the groundwater sample collected from MW-10 on September 20, 2017.

Given the soil and groundwater characterization data summarized above, CPTS has determined that EDB, EDC and Lead are not contaminants of concern, and that the source products of concern are related to unleaded gasoline and diesel fuel.

3.5 Aquifer Testing

On February 16, 2009 CPTS performed slug testing at monitoring wells MW-1, MW-2, and MW-3. Both rising and falling head tests were conducted and an average hydraulic conductivity (K) was calculated using the rising head test results for MW-1 and MW-2 only as the data collected from MW-3 indicates that the water table may not have fully equilibrated prior to the end of the test. The average K value onsite is 1.61 feet per day. The Aquifer test results and analysis are included in **Appendix G**.

3.6 Site-Specific Geology and Hydrogeology

Based on the US Department of Agriculture (USDA) web soil survey, the site is underlain directly by Urban Land - Udults complex soils which are described as human transported soils, pavement, buildings, and other artificially covered areas. To the north of the site, Dekalb-Rubble land association soils are present. These soils are described as very gravelly to very channery sandy loam which is comprised of residuum weathered from sandstone and shale. To the west are soils described as Udorthents, strip mine. These soils are described as very channery sandy to silty clay loam; man made and altered materials from mixed rock types. Based on personal observation and boring logs, there is a shallow layer of coal silt and sand fill material present likely left over from former local coal mining/processing operations in the area and utilized as backfill and/or grading material along with colluvium and gravel fill material. Additionally, the site is mapped on the DEP eMapPA website as a portion of the abandoned Farley Mine with an abandoned strip mine also present to the west of the facility.

According to the PA Department of Conservation and Natural Resources (DCNR) web mapping application, the site is underlain by the Llewellyn Formation (PI). The Llewellyn Formation is described in Engineering Characteristics of Rocks and Minerals of Pennsylvania (Geyer and Wilshusen, 1982) as interbedded sandstone, siltstone, and conglomerate, which is medium to coarse grained and light gray to brown in color. The Llewellyn contains coal and dark-gray to black shales. There is a reported maximum thickness of 830 feet. Bedding in the Llewellyn is described as moderately well-developed where coal and shale facies are thin. Sandstone, siltstone and conglomeratic areas may be thick to massive. Joints are moderately developed and moderately abundant with a blocky pattern, moderately spaced, regularly sequenced and are described as open and steeply dipping. The Llewellyn formation exhibits slight to moderate weathering at shallow to moderate depth, depending on lithology. Rubble consists of small to medium, flat, elongate fragments to large blocky fragments. The overlying mantle has thin to moderate thickness.

Areas underlain by the Llewellyn express topography with low ridges and valleys in rolling terrain, natural slopes and are stable at moderate angles. There is good surface drainage. The total effective porosity is moderate with a moderate to low permeability. Groundwater yields from wells in the

Llewellyn average 38 gallons per minute (gpm) and high iron and acidity are common aquifer quality problems.

Based on published reports, the subject property and Tamaqua Borough regionally are underlain by the Minersville Synclinorium. The published reports contain a geologic cross section based on a north-south section line through the Synclinorium which runs through Tamaqua proper. Based on the evaluation of this cross section, Tamaqua and the subject property are underlain by a series of east-west trending, southward dipping faults that lie within the synclinorium. Based on the maps, the site lies between the Greenwood and Newkirk Faults within the Llewellyn Formation part of the synclinorium.

A reconnaissance was conducted to look for measureable, accessible outcrops near the site. A large outcrop wall of the Llewellyn shale (IPI), was found near the parking lot at the Tamaqua Railroad Station parking located a couple of blocks south of the site property. A structural measurement made of the outcrop indicated an orientation of N70E/68N. This northeasterly strike is in close agreement with the published strike and dip of the Llewellyn Formation (N77E/72S) measured near the site. Most of the published dips on the geologic map are oriented south in accordance with the southward dipping, faulted synclinorium. CPTS' structural measurement with a northern dip must have been taken from the northern flank of one of the also mapped mini-anticlines rather than from one of the principal synclinorium structures.

Depth to water measurements collected from the monitoring well network between February 2009 and March 2018 ranged from 1.48 feet bgs in MW-1 to 16.45 feet bgs in MW-6. The groundwater elevation at the site is highly influenced by precipitation, and intersects with the level of the Little Schuylkill River northeast of the site. This influence decreases onsite with distance from the river, with an average variation in groundwater elevation of approximately one and one-half feet at MW-5 and MW-9 as compared to approximately four feet over the same time period at MW-1 and MW-3. Historical groundwater elevation data is summarized in **Table 2**. The most recent two years of Groundwater Elevation Contour Maps have been prepared and are included as **Figures 4 through 13** respectively. Based on data collected during the quarterly groundwater gauging and sampling events, it appears that groundwater flow is generally towards the northeast at an average gradient of 0.11 ft/ft.

The calculated K value for the site based on rising head data collected from slug tests at MW-1 and MW-2 is 1.61 feet per day (ft/day) which is consistent with conductivities observed in silty sands and fine sands (2.8 to 0.02 ft/day). As the subsurface materials at the site are generally poorly sorted and consist largely of silt, sand, and gravel, these values are appropriate for the site.

3.7 Separate-Phase Hydrocarbons

Throughout the course of groundwater monitoring activities, SPH has been observed on top of water in five monitoring wells: MW-3, MW-4, MW-7, MW-8, and MW-12. SPH thicknesses have ranged from a discontinuous sheen at MW-12 to 0.73 feet in MW-7.

SPH was detected intermittently on top of groundwater in MW-4 between September 2009 and May 2011. SPH was initially detected at a thickness of 0.53 feet in September 2009, then was not measurable again until the June 2, 2010 groundwater sampling event. Between June 2010 and May 2011 the SPH thickness ranged from 0.03 feet to 0.17 feet. As described in Section 3.6 of this report, in late May 2011 hydrocarbon impacted soils were excavated from the former dispenser area adjacent to MW-4. SPH has not been observed in MW-4 since the completion of the soil excavation, and concentrations of dissolved phase hydrocarbons in groundwater have generally decreased by an order of magnitude in the groundwater samples collected from MW-4 when pre and post excavation samples are compared.

During the course of site characterization and interim remedial actions at the site, SPH has generally been persistent on top of groundwater in monitoring wells MW-3, MW-7 and MW-8. With the exception of times when CPTS was monitoring the SPH bearing wells for recharge following high vacuum extraction (HVE) events (described in Section 3.8), oil absorbing socks have been maintained in these wells since December 2012.

A total of approximately 5.7 gallons of SPH has been recovered via oil absorbing socks between December 2012 and March 2018. No measureable SPH has been observed on top of groundwater since the last vacuum extraction event in November 2015, and only 0.87 gallons of SPH has been recovered since then.

Based on the decreasing amounts of SPH observed and removed from the monitoring well network, current observations indicate that the SPH has largely been removed (0.42 gallons removed in 2016, 0.36 gallons in 2017, and 0.10 gallons to date in 2018), and appears to be controlled by the oil absorbing socks in place. As stated above, the socks are checked on at least a quarterly basis and replaced as needed. Currently, socks are maintained in monitoring wells MW-3, MW-7, MW-8, and MW-12. The socks in monitoring wells MW-7, MW-8, and MW-12 are replaced as needed and are generally $\frac{1}{4}$ to $\frac{1}{2}$ full. A sock continues to be maintained in MW-3; however, only an intermittent sheen has been observed in this location since April of 2016, and no SPH has been absorbed by the socks in that well.

3.8 Interim Remedial Actions

Several Interim remedial actions have been performed at the site during site characterization activities to address the presence of SPH on top of groundwater. These actions have included the maintenance of oil absorbing socks in SPH bearing monitoring wells, several HVE events, and soil removal in the source area.

As detailed in the previous section, given the continued presence of SPH on top of groundwater, CPTS has maintained oil absorbent socks in the SPH bearing wells which are generally monitored on a quarterly basis, unless site conditions warranted more frequent monitoring. A total of approximately 5.7 gallons of SPH has been recovered via oil absorbing socks between December 2012 and March 2018.

Four HVE events have been conducted to date. These events were conducted with a vacuum truck which was fitted with a PVC pipe and rubber Fernco attachment appropriately sized for each monitoring well. The PVC attachment is attached to the hose on the vacuum truck and the vacuum is activated. The 10 foot pipe is then lowered into the monitoring well from the top to preferentially remove SPH on top of the groundwater surface. As the well dewateres, the attachment is lowered into the well and the rubber Fernco fitting is placed on the top of the well casing, creating a sealed environment. This seal allows for the vacuum to not only pull in SPH and impacted water but also pulls vapors from the vadose zone. Once the vacuum stops pulling water from the well, the vacuum is deactivated, and the process begins on the next well while the first recharges. Each well is purged several times during the event. The first event was conducted on October 20, 2009, and was only conducted at MW-4, as at that time it was the only SPH bearing monitoring well. The most recent three events conducted on May 25, 2012, November 19, 2014, and November 13, 2015 due to the presence of a measureable amount of SPH. These three events were conducted at MW-3, MW-7, and MW-8 to remove as much residual SPH and impacted groundwater as possible, and MW-4 in an effort to remove additional impacted groundwater in the source area while MW-3, MW-7 and MW-8 recharged. The oil absorbent socks were not replaced immediately following the HVE events in an effort to gauge SPH rebound as discussed above. A review of the gauging data indicates that no measurable SPH has been observed in any of the monitoring wells since the last HVE event in November 2015. Since that time, the SPH has been controlled by oil absorbing socks, the SPH recovery has dramatically decreased, and has not been absorbed by the socks placed in MW-3 since August, 2016. A total of 3,821 gallons of SPH and impacted groundwater were removed and properly disposed of off-site during the HVE events. Disposal documentation is provided in **Appendix E**.

Impacted soil was removed from the area surrounding the northern end of the former dispenser island during May, 2011. Elevated PID readings and odors began at approximately 3 feet below grade and were observed throughout the excavation activities. The potable water line was encountered during the excavation, and it was suspected to be leaking; however, the water company indicated that it was groundwater present in the piping sheath. A total of 1,126 gallons of water were vacuumed from the excavation and properly disposed of offsite. Confirmatory soil samples were collected following excavation activities from the excavation bottom and sidewalls. Review of the analytical results from the post excavation soil sampling indicates that although impacted soil was able to be removed, benzene and 1,2,4-TMB impacted soils remain in this area. A total of 205.85 tons of soil were removed from the site and were transported to Clean Earth's Hagerstown, MD facility for proper disposal. **Figure 30** illustrates the soil sample locations, the laboratory results are summarized in **Table 1** identified as "EX", and the soil disposal documentation is provided in **Appendix E**.

Since the completion of the soil excavation in 2011, no SPH has been detected in MW-4. This observation combined with the disappearance of measurable SPH at MW-3 and decreasing amounts of

SPH being recovered by the oil absorbing socks since the completion of the HVE events, indicates that the interim remedial actions have been successful in controlling the SPH onsite.

3.9 Fate and Transport Analysis

Due to the success of the interim remedial actions described above, the potential for both gasoline and diesel impact to groundwater, and the potential presence of an offsite source, a numerical model was not utilized to describe the fate and transport of the dissolved COCs at the site (benzene, MTBE, naphthalene, and 1,2,4-TMB).

As detailed in the Conceptual Site Model (Section 3.11 of this report), a release of gasoline and/or diesel fuel occurred onsite, emanating from the former product piping and dispenser islands. This product was released prior to their removal in 2008; however, a specific time that the release began is unknown. The product piping was a suction system, and would not have operated properly in the condition that it was observed to be in in 2008. Based on the soil quality data, the release impacted shallow subsurface soils beginning around three feet below grade and the impact has migrated to groundwater. **Figures 15 through 29** are Isoconcentration maps that illustrate the dissolved phase plume over the past two years. The centerline of the plume appears to be centered on the former dispenser island, and pass through MW-10 where unleaded gasoline constituents remain elevated, to MW-9 where benzene is the only leaded or unleaded gasoline or diesel constituent which is intermittently present at a concentration exceeding the SHS.

A Mann-Kendall analysis was conducted for each of the COCs in each well where it has been detected at a concentration exceeding the SHS over the most recent eight quarters to determine if trends are apparent in the concentrations. No trends for COCs present in the groundwater samples collected from MW-12 and MW-13 could be determined as only two sampling events have been conducted. The following is a description of the results of the trend analysis:

- Benzene is the most widespread contaminant present in groundwater samples collected over the last eight quarters at concentrations exceeding the SHS in monitoring wells MW-3, MW-4, MW-7, MW-8, MW-9, MW-10, MW-12 and MW-13. According to the results of the trend analysis the concentration of benzene is stable at MW-7, decreasing at MW-3, MW-4, MW-8 and MW-9, and probably decreasing at MW-10 all at high confidence levels.
- MTBE concentrations have exceeded the SHS in groundwater samples collected from several monitoring wells; however, it was only detected above the SHS during the last eight quarters of monitoring in groundwater samples collected from MW-4, MW-7, MW-10, and, MW-12. The trend analysis indicates that the concentration of MTBE is decreasing at MW-4, MW-7, and MW-10 at a high confidence factor.
- Naphthalene concentrations have exceeded the SHS at some point over the last eight quarters in MW-7, MW-8, MW-10, and MW-12. According to the analysis, the trends are stable at MW-7 and MW-8 which are historically SPH bearing. The confidence factor is low due to the lack of data collected over time. The trend at MW-10 is decreasing to a high confidence factor.
- Concentrations of 1,2,4-TMB have exceeded the SHS at some point over the last eight quarters in MW-4, MW-7, MW-8, MW-10, MW-12, and MW-13. According to the analysis, the trends are

stable at MW-7 and MW-8 which are historically SPH bearing. The confidence factor is low due to the lack of data collected over time. The trends at MW-4 and MW-10 are decreasing to a high confidence factor.

Copies of the Mann Kendall analysis spreadsheets are provided as **Appendix H**. An analysis of the fate and transport of unleaded gasoline constituents will be reevaluated and/or revised as needed as new data is collected and resubmitted with the Remedial Action Completion Report (RACR).

3.10 Vapor Intrusion Assessment

There are several considerations to determine if the vapor intrusion pathway is a potential concern:

- Inhabited buildings must be close (within 30 horizontal feet, or five vertical feet for petroleum products) to a volatile source;
- There must be at least five feet of soil-like material
- The source concentration must be above some threshold or screening concentration;
- The presence of preferential pathways; and
- The presence of SPH.

There are several buildings present on the former Liberty 38 property. These buildings include storage sheds, an elevated storage trailer, the small concrete block building which is occupied by a bathroom and storage space, a pole barn garage, and a modular building that is currently used as an office. Of these buildings, only the office is an occupied building. This building is a wood frame building of modular construction. The office building has no skirting, and is not in contact with the ground surface, but rather sits atop gravel. The base of the building is open to the air on two sides allowing for fresh air to flow between the ground surface and the floor of the building. Given this, there are no potential receptors onsite, and the vapor intrusion into buildings pathway was not deemed to be a concern at the site for either soil or groundwater.

Offsite, the Thorne's Cycle and ATV building is a two-story concrete block structure with a basement which may be a potential receptor; however, the indoor air quality at the Thorne's site is impacted by site operations which include automotive repairs, vehicles running inside the building, the storage of various hydrocarbons for use in vehicle repairs, and the operation of a coal stove. Additionally, gasoline was previously sold at the facility, and there are two storage tanks onsite still located within 30 feet of the site building. The property owner was unaware of their existence, and no information is available to indicate if the USTs are empty and/or properly closed in place. Based on historic photography, the Thorne's facility also appeared to previously be a gasoline station at one time. Based on a file review conducted by CPTS in 2014, no information was present regarding these USTs. This would indicate that they were not registered and would have likely pre-dated the registration process. It is also likely based on the presumed age of the tanks that they may have contained leaded gasoline. Water has historically seeped into the basement of the Thorne's facility, and CPTS collected a sample of this water on November 12, 2009. Based on a review of the laboratory analytical results, no leaded or unleaded gasoline constituents were detected.

The following table indicates the maximum concentrations observed in groundwater samples collected offsite on the Thorn's property for VOCs as compared to the groundwater screening values (SV_{gw}) for protection of indoor air in a non-residential setting as referenced in Table 1 of the Vapor Intrusion into Buildings from Groundwater and Soil under Act 2 (DEP, January 18, 2017).

Regulated Substance	Maximum Observed Concentration ($\mu\text{g/L}$)	Non-Residential SHS Vapor Intrusion Screening Values ($\mu\text{g/L}$)
Benzene	560	350
Toluene	150	430,000
Ethylbenzene	520	860
Total Xylenes	720	12,000
MTBE	29	96,000
Isopropylbenzene	79	24,000
Naphthalene	160	1,300
1,2,4-Trimethylbenzene	550	750
1,3,5-Trimethylbenzene	180	1,200
1,2-Dibromoethane	ND <0.020	44
1,2-Dichloroethane	2.4	510

Note: ND= Non Detect

Based on the above screening, benzene was the only constituent detected at a concentration exceeding its respective SV_{gw} . As such, the groundwater to indoor air pathway may be complete.

The following table indicates the maximum concentrations of VOCs observed in soil samples collected above the currently observed low water table offsite on the Thorn's property as compared to the soil screening values (SV_{soil}) for protection of indoor air in a non-residential setting as referenced in Table 2 of the Vapor Intrusion into Buildings from Groundwater and Soil under Act 2 (DEP, January 18, 2017).

Regulated Substance	Maximum Observed Concentration ($\mu\text{g/Kg}$)	Non-Residential SHS Vapor Intrusion Screening Values ($\mu\text{g/Kg}$)
Benzene	ND <30.0	130
Toluene	80.5	44,000
Ethylbenzene	155	46,000
MTBE	ND <30.0	1,400
Total Xylenes	348	990,000
Isopropylbenzene	41.5	2,500,000
Naphthalene	67.9	25,000

Regulated Substance	Maximum Observed Concentration (µg/Kg)	Non-Residential SHS Vapor Intrusion Screening Values (µg/Kg)
1,2,4-Trimethylbenzene	525	35,000
1,3,5-Trimethylbenzene	192	210,000
1,2-Dibromoethane	ND <4.93	1.3
1,2-Dichloroethane	ND <300	100

Note: ND= Non Detect;

Based on the above screening, no leaded or unleaded gasoline constituents were detected at concentrations exceeding their respective SV_{soil} . As such, the soil to indoor air pathway is incomplete.

3.11 Conceptual Site Model

The site is currently a used automobile sales lot located at 700 N. Railroad Street, in Tamaqua, Pennsylvania. Previously, Liberty Oil #38 was present at the property, and the facility was operated as a retail fuel station. According to the United States Geologic Survey 7.5 minute series, Tamaqua Quadrangle topographic map, the site is situated at an approximate elevation of 820 feet above mean sea level. Site topography is generally flat, but locally slopes gently downward towards the Little Schuylkill River, where it abruptly drops off to the water.

The Liberty 38 facility is located in a mixed use area zoned highway commercial and is currently owned by Liberty Oil Company, Inc. The subject property was purchased in November, 1992 and was operated as a retail fuel station until the storage tanks were taken out of service in 2002, and ultimately closed by removal in 2008.

Several buildings exist onsite; however, none have been determined to be receptors with regard to vapor intrusion into buildings. The site is served with potable water from the Tamaqua Area Water Authority. Portable electric heaters are utilized in occupied buildings onsite, and electricity is supplied to the site via overhead lines.

One diesel fuel and four gasoline USTs ranging in capacity from 3,000 to 6,000-gallons and one diesel UST were removed from the site by CPTS in August 2008. Upon removal, the USTs were inspected and found to be in generally good condition; however, the product piping was found to have several corrosion holes. This corrosion resulted in a release of unleaded gasoline and/or diesel fuel to shallow subsurface soils and ultimately to groundwater which is present in an unconfined overburden aquifer at depths between three and nine feet below grade in the source area. The dissolved phase groundwater impact has spread downgradient towards the Little Schuylkill River along a plume centerline running from the source area through MW-10 and MW-9. Samples collected from the river over the course of five quarters did not contain leaded, unleaded, or diesel constituents at detectable levels.

Monitoring well MW-9 is the furthest downgradient well along the centerline of the plume. Leaded and unleaded gasoline and diesel constituents are all below their respective SHS with the exception of benzene which is intermittently present at concentrations exceeding the SHS.

Two monitoring wells were installed on the Thorn's Cycle and ATV property across Route 309 from the site. During a geophysical investigation prior to their installation two USTs were identified on the Thorne's property. It is not clear if they have been appropriately closed in place, and due to their age, would have likely contained leaded gasoline. MW-12 is located within approximately 10 feet of these USTs, and it is unknown if the impact observed in that monitoring well is at least in part related to the USTs on that property. Due to the concentration of benzene in groundwater at MW-12, vapor intrusion into the Thorn's building is a potentially complete pathway.

Throughout the course of groundwater monitoring activities, SPH has been observed on top of water in five monitoring wells: MW-3, MW-4, MW-7, MW-8, and MW-12. SPH thicknesses have ranged from a discontinuous sheen at MW-12 to 0.73 feet in MW-7. A total of 205.85 tons of impacted soil was removed from the area surrounding the northern end of the former dispenser island during May, 2011, and SPH has not been detected in groundwater at MW-4 since that time. Oil absorbing socks are maintained in MW-3, MW-7, MW-8, and MW-12 to remove SPH and to inhibit its migration. Additionally, four HVE events were conducted onsite, and a total of 3,821 gallons of SPH and water were removed. These HVE events have significantly reduced the amount of SPH remaining onsite as well as the dissolved phase hydrocarbons present in groundwater both onsite and off-site as evidenced by the disappearance of measureable SPH, the reduced capture of SPH in oil absorbent socks, and the stable and/or decreasing trends in dissolved phase COCs.

3.12 Baseline Risk Assessment

Using DEP-approved EPA and ASTM guidance, this assessment identified potential current and future exposure pathways for human receptors, as per Pennsylvania Code §250.402. Where appropriate, incomplete exposure pathways and constituents that were not found in environmental media exceeding the Statewide Health criteria were eliminated from further consideration. Risk was assessed under a non-residential scenario because the current and future property use is commercial. In this section all potential exposure pathways are reviewed, followed by a baseline risk assessment for the pathways applicable to the site.

3.12.1 Exposure Pathway Assessment

Human and ecological receptors can be exposed to COCs through four major pathway categories: 1) air, 2) groundwater, 3) soil, and 4) surface water. Within each pathway category are specific exposure pathway scenarios. The following is a description of each possible exposure pathway. Pathways pertinent to the site are identified.

3.12.2 Air Exposure Pathways

- Inhalation of vapors volatilized from subsurface soils to the ambient air: Concentrations of several unleaded gasoline constituents are present in soil above the SHS; however, a minimum

of two feet of un-impacted soils are present between impacted soils and ambient air, which restricts volatilized vapor from entering the breathing zone. Considering these factors, this pathway was not considered relevant for this site and was not considered in the risk assessment.

- Inhalation of vapors volatilized from groundwater to the ambient air: Groundwater is not utilized at the site and surrounding properties, rather potable water is supplied by the Tamaqua Area Water Authority, therefore groundwater would not be in contact with ambient air. Several feet of soils are also present between the water table and ambient air which further restricts the volatilization of petroleum hydrocarbons to the breathing zone. As such, this pathway was not considered relevant for the site.
- Inhalation of vapors volatilized from subsurface soil into an enclosed space: This scenario includes vapors entering basements, crawl spaces or subsurface utility vaults, and in some situations, enclosed buildings. According to the Vapor Intrusion Assessment, concentrations of unleaded gasoline constituents in soil within proximity to a receptor are not above their respective soil vapor screening, and as such, this pathway is incomplete.
- Inhalation of vapors volatilized from groundwater into an enclosed space: No receptors are present onsite which would be expected to be impacted by vapor intrusion into buildings; however, one occupied building with a basement is present at the offsite Thorn's Cycle and ATV property. None of the observed concentrations of unleaded gasoline parameters exceed their respective Volatilization to Indoor Air Screening values offsite with the exception of benzene. Therefore, this pathway is potentially complete.

3.12.3 Groundwater Exposure Pathways

- Ingestion of groundwater through a water supply well: Potable water is supplied to the site and surrounding properties via the Tamaqua Area Municipal Authority. Given this, this pathway is deemed incomplete and has not been further considered in this characterization.
- Dermal contact with impacted groundwater: As stated above, water is supplied via the Tamaqua Area Municipal Authority to the site and surrounding properties. As such, this pathway is incomplete and has not been considered further in this investigation.

3.12.4 Soil Exposure Pathways

- Dermal contact and direct ingestion of contaminated soils: There have not been any indications of impact to surface soils as part of this investigation. As such, the surface soils act as a cover to prevent contact with impacted subsurface soils making this pathway incomplete. Furthermore, no leaded or unleaded gasoline constituents were detected at concentrations exceeding the Act 2 Direct Contact values with the exception of 1,2,4-TMB concentrations in some of the piping and/or dispenser island samples. The impacted soils (above the Direct Contact values) located at the northern end of the former dispenser island were later excavated and properly disposed of offsite. Soils with concentrations of 1,2,4-TMB present at concentrations exceeding the Direct Contact values were not removed from the southern portion

of the former dispenser island or the southern piping run; however, later samples in the general vicinity of these samples at similar depths indicates that the concentration of 1,2,4-TMB had either decreased over time or was very isolated to those specific sample locations.

3.12.5 Surface Water Exposure Pathways

- Contact with surface water contaminated by runoff from impacted surface soil: No surface soils were determined to be impacted by the release. Therefore, this pathway is deemed irrelevant and is not considered in the risk assessment.
- Contact with surface water impacted by groundwater discharge: To assess this potential pathway, CPTS collected five consecutive quarters of samples from accessible areas both upstream and downstream of observed groundwater impact. Laboratory analysis of the surface water samples indicates that no leaded or unleaded gasoline constituents were detected at concentrations exceeding their laboratory reporting limits. As such, no impact to the nearest surface water body (the Little Schuylkill River) has been observed and this pathway has been deemed incomplete.

3.12.6 Summary of Exposure Scenarios

After evaluating all of the potential exposure pathways for the site, inhalation of vapors volatilized from groundwater into an enclosed space (indoor air), is a potential exposure pathway for the offsite property, Thorn's Cycle and ATV. Additional assessment will be necessary based on the presence of USTs on the Thorn's property, and the presence of petroleum hydrocarbons within the building.

4.0 SELECTION OF REMEDIATION STANDARDS

4.1 Soil

Although the SSS is being sought for site soils, CPTS used the SHS values for initial comparison to characterize the presence/extent of impact to soil at this site. The applicable SHS values were determined based on the following criteria:

Non-Residential – Previous, current, and future use of the site is commercial therefore the non-residential standard has been selected.

Used aquifer – The site and surrounding properties are provided with potable water via the Tamaqua Area Municipal Authority; however, the more conservative used aquifer values have been selected.

Total Dissolved Solids – Total dissolved solids (TDS) are assumed to be less than or equal to 2,500 parts per million (ppm).

Sample Depth – Soil samples were collected from subsurface (>2') locations.

Soil Saturation – Soil samples were collected from both saturated and non-saturated soil.

Based on the above criteria, the below-listed Non-Residential Soil to Groundwater (TDS less than or equal to 2,500 ppm) numeric values were determined to be the applicable Statewide Health Standards for the contaminants of concern. Saturated standards were utilized for comparison where applicable. Concentrations of leaded and unleaded gasoline in soil samples collected below the seasonal low water table are considered potential groundwater issues, and were not compared to any numerical standard other than Direct Contact for purposes of risk evaluation. These standards are also included in **Table 1**.

Compound	Statewide Health Standard (µg/kg)	Saturated Statewide Health Standard (ug/kg)
Benzene	500	500
Toluene	100,000	100,000
Ethylbenzene	70,000	70,000
Total Xylenes	1,000,000	1,000,000
MTBE	2,000	2,000
Isopropylbenzene	2,500,000	350,000
Naphthalene	25,000	10,000
1,2,4-Trimethylbenzene	35,000	6,200
1,3,5-Trimethylbenzene	120,000	210,000
EDB	5	5
EDC	500	500
Lead	450,000	45,000

4.2 Groundwater

Although the SSS is being sought for site groundwater, CPTS used the SHS values for initial comparison to characterize the presence/extent of impact at this site. The SHS for groundwater at this site was determined based on the following criteria:

Non-Residential – Previous, current, and future use of the site is commercial; therefore the non-residential standard has been selected.

Used aquifer – The site and surrounding properties are provided with potable water via the Tamaqua Area Municipal Authority; however, the more conservative used aquifer values have been selected.

Total Dissolved Solids – TDS are assumed to be less than or equal to 2,500.

Based on the above criteria, the Non-Residential Used Aquifer (TDS less than or equal to 2,500) values were determined to be the applicable Statewide Health Standards for the contaminants of concern. These standards are also included in **Table 2**.

Compound	Statewide Health Standard (µg/L)
Benzene	5
Toluene	1,000
Ethylbenzene	700
Total Xylenes	10,000
MTBE	20
Isopropylbenzene	3,500
Naphthalene	100
1,2,4-Trimethylbenzene	62
1,3,5-Trimethylbenzene	1,200
EDB	0.05
EDC	5
Lead	5

5.0 REMEDIAL ACTION PLAN

As the intent is to close the release incident under the SSS, CPTS intends to perform pathway elimination to ultimately demonstrate attainment of the standard. As detailed in previous sections of this report, groundwater levels have been near historic highs at this site (and across eastern PA) in 2018 as of the date of this report. Additional data will need to be collected from the new off-site monitoring wells to better determine the smear zone and ultimately the extent of the soil impact off site. This data will need to be collected over the course of several additional quarters as the groundwater levels change seasonally. As this data is collected, potential impacts and pathways for exposure (including vapor intrusion into buildings) will be reevaluated. Should the need arise for additional remedial actions to be performed, CPTS will prepare a revised RAP at that time.

CPTS will also continue to monitor groundwater quality and maintain oil absorbent socks in the SPH bearing wells as a preventative measure and monitor product thicknesses on at least a quarterly basis. If measurable amounts of SPH are observed in the monitoring well network, CPTS will implement additional vacuum extraction events as necessary to control the transport of additional impact.

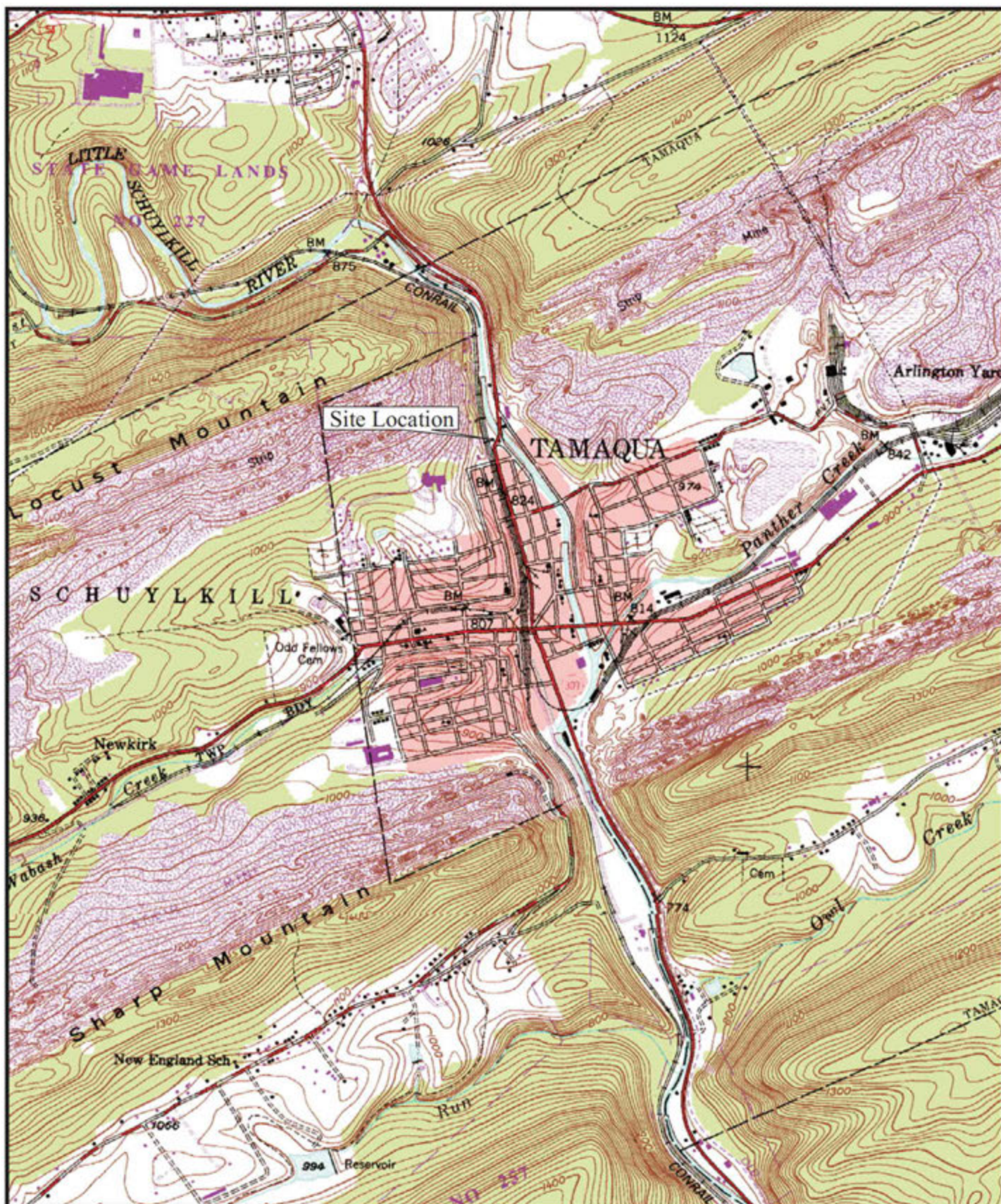
6.0 REQUEST TO DISCONTINUE SAMPLING FOR LEADED GASOLINE CONSTITUENTS

Given the soil and groundwater sampling conducted onsite to date, CPTS, on behalf of Liberty Oil Co. and Mr. Norwood Klotz, is respectfully requesting to discontinue sampling soil and water for leaded gasoline constituents based on the following rationale:

- Leaded gasoline has not been sold in this area since the 1980s.
- There is no documentation confirming the sale of leaded gasoline onsite.
- Leaded gasoline constituents were not detected in the UST closure soil samples, with the exception of lead at a concentration below the SHS.
- The product piping that was in use at the site was a suction system, would not have functioned for over 20 years given the extent of corrosion observed at removal, and therefore would not have released leaded gasoline (if it was in fact dispensed on the site historically).
- EDC has not been detected in any soil samples across the site, and EDB was detected in two soil samples which were both collected below the low water table.
- EDC has been detected at a concentration below the SHS in groundwater samples collected from MW-3 and MW-13 on March 27, 2018, and at a concentration exceeding the SHS in the groundwater sample collected from MW-10 on September 20, 2017.
- EDB was detected in groundwater samples from MW-8 in three quarters between late 2010 and mid-2011, and has not been detected in the five samples collected from MW-8 since that time, or in groundwater samples collected from any other monitoring wells.
- Lead has been detected in soil and in one groundwater sampling location. Given the preponderance of coal mining derived fill material observed across the site, the history of mining in the area, and the absence of EDB and EDC in these sampling locations, the lead impact observed onsite has not been determined to be related to releases from any storage tanks or associated piping and/or dispensers.

Given the above observations, the history of mining in the area, the absence of lead in groundwater, and the absence of the lead scavengers EDB and EDC based on soil and groundwater sampling, there is no evidence to support a leaded gasoline release onsite that would necessitate regulatory action at this time under the storage tank regulations. Any leaded gasoline compounds (with the exception of lead in groundwater samples collected from MW-6) were limited to the area in the vicinity of MW-8 and MW-13, have not been detected in groundwater samples collected from the most highly impacted wells, have not been detected in the groundwater samples collected from MW-8 since 2011, and are not driving the characterization or remediation activities at the site.

FIGURES



CENTER POINT TANK SERVICES, INC.
 536 E. BENJAMIN FRANKLIN HIGHWAY
 DOUGLASSVILLE, PENNSYLVANIA 19518

JOB NO.

DATE:

11/23/09

CHECKED BY:

PSC

DRAWN BY:

WJV

SCALE:

1: 24,000

DRAWING NO.

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TITLE:

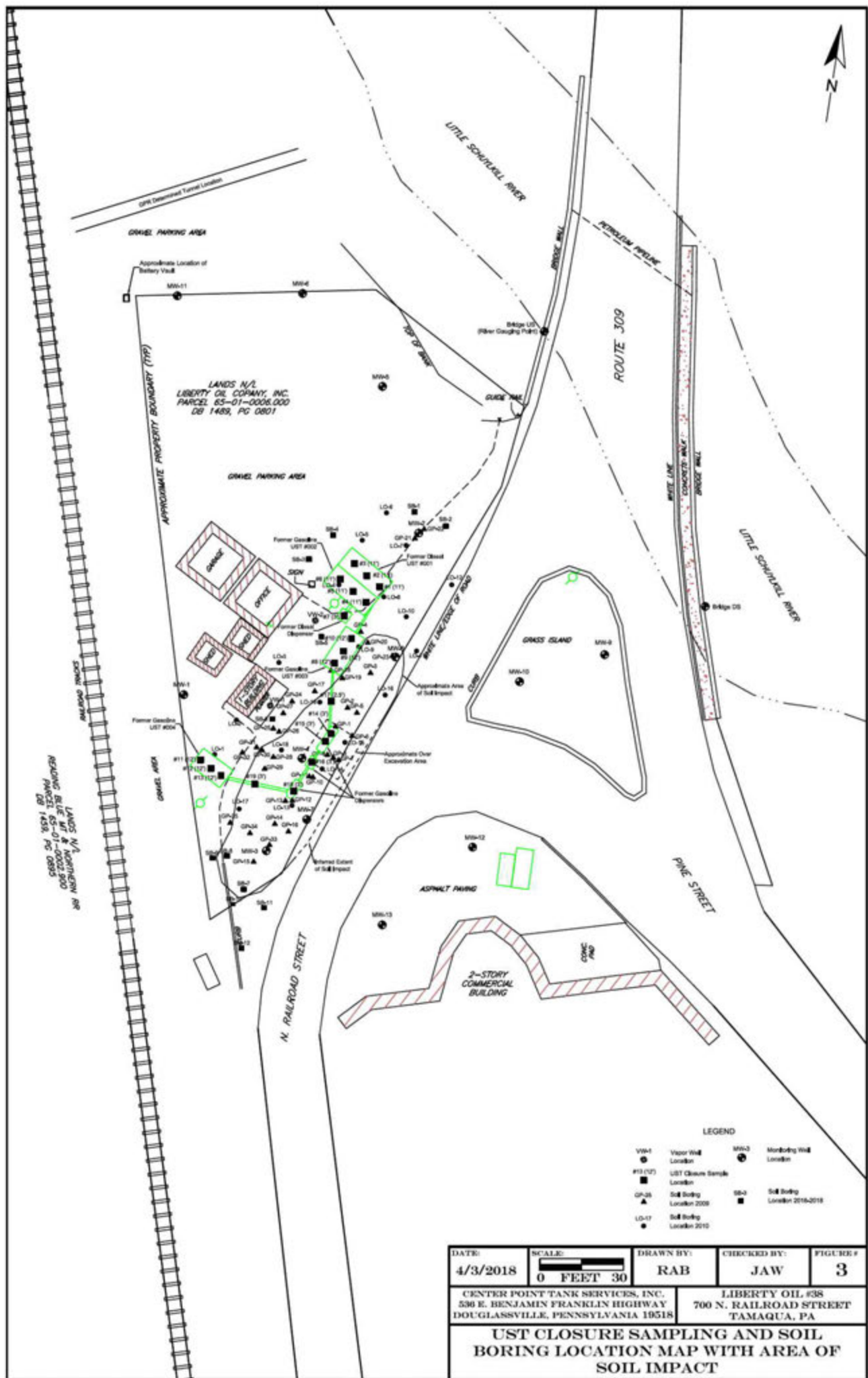
TOPOGRAPHIC SITE LOCATION MAP

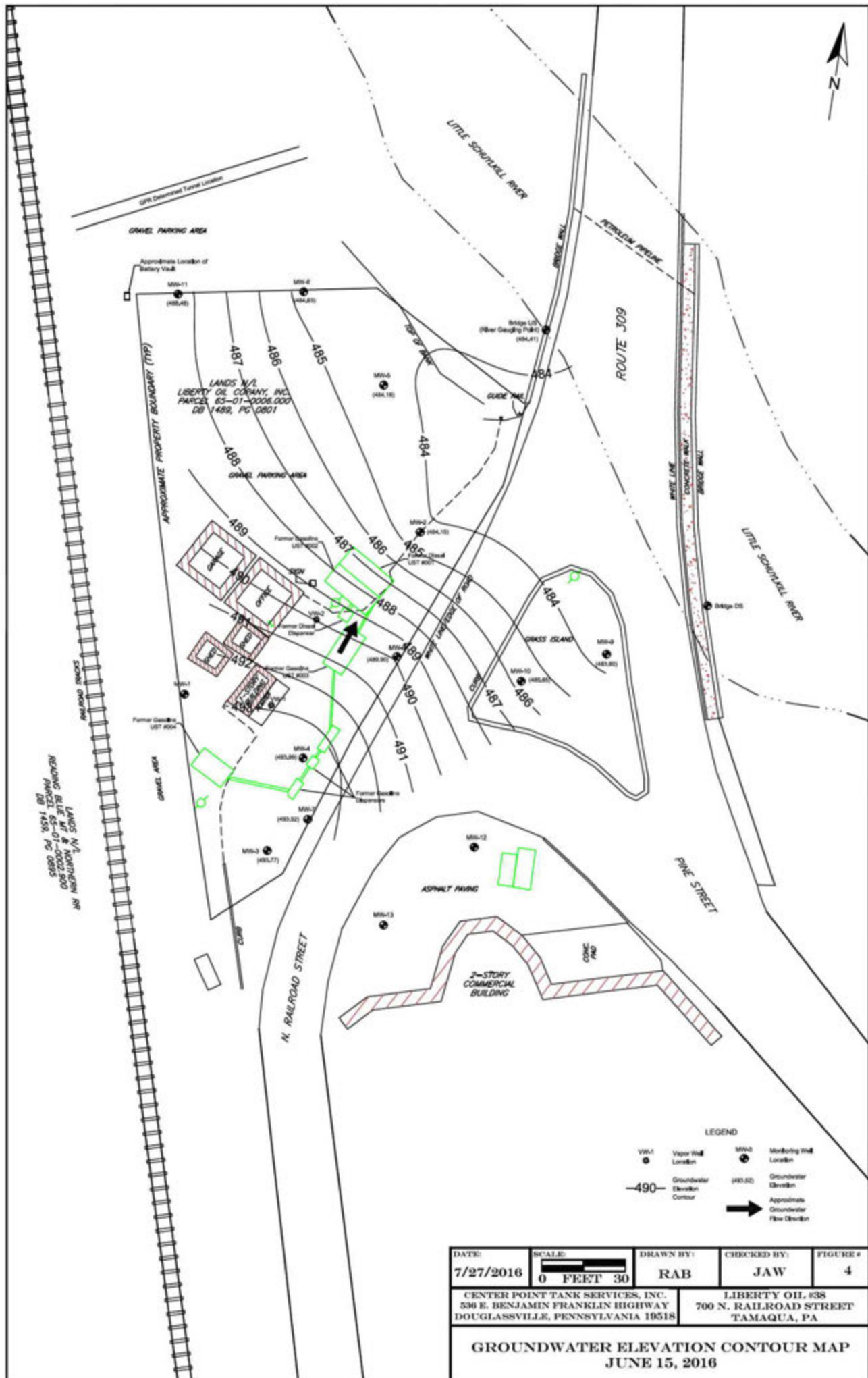
**TAMAQUA, PA
 7.5 MINUTE QUADRANGLE, 1983**

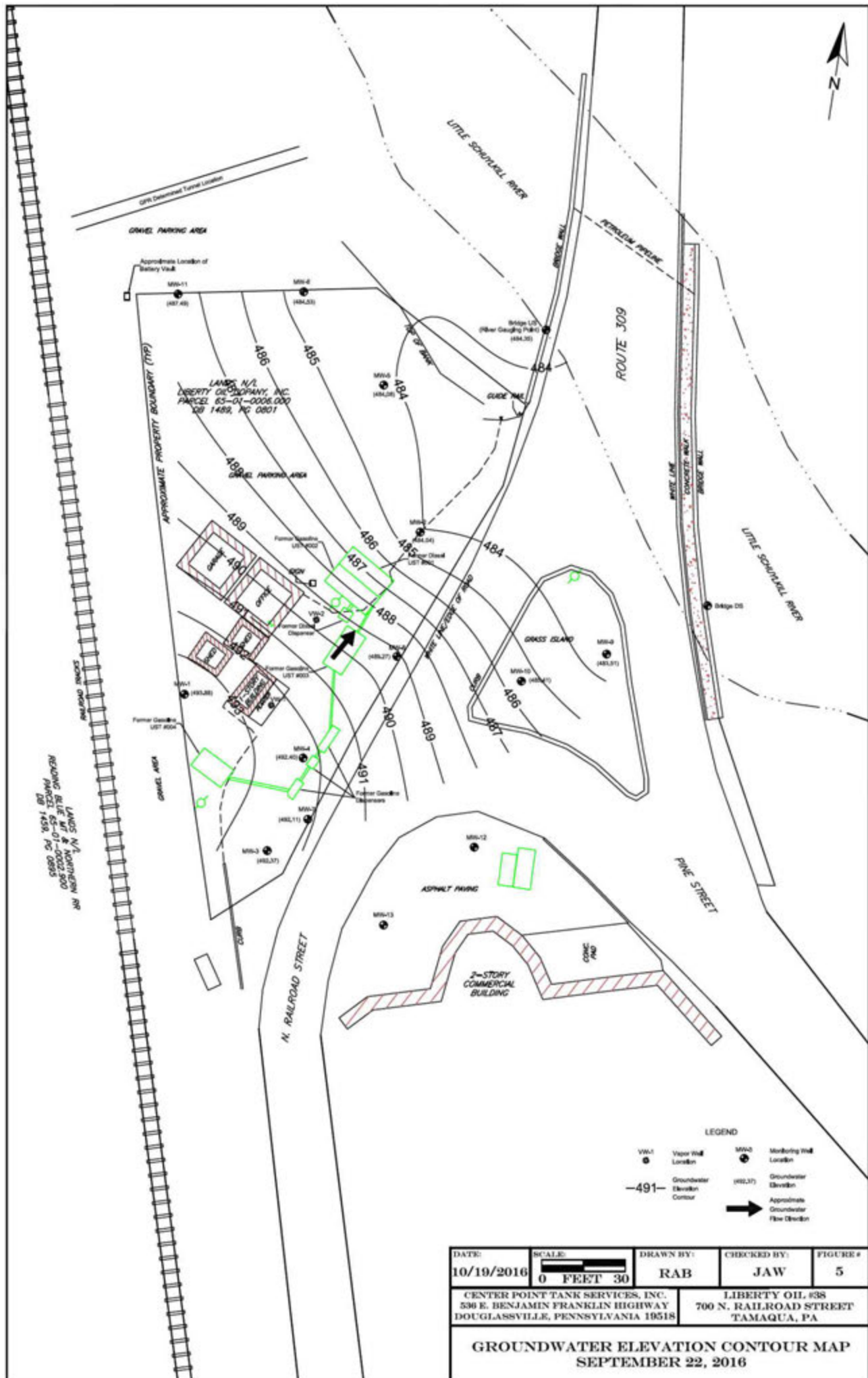
NORTH



LIBERTY OIL COMPANY #38
 700 N. RAILROAD ST.
 TAMAQUA, PA 18252



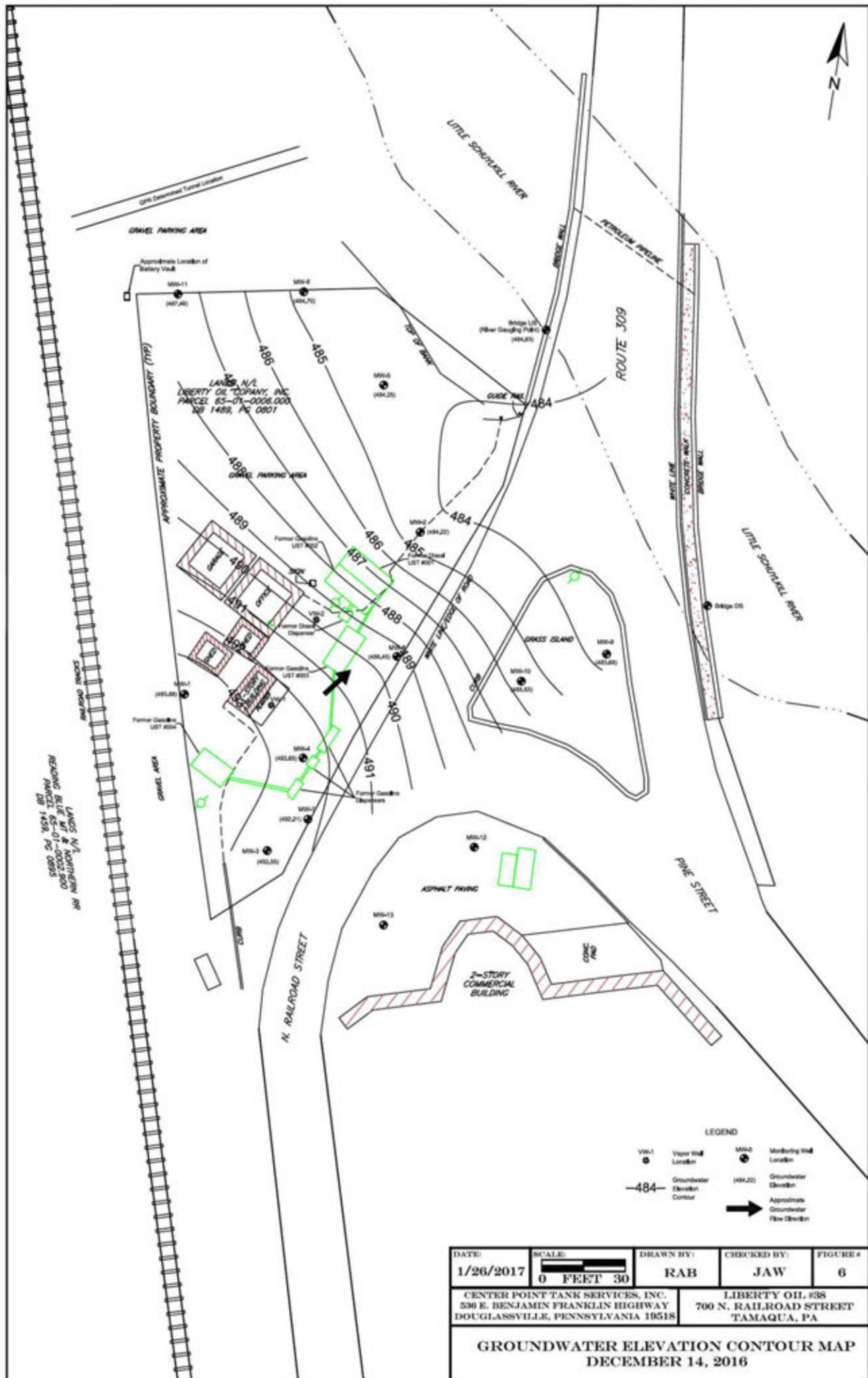


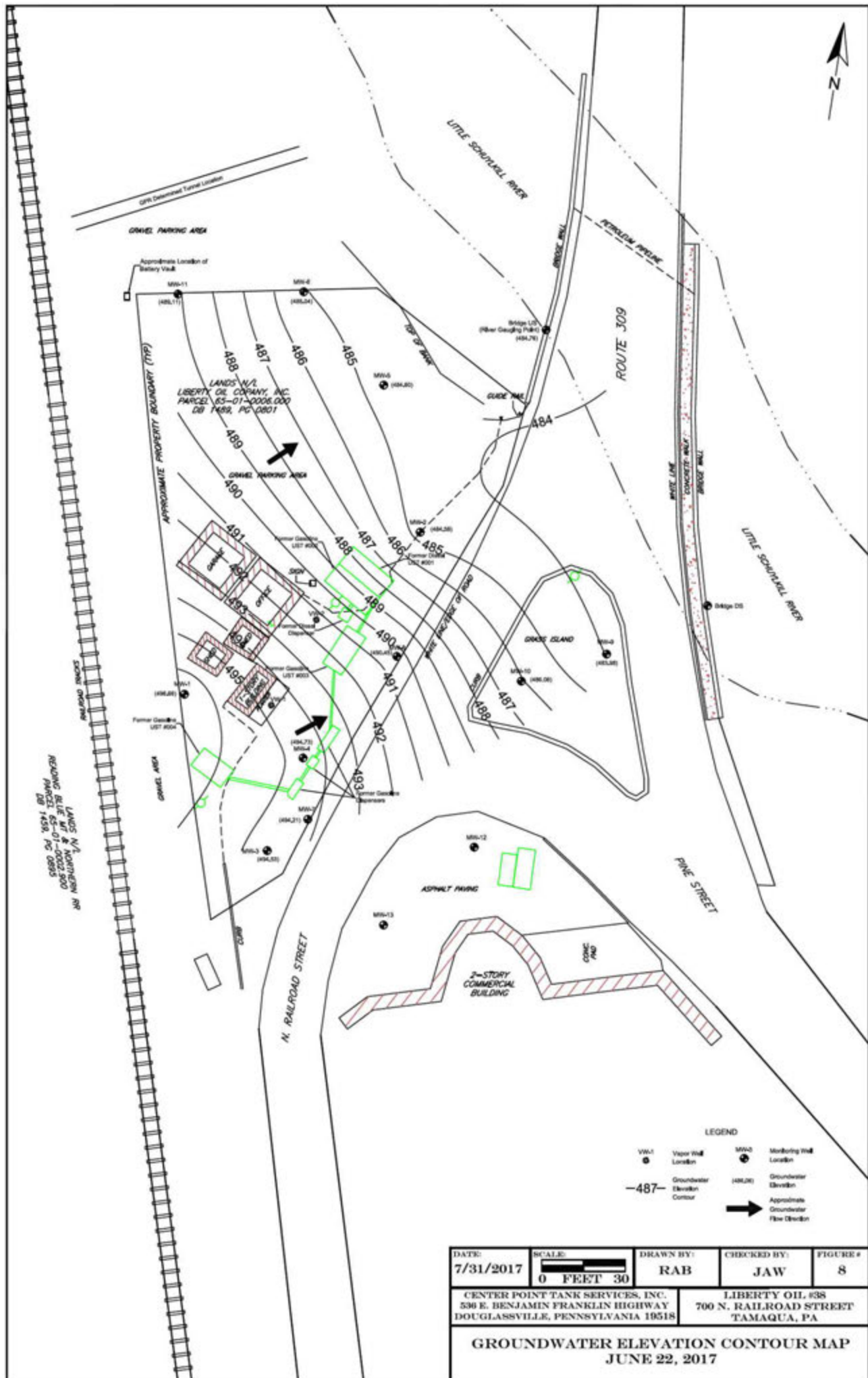


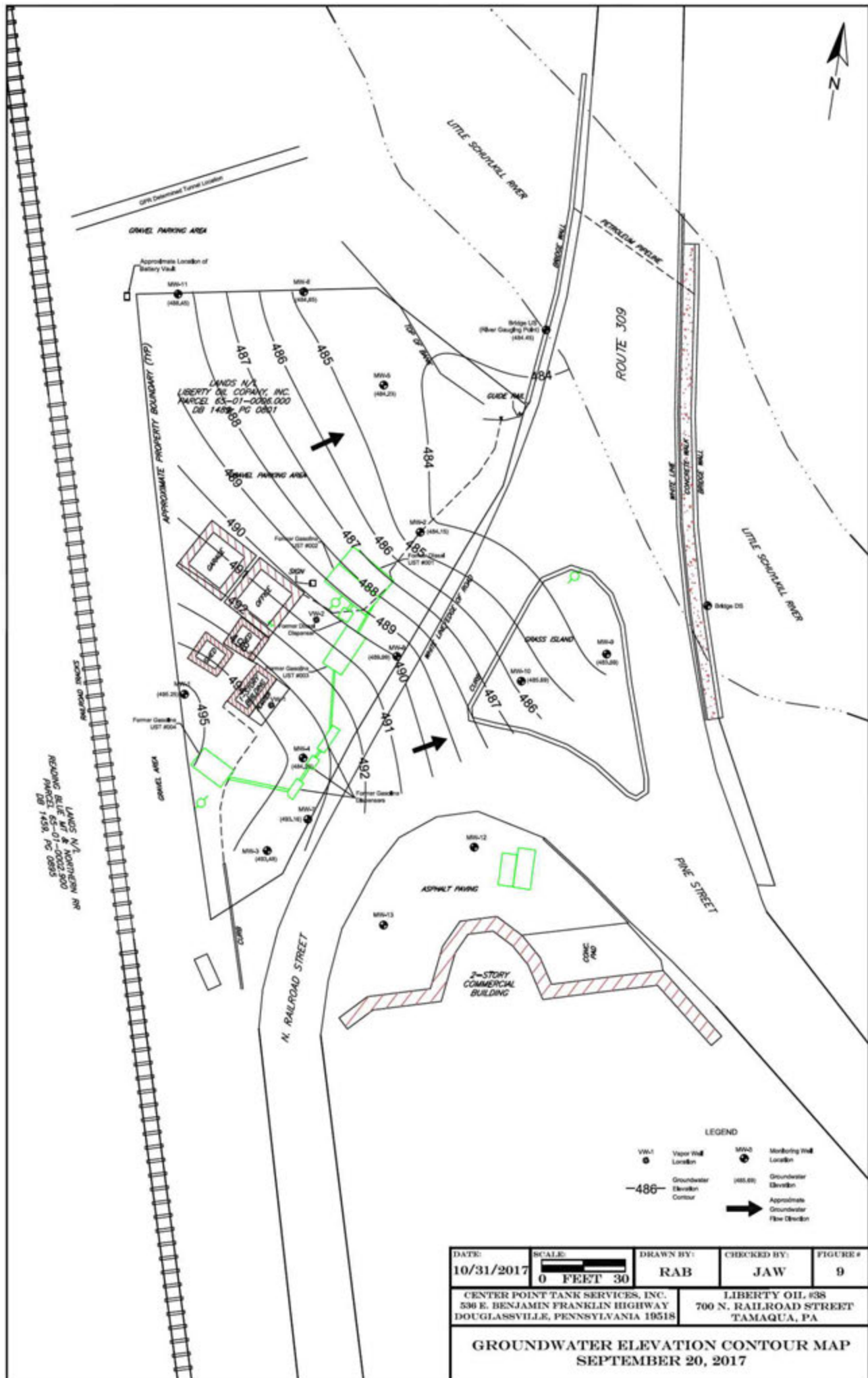
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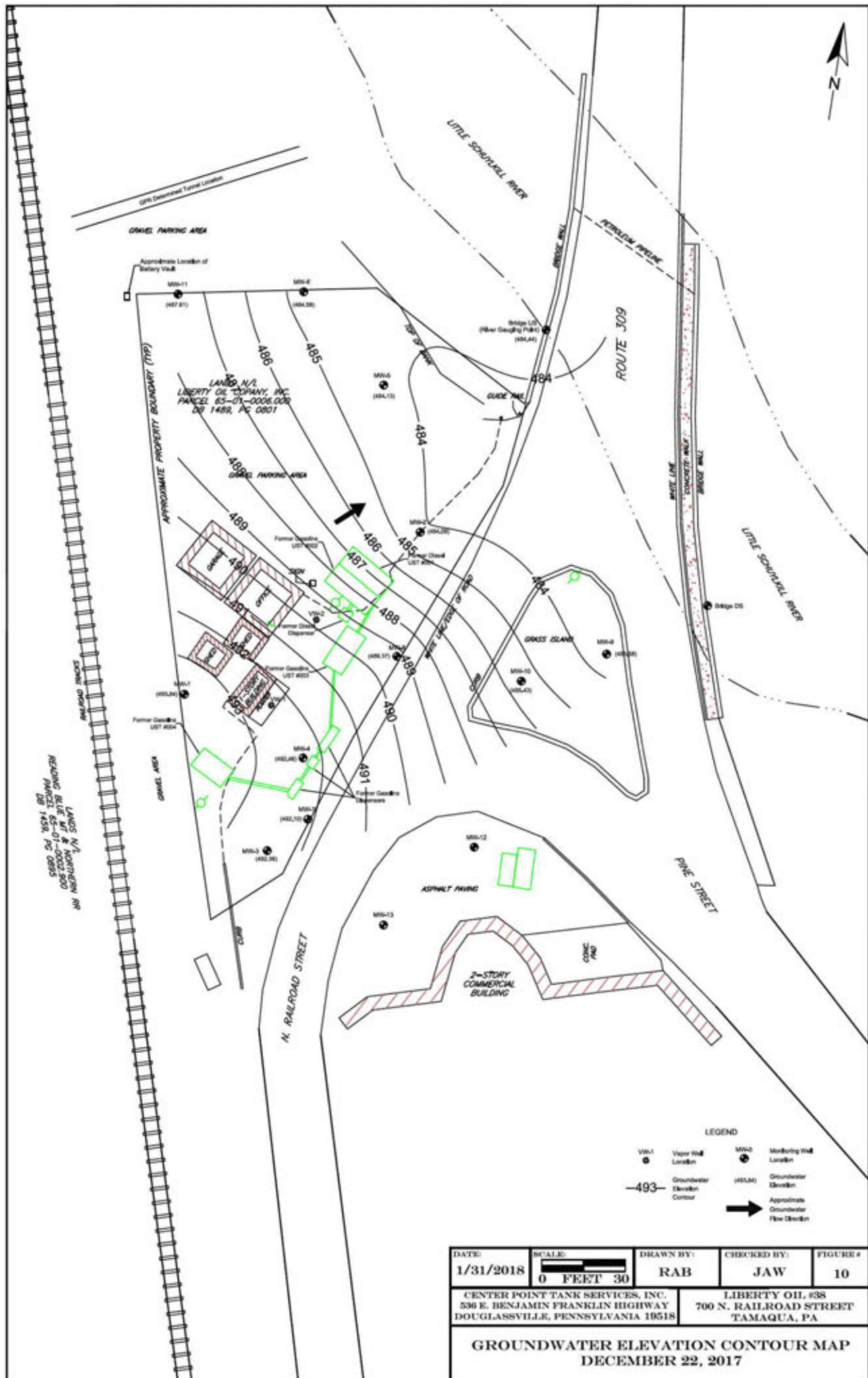
CENTER POINT TANK SERVICES, INC. 530 E. BENJAMIN FRANKLIN HIGHWAY DOUGLASSVILLE, PENNSYLVANIA 19518	LIBERTY OIL #38 700 N. RAILROAD STREET TAMAQUA, PA
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**GROUNDWATER ELEVATION CONTOUR MAP
SEPTEMBER 22, 2016**



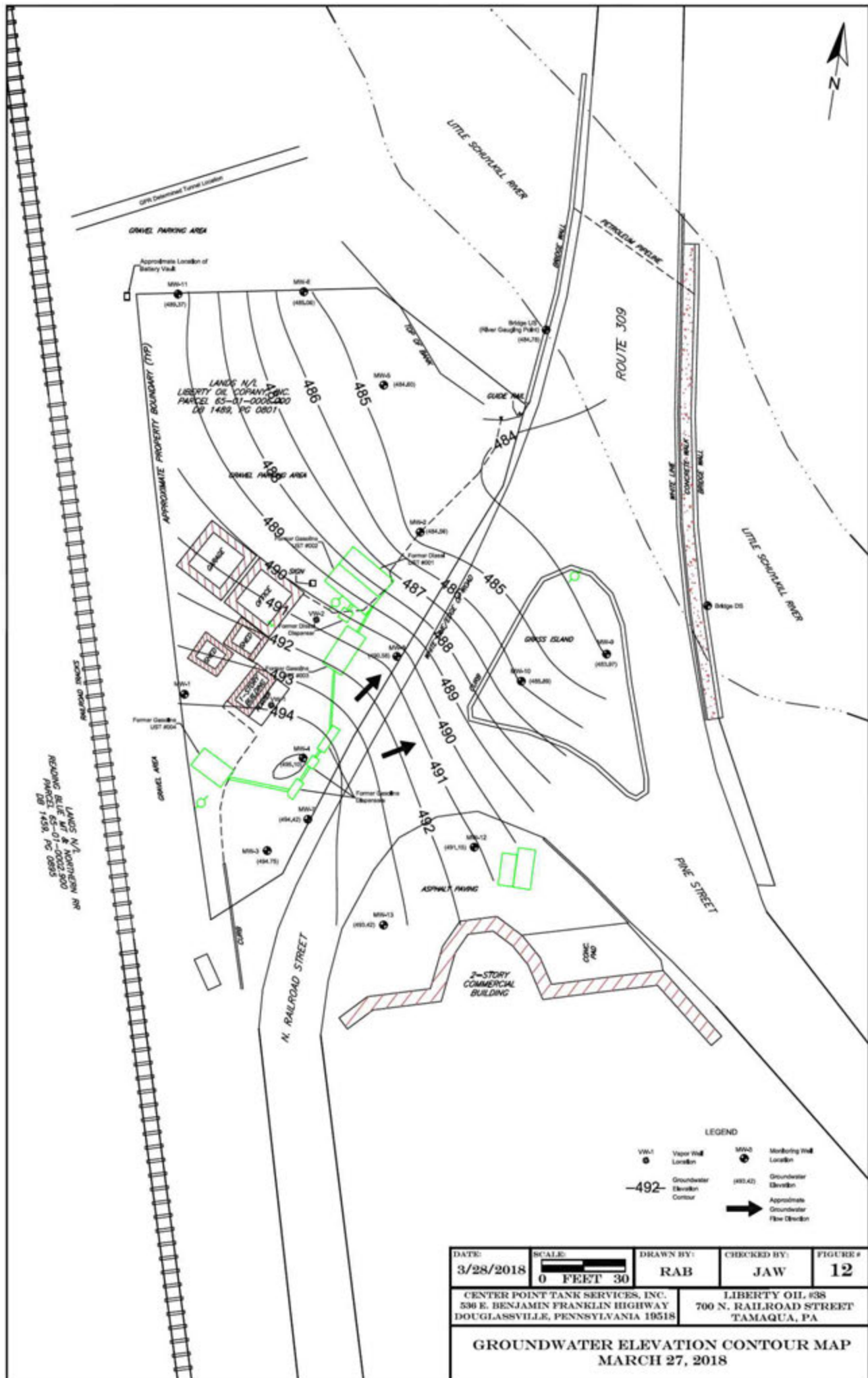


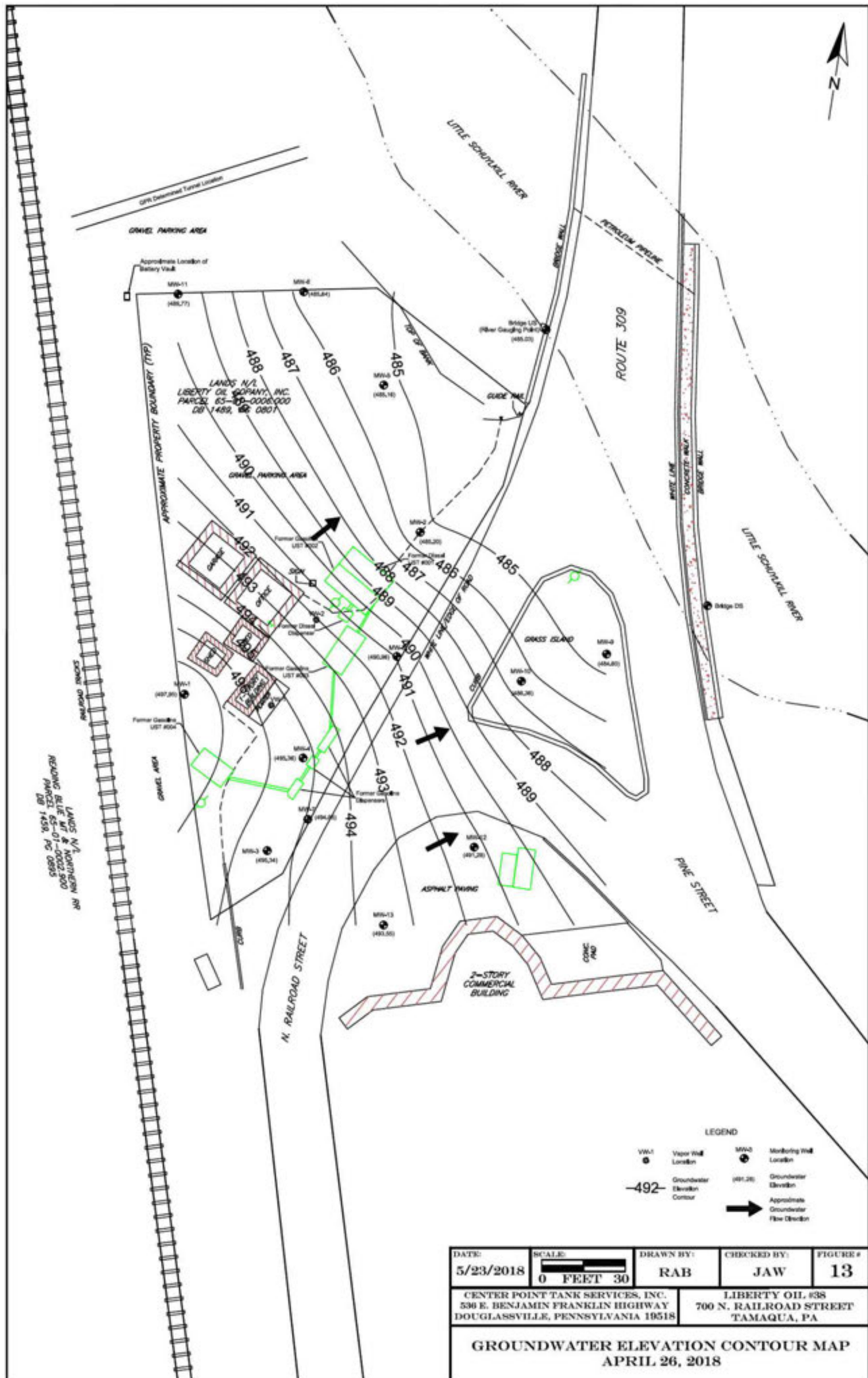


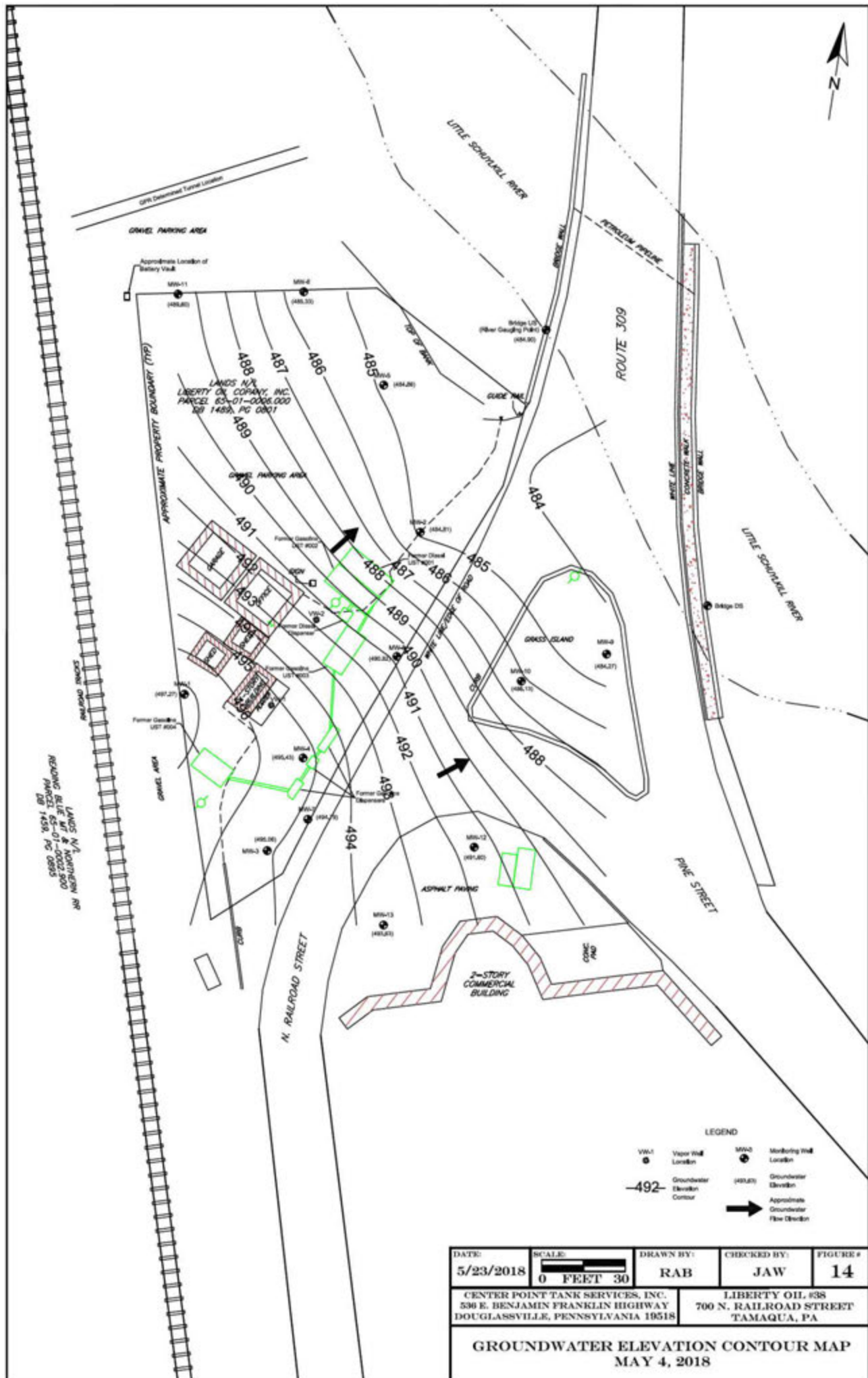


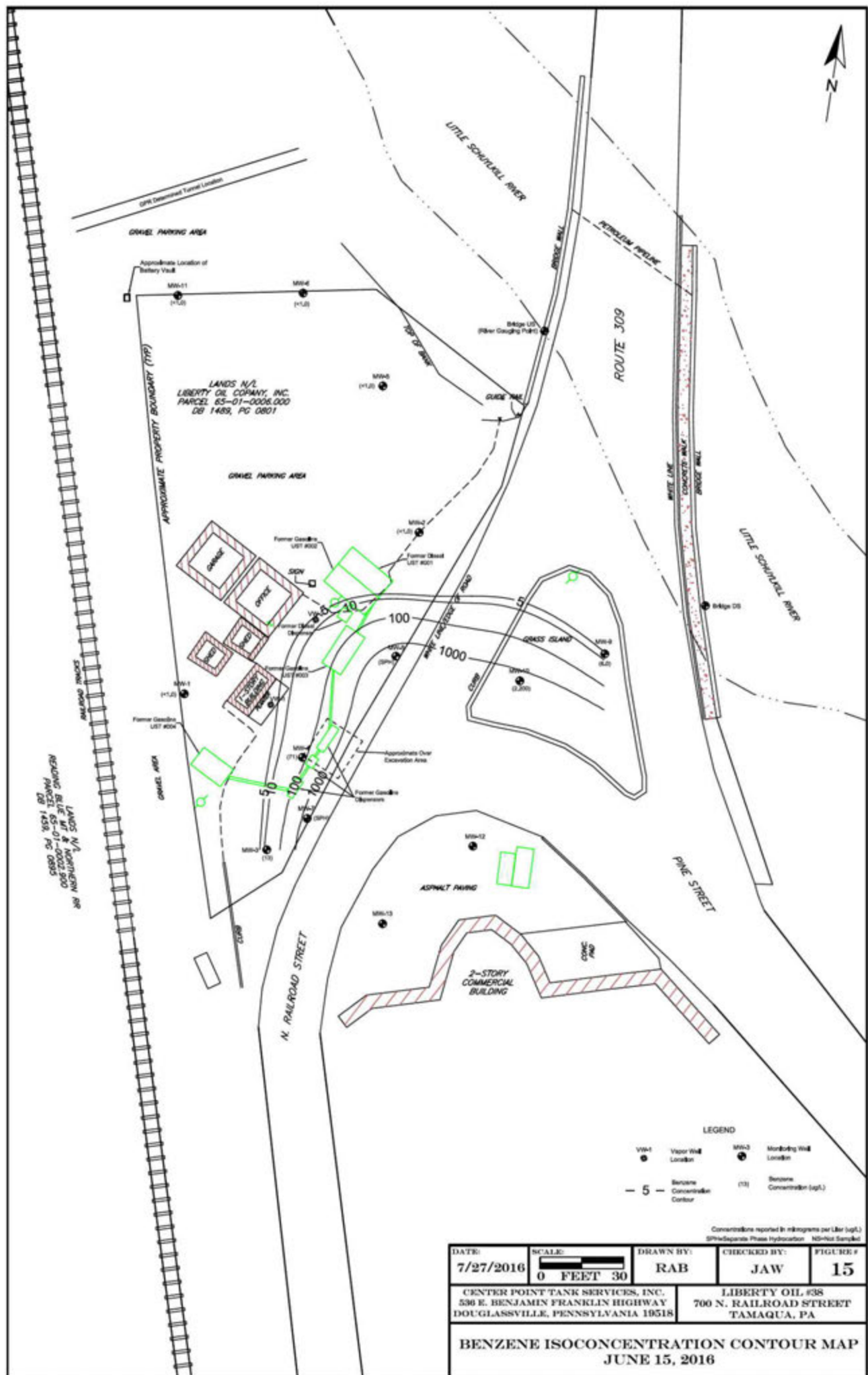
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CENTER POINT TANK SERVICES, INC. 530 E. BENJAMIN FRANKLIN HIGHWAY DOUGLASSVILLE, PENNSYLVANIA 19518		LIBERTY OIL, #38 700 N. RAILROAD STREET TAMAQUA, PA		
GROUNDWATER ELEVATION CONTOUR MAP DECEMBER 22, 2017				

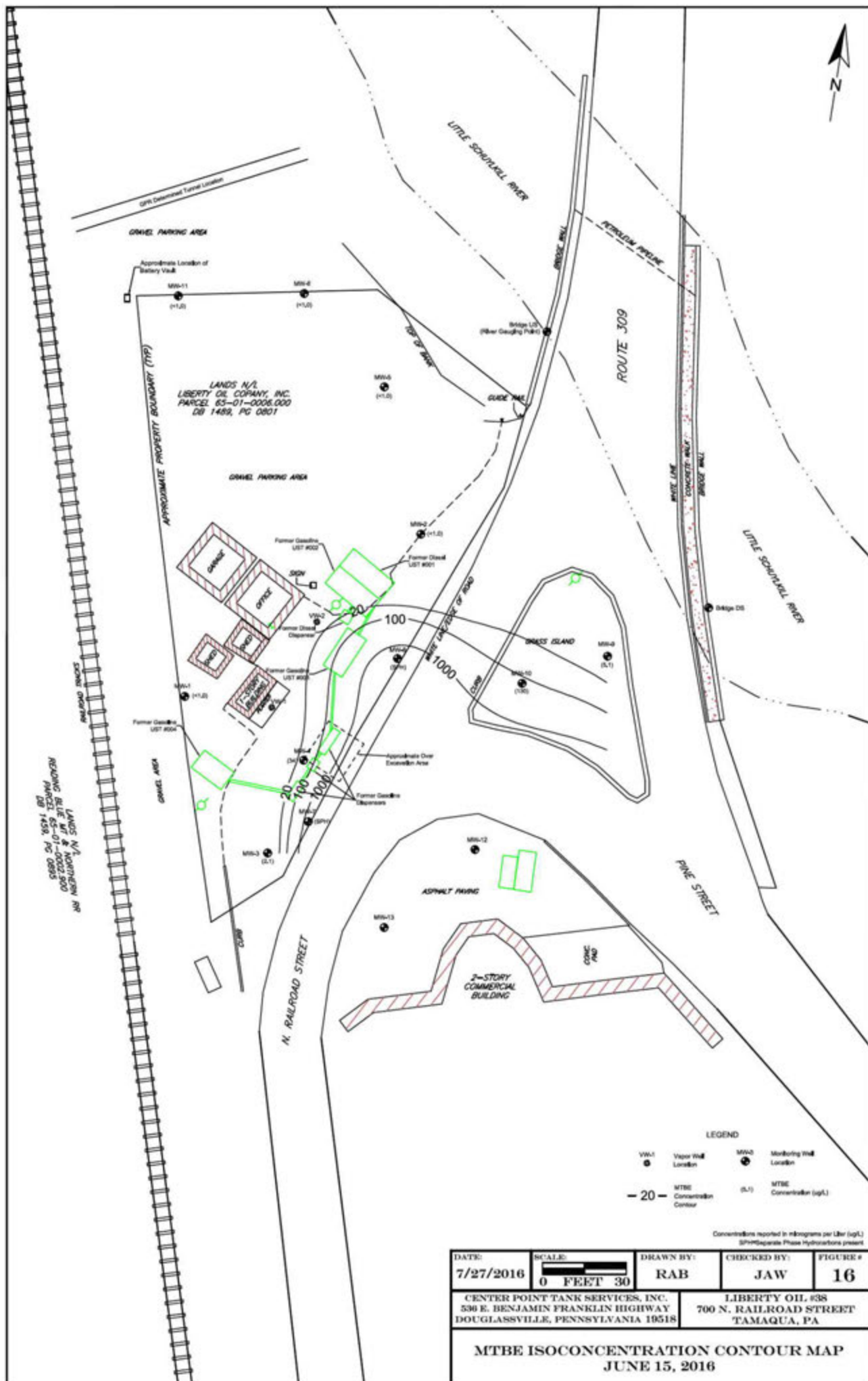


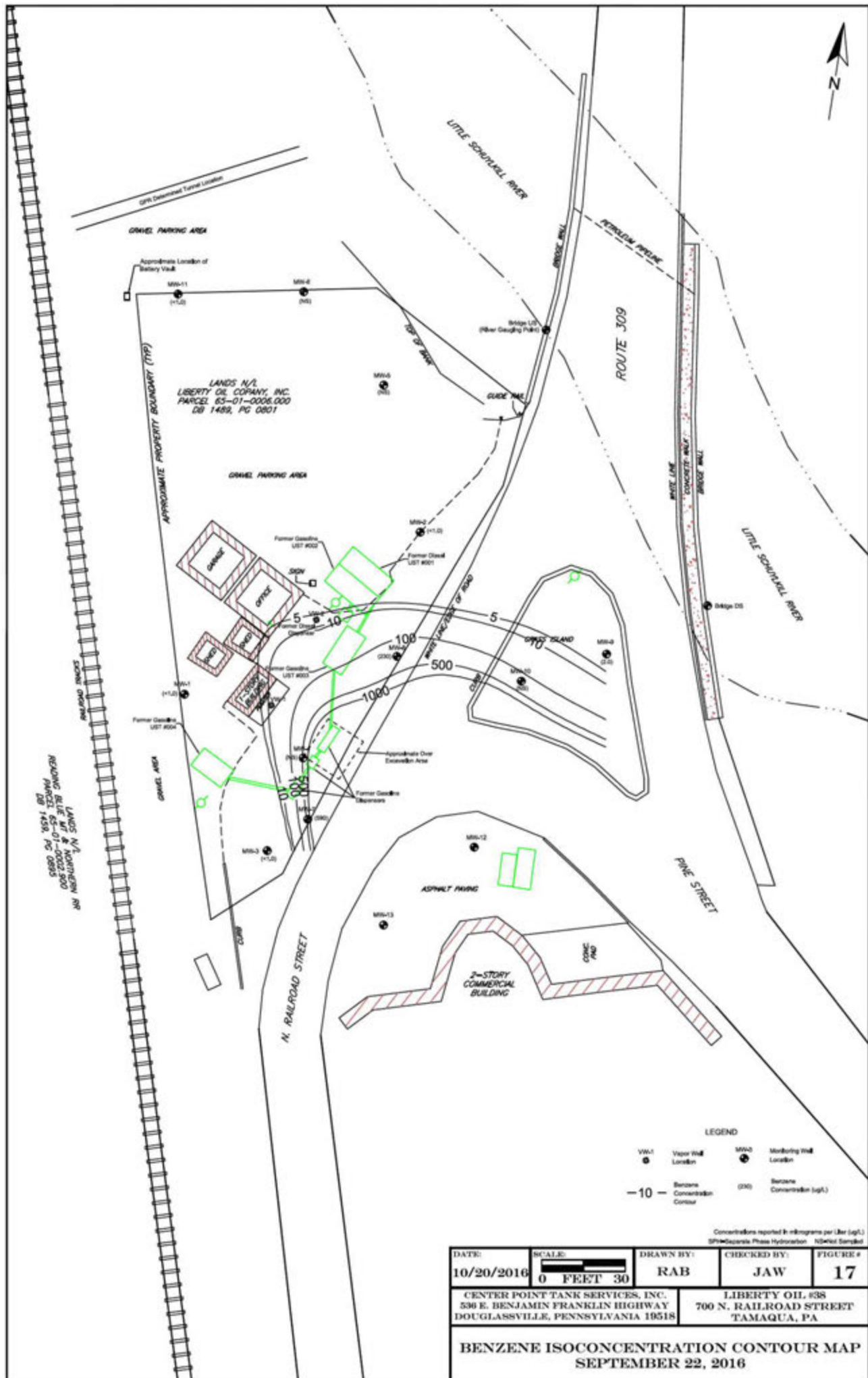


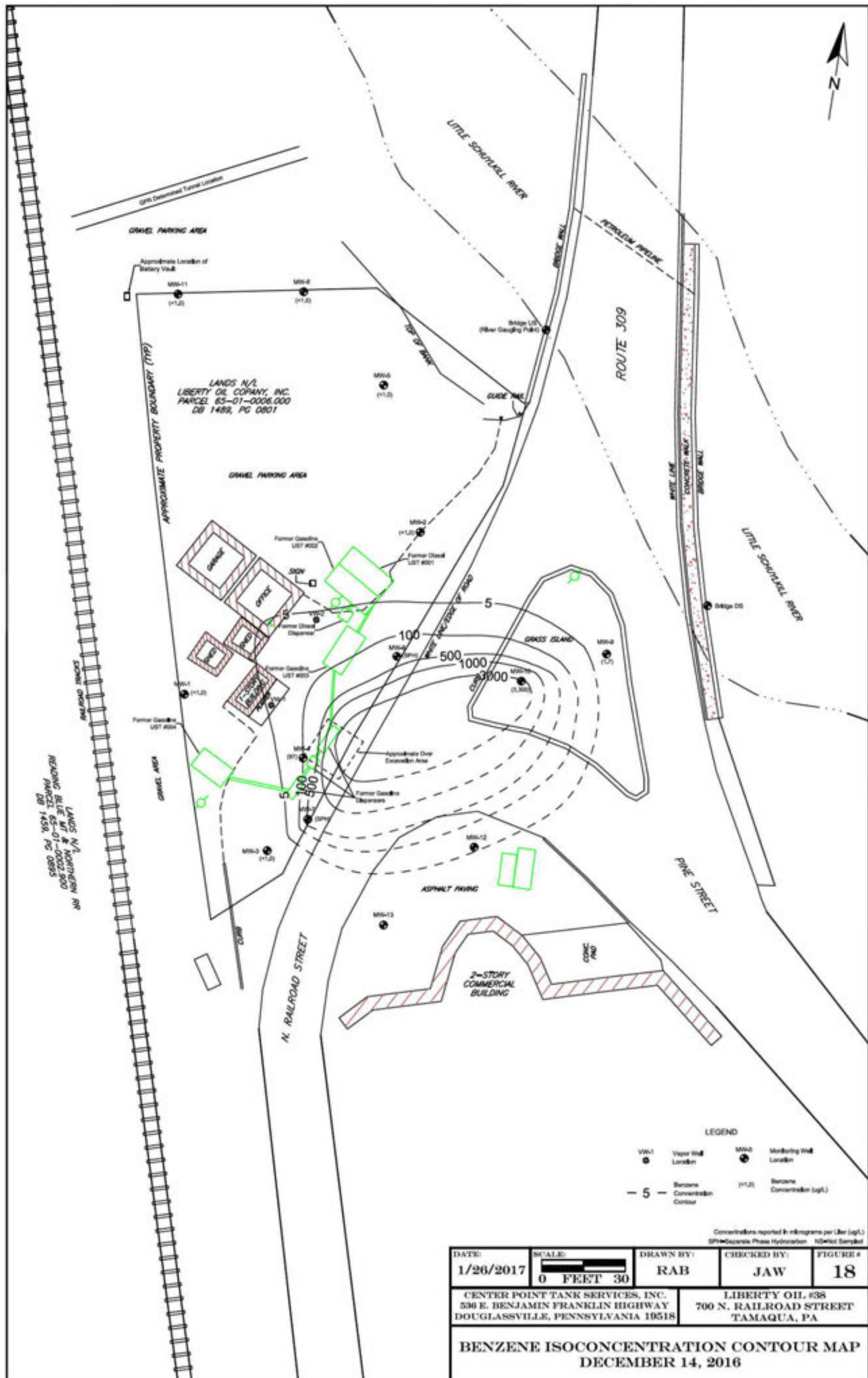


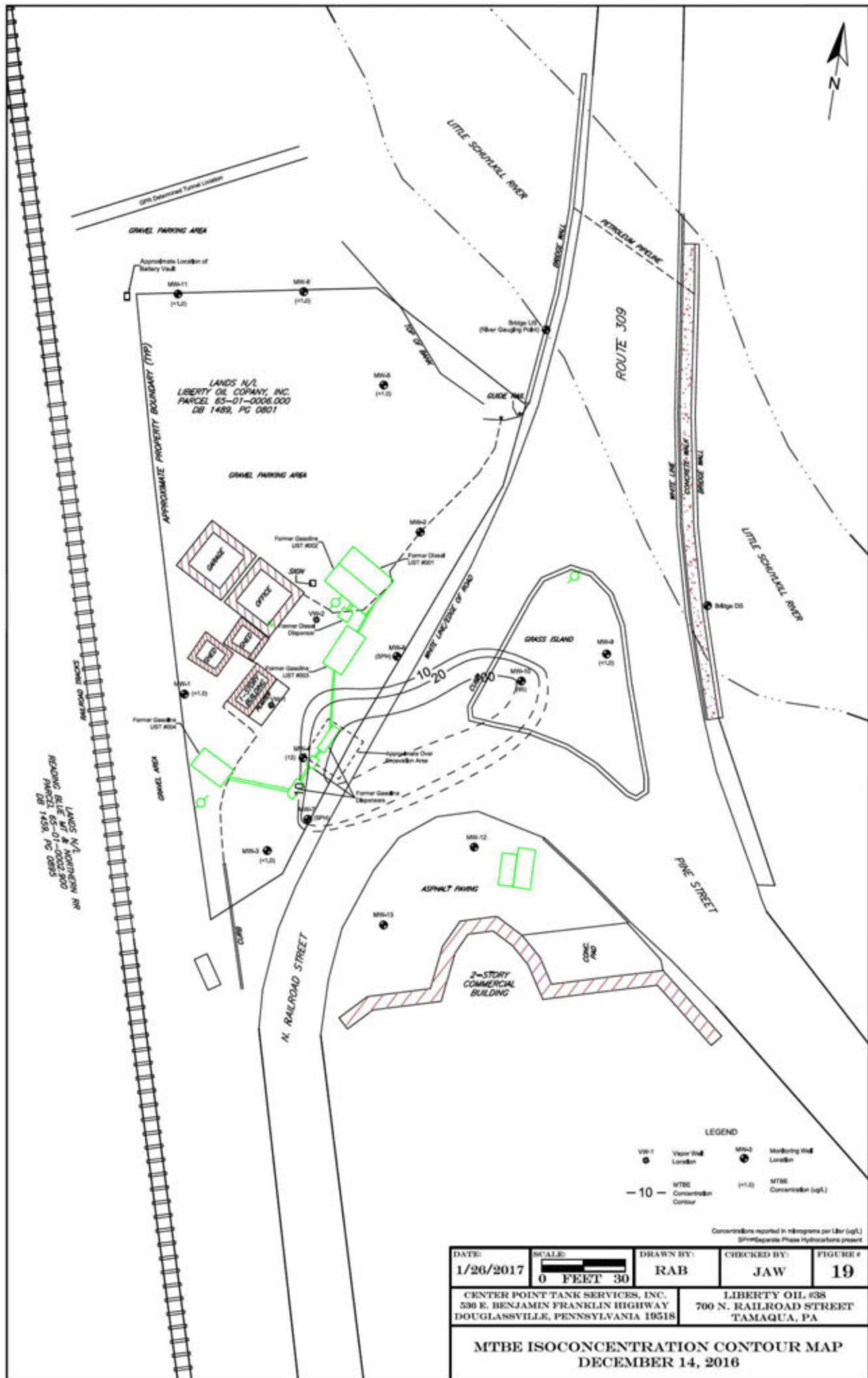


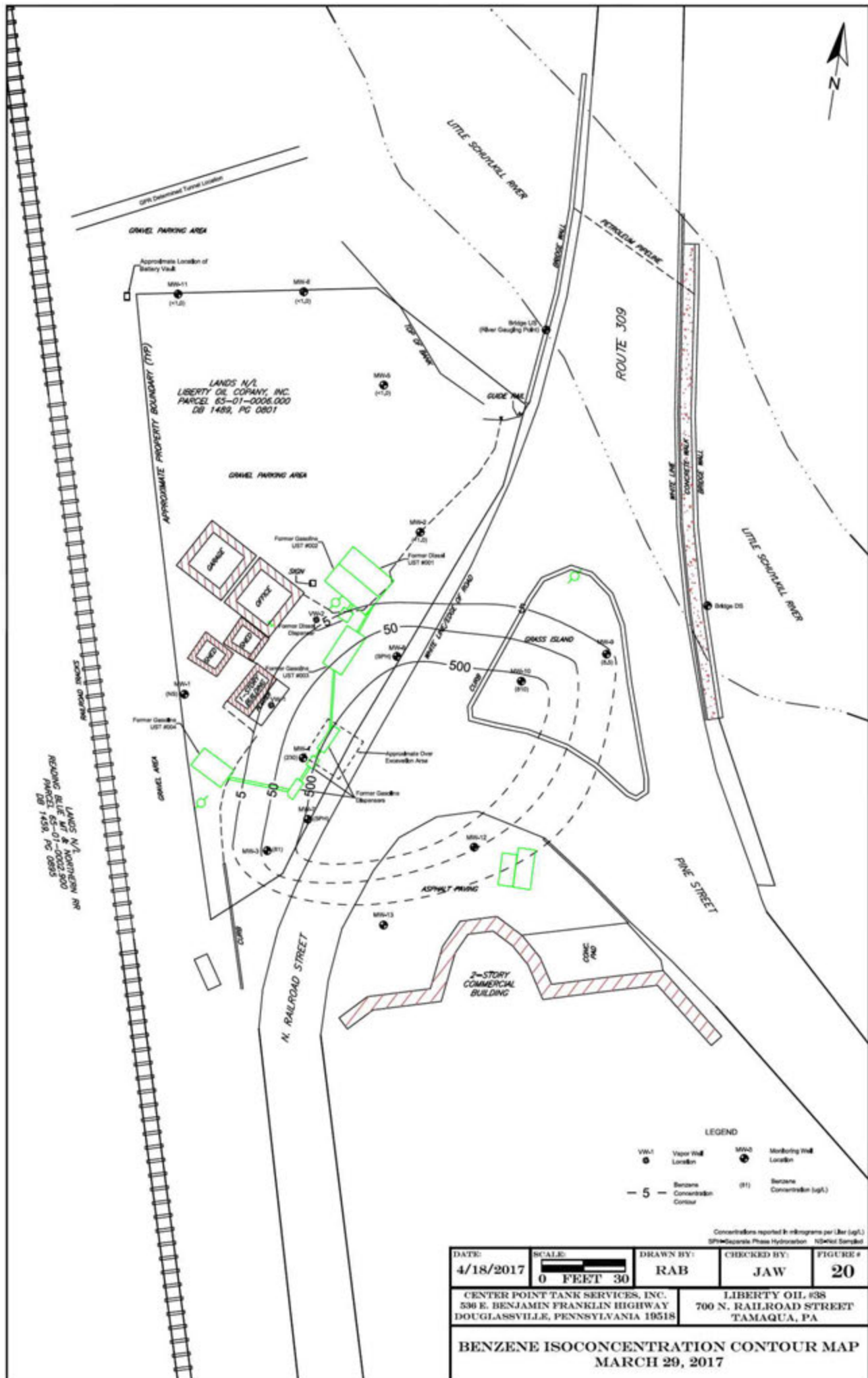


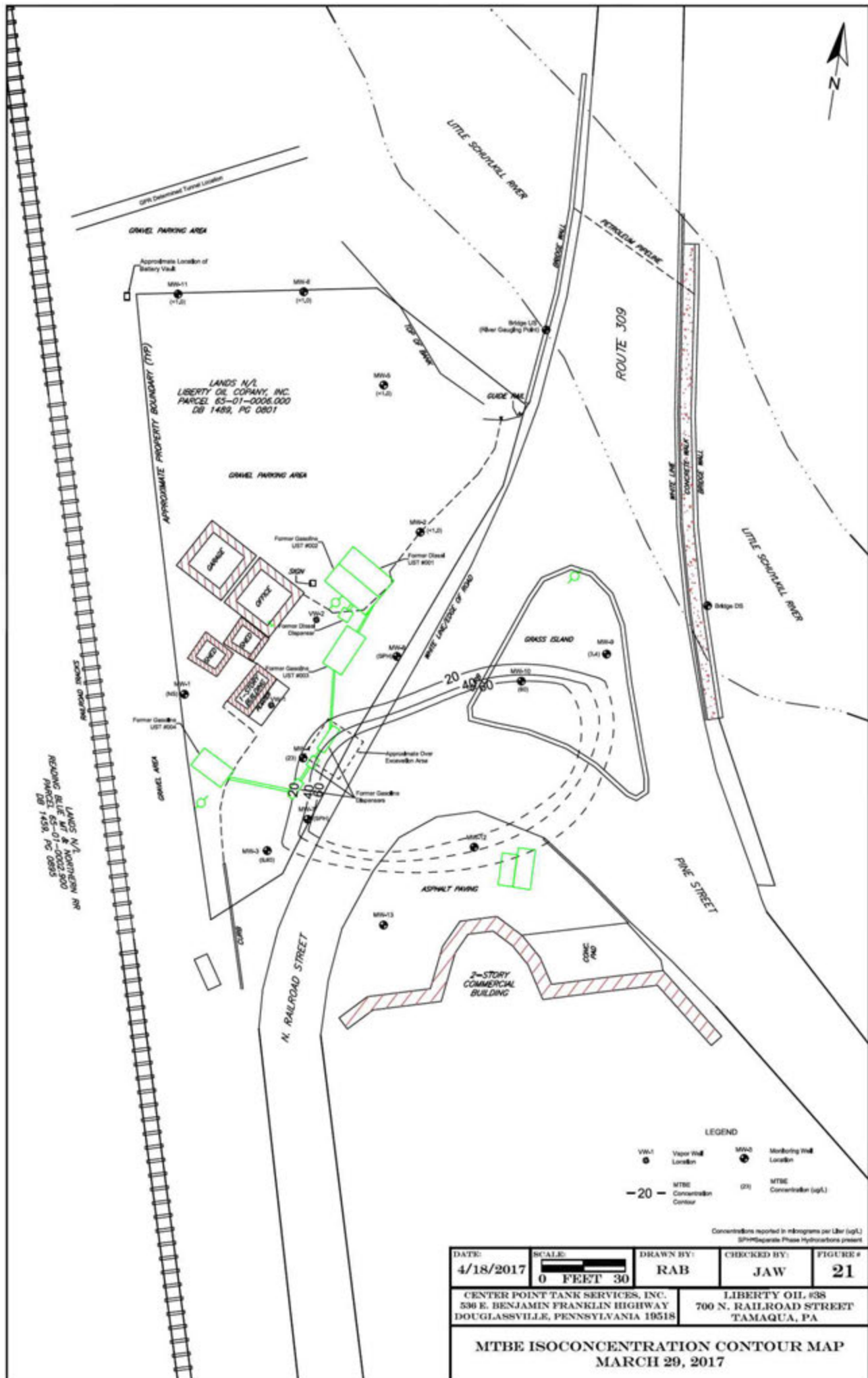


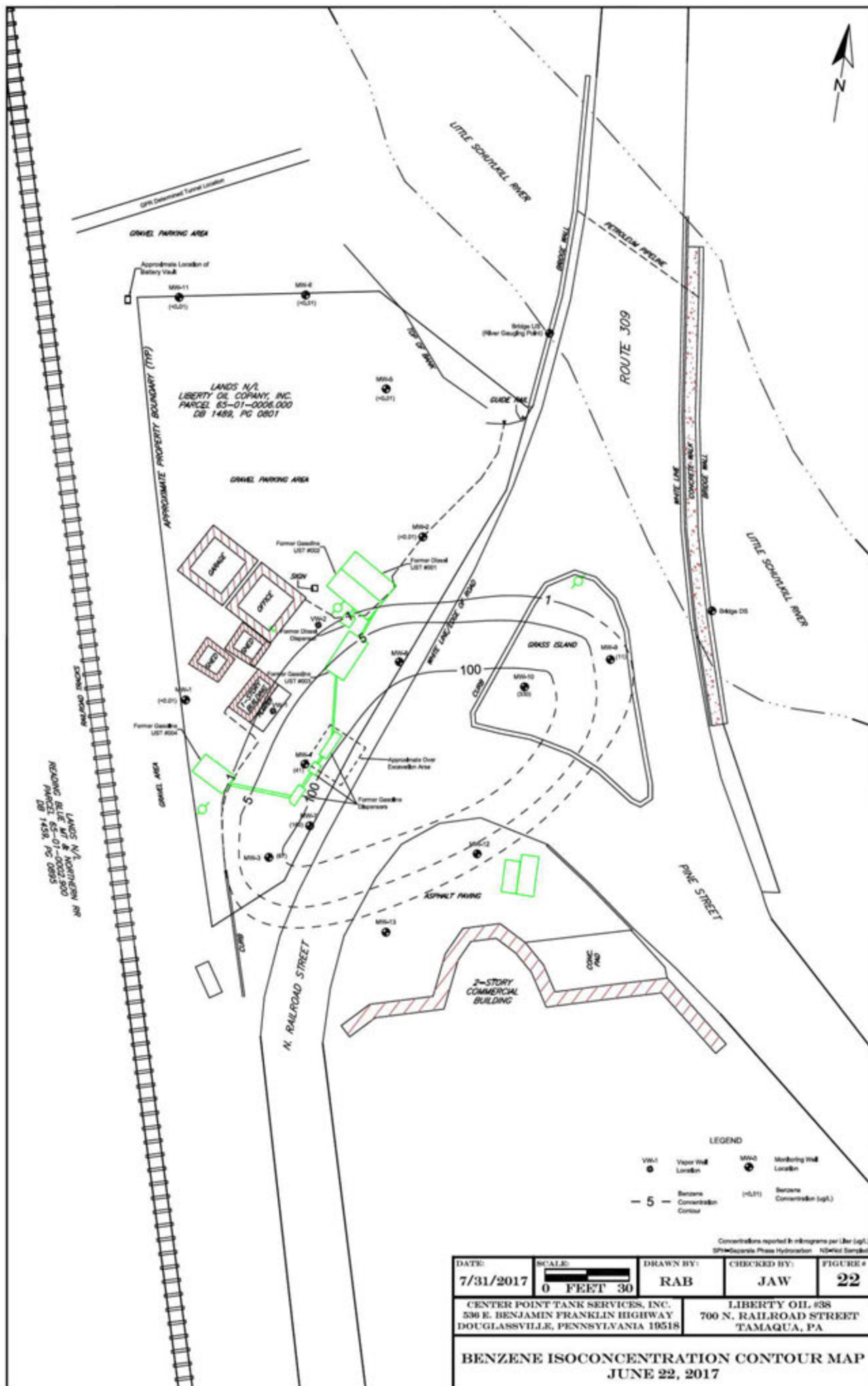


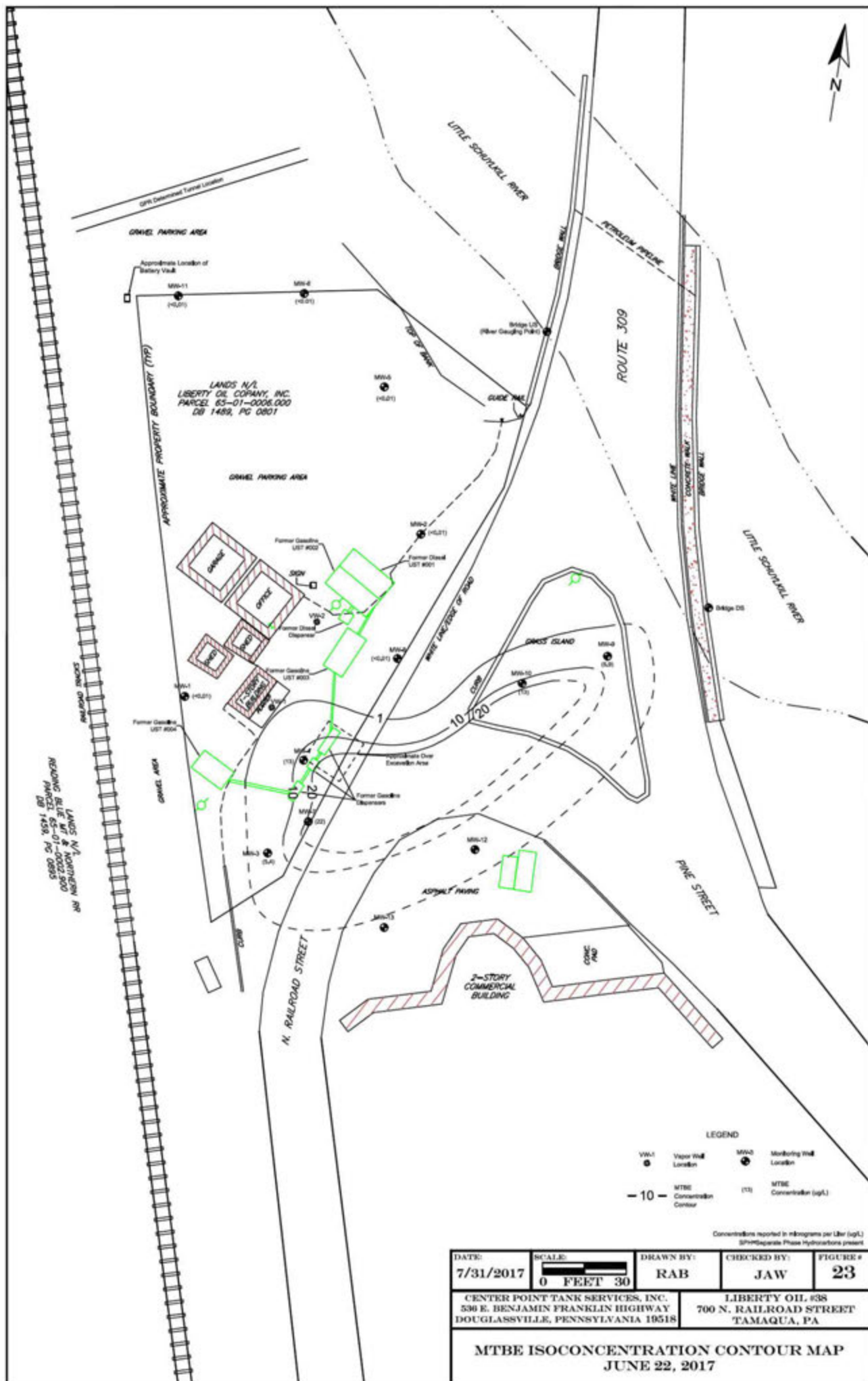


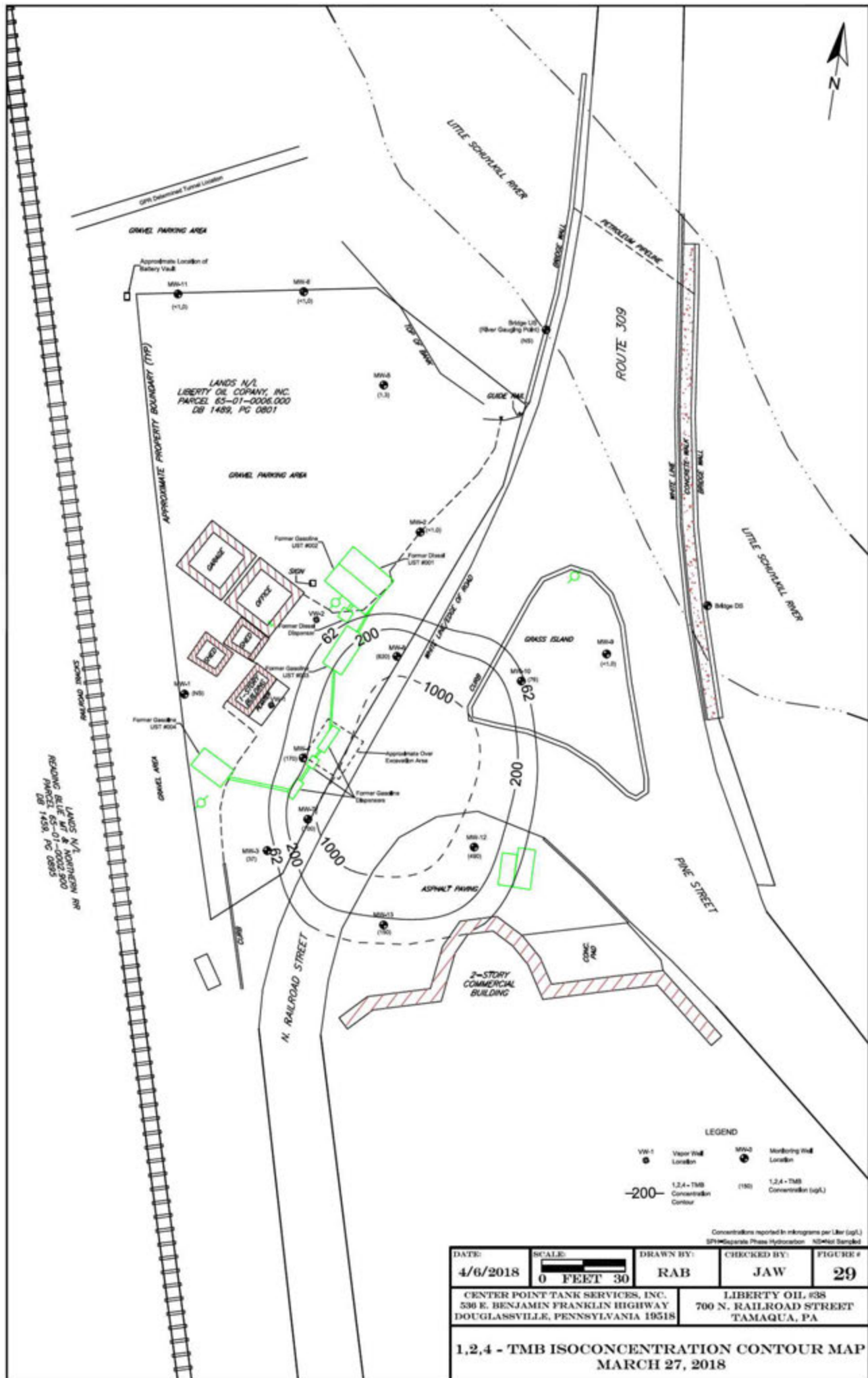


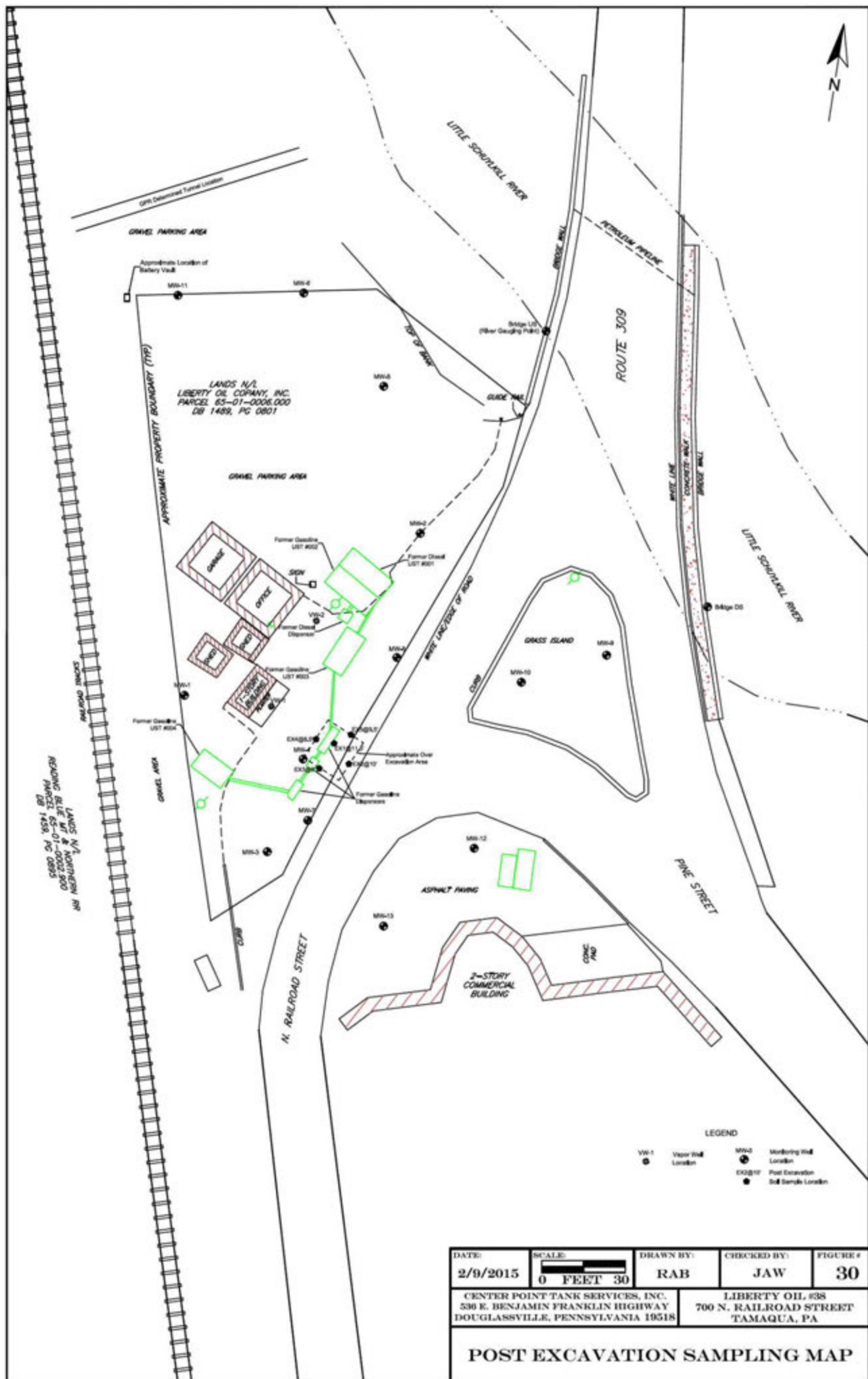












TABLES

TABLE 1
SOIL SAMPLING DATA SUMMARY

LIBERTY OIL 408
700 N. RAILROAD STREET
TAMARCA, PA

Boring ID	Date	Standard for Comparison	Benzene (ug/kg)	Ethylbenzene (ug/kg)	Isopropylbenzene (ug/kg)	MTHB (ug/kg)	Naphthalene (ug/kg)	Toluene (ug/kg)	1,2,4-TMB (ug/kg)	1,3,5-TMB (ug/kg)	Xylenes (ug/kg)	EDB (ug/kg)	EDC (ug/kg)	Lead (ug/kg)	% Solids
Non-Residential Direct Contact Values for Organic Regulated Substances in Soil															
		DC	330,000	1,000,000	10,000,000	9,900,000	190,000,000	10,000,000	640,000	10,000,000	9,100,000	43,000	90,000	190,000,000	NA
Selected Non-Residential MSDs for Organic Regulated Substances in Soil															
		SAT	500	70,000	300,000	2,000	10,000	100,000	6,200	120,000	1,000,000	5	500	40,000	NA
Non-Residential MSDs for Organic Regulated Substances in Soil															
		SDS	500	70,000	2,000,000	2,000	20,000	100,000	30,000	210,000	1,000,000	5	500	400,000	NA
#1 Fill End (11)	8/13/2008	SAT	<200	<200	<200	<200	<250	<200	<200	<200	NA	NA	NA	NA	92.3
#2 Middle (11)	8/12/2008	SAT	<200	<200	<200	<200	<250	<200	<200	<200	NA	NA	NA	NA	92.2
#3 End (11)	8/12/2008	SAT	<200	<200	<200	<200	<250	<200	<200	<200	NA	NA	NA	NA	92.8
#4 Fill End (11)	8/13/2008	SAT	4.6	16	38	<4.0	87	25	3,200	300	240	<4.0	<4.0	13,000	91.0
#5 Middle (11)	8/13/2008	SAT	<4.0	<4.0	<4.0	<4.0	<5.0	<4.0	<4.0	<4.0	<12	<4.0	<4.0	13,000	96.4
#6 End (11)	8/13/2008	SAT	<4.0	<4.0	<4.0	<4.0	<5.0	<4.0	<4.0	5.5	<13	<4.0	<4.0	19,000	85.3
#7 Diesel Island (7)	8/15/2008	SDS	<250	<250	<250	<250	<320	<250	<250	<250	NA	NA	NA	NA	78.2
#8 Section End (12)	8/18/2008	DC	<4.0	<200	<200	<4.0	<250	<4.0	<200	<200	<400	<4.0	<4.0	4,700	80.5
#9 Fill Middle (12)	8/18/2008	DC	42	20	5.6	<4.0	8.9	16	33	17	39	<4.0	<4.0	27,000	87.3
#10 Vent End (12)	8/18/2008	DC	9.3	6.7	<4.0	<4.0	<5.0	8.3	6.8	4.5	16	<4.0	<4.0	50,000	96.3
#11 Vent End (12)	8/19/2008	DC	130	210	38	<4.0	26	88	230	160	400	<4.0	<4.0	45,000	85.1
#12 Fill Middle (12)	8/19/2008	DC	260	350	60	<4.0	40	3,100	440	190	3,500	<4.0	<4.0	31,000	85.0
#13 Section End (12)	8/19/2008	DC	61	39	36	<4.0	8.9	13	230	140	250	<4.0	<4.0	28,000	83.7
#14 Gas Pump (7)	8/19/2008	SDS	2,300	40,000	15,000	<2,000	80,000	39,000	890,000	490,000	840,000	<2,000	<2,000	110,000	81.7
#15 Gas Pump (7)	8/19/2008	SDS	2,300	21,000	9,300	<50	110,000	8,200	430,000	170,000	190,000	<400	<400	160,000	72.4
#16 Gas Pump (7)	8/20/2008	SDS	2,300	21,000	9,300	<50	110,000	6,400	430,000	170,000	190,000	<400	<400	160,000	72.4
#17 Paving Gas (2.5)	8/20/2008	SDS	23	<4.0	<4.0	<4.0	46	44	27,000	24,000	1,300	<4.0	<4.0	53,000	92.0
#18 Gas Island (7)	8/20/2008	SDS	32,000	110,000	36,000	<25,000	110,000	400,000	890,000	290,000	1,090,000	<25,000	<25,000	88,000	81.6
#19 Gas Pump (7)	8/20/2008	SDS	28,000	160,000	17,000	<2,400	84,000	70,000	890,000	220,000	1,090,000	<2,400	<2,400	88,000	77.9
GP-1 (13-4)	01/13/09	SDS	7,700	84,000	11,000	<200	40,000	110,000	380,000	130,000	90,000	<200	<200	79,000	83.5
GP-3 (13-14.5)	01/13/09	DC	110	3,500	190	<4.0	400	66	22,000	7,200	13,000	<4.0	<4.0	8,300	90.4
GP-3 (13-14)	01/13/09	DC	250	150	28	47	70	56	320	160	710	<4.0	<4.0	13,000	91.2
GP-4 (13-15.5)	01/13/09	DC	100	52	<4.0	59	34	70	77	23	130	<4.0	<4.0	6,600	90.7
GP-4 (8-9)	01/13/09	SAT	940	180	9.4	200	110	2,700	1,130	330	1,130	<4.0	<4.0	11,000	88.2
GP-11 (12-12.5)	01/13/09	DC	28,000	66,000	14,000	800	26,000	190,000	260,000	95,000	470,000	<200	<200	10,000	88.3
GP-13 (13-12)	01/13/09	DC	<200	71	11	72	41	<200	380	160	730	<4.0	<4.0	6,300	89.4
GP-14 (8-10)	01/13/09	DC	<4.0	<4.0	<4.0	11	<5.0	8.4	14	4.4	17	<1.0	<1.0	8,900	90.1
GP-15 (13-12)	01/13/09	DC	<4.0	<4.0	<4.0	<4.0	<5.0	<4.0	<4.0	<4.0	<12	<4.0	<4.0	11,000	85.9
GP-16 (2-3)	01/13/09	SDS	42,000	100,000	21,000	320	40,000	300,000	300,000	110,000	470,000	<200	<200	20,000	90.3
GP-17 (12-13.5)	01/27/09	DC	<4.0	<4.0	<4.0	<4.0	<5.0	<4.0	<4.0	<4.0	<12	<4.0	<4.0	11,000	89.6
GP-18 (1-4)	01/27/09	SDS	<5.4	<5.4	<5.4	<5.4	<6.8	<5.4	<5.4	<5.4	<16	<6.4	<5.4	98,000	73.5
GP-19 (12-13)	01/27/09	DC	<200	3,000	4,200	<200	1,900	<200	38,000	25,000	11,000	<200	<200	7,700	89.4
GP-21 (1-4)	01/27/09	SDS	<4.0	<4.0	<4.0	<4.0	<5.0	<4.0	<200	<200	<12	<4.0	<4.0	13,000	89.9
GP-23 (8-9)	01/27/09	SAT	<4.0	<4.0	<4.0	<4.0	<5.0	<4.0	<4.0	<4.0	<12	<4.0	<4.0	79,000	80.2
GP-24 (14-15.5)	01/27/09	DC	<4.0	6.4	<4.0	4.3	<5.0	<4.0	<4.0	<4.0	<12	<4.0	<4.0	6,600	86.9
GP-27 (13-14)	01/27/09	DC	4.1	7.8	<4.0	<4.0	6.0	<4.0	5.0	<4.0	<12	<4.0	<4.0	9,000	90.6
GP-28 (14-15.5)	01/27/09	DC	88	270	12	2,400	20	54	190	60	610	<4.0	<4.0	7,900	88.1
GP-29 (9-10.5)	01/27/09	DC	140	48	<4.0	510	30	<4.0	20	12	91	<4.0	<4.0	7,500	90.9
GP-31 (1-4)	01/27/09	SDS	180	94	91	89	<5.0	12	1,600	330	2,300	<4.0	<4.0	7,400	81.0
GP-32 (1-4)	01/27/09	SDS	150	43	28	610	<110	14	380	<250	790	<5.0	<5.0	6,300	79.8
GP-33 (12-13.5)	01/27/09	DC	35	78	21	<4.0	81	210	330	160	560	<4.0	<4.0	8,300	91.0
GP-35 (7-8)	01/27/09	SAT	<4.0	<4.0	<4.0	21	<5.0	<4.0	<4.0	<4.0	<12	<4.0	<4.0	25,000	85.1

TABLE 1
SOIL SAMPLING DATA SUMMARY

LIBERTY OIL 408
700 N. RAILROAD STREET
TAMPAQUA, PA

Boring ID	Date	Standard for Comparison	Benzene (ug/kg)	Ethylbenzene (ug/kg)	Isopropylbenzene (ug/kg)	MXBE (ug/kg)	Naphthalene (ug/kg)	Toluene (ug/kg)	1,2,4-TMB (ug/kg)	1,3,5-TMB (ug/kg)	Xylenes (ug/kg)	EDB (ug/kg)	EDC (ug/kg)	Lead (ug/kg)	% Solids
Non-Residential Direct Contact Values for Organic Regulated Substances in Soil		DC	330,000	1,000,000	10,000,000	9,900,000	100,000,000	10,000,000	640,000	10,000,000	8,100,000	43,000	90,000	100,000,000	NA
Saturated Non-Residential MDCs for Organic Regulated Substances in Soil		SAT	500	70,000	300,000	2,000	10,000	100,000	4,200	120,000	1,000,000	5	500	40,000	NA
Non-Residential MDCs for Organic Regulated Substances in Soil		SMS	500	70,000	2,000,000	2,000	20,000	100,000	30,000	210,000	1,000,000	5	500	400,000	NA
LO-1 (3-4)	1/14/2010	SAT	61.0	84.3	35.4	7.1	101	107	3,350	1,310	304	-1.3	-1.3	31,000	91.0
LO-1 (7-8)	1/14/2010	SAT	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	9,800	86.0
LO-1 (10.5-11.2)	1/14/2010	DC	4.1	120	7.0	-1.4	114	22.5	906	38.6	2,390	-1.4	-1.4	8,200	86.9
LO-2 (8.5-7)	1/14/2010	SAT	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	7,800	90.3
LO-3 (11-12)	1/14/2010	DC	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	4,900	88.5
LO-4 (5-6)	1/14/2010	SMS	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	159,000	80.0
LO-5 (7-8)	1/14/2010	SMS	5.7	-2.8	-2.8	-2.8	-2.8	3.5	-2.8	-2.8	-8.5	-2.8	-2.8	25,300	91.9
LO-6 (5-6)	1/14/2010	SMS	-2.3	-2.3	-2.3	-2.3	-2.3	3.2	-2.3	-2.3	-6.9	-2.3	-2.3	11,200	93.3
LO-7 (14-15)	1/14/2010	SAT	42.0	-2.2	-2.2	-2.2	-2.2	16.0	3.3	2.2	9.4	-2.2	-2.2	81,900	85.5
LO-8 (8.5-7.5)	1/14/2010	SMS	4.5	-2.0	-2.0	-2.0	-2.0	30.8	2.5	-2.0	12.5	-2.0	-2.0	110,000	93.1
LO-9 (11-12)	1/14/2010	DC	-38.7	185	319	-38.7	-77.3	-38.7	6,560	4,600	-116	36.4	-38.7	11,600	90.0
LO-10 (5-6)	1/14/2010	SMS	-3.1	-3.1	-3.1	-3.1	-3.1	5.6	-3.1	-3.1	-9.3	-3.1	-3.1	9,300	84.8
LO-11 (5-6)	1/14/2010	SMS	23,100	40,300	11,900	-2,240	17,400	183,000	108,000	52,800	534,000	-2,240	-2,240	62,200	88.4
LO-13 (11-12)	1/14/2010	DC	1.7	-1.5	-1.5	36.8	-1.5	3.7	-1.5	-1.5	4.5	-1.5	-1.5	7,700	93.1
LO-14 (9-10)	1/14/2010	DC	85,900	146,000	29,900	-829	44,800	603,000	434,000	150,000	884,000	-829	-829	33,300	84.6
LO-14 (12-13)	1/14/2010	DC	29.4	108	25.8	78.9	71.1	146	359	135	565	-1.8	-1.8	7,100	92.8
LO-15 (5-6)	1/14/2010	SMS	34,100	108,000	21,700	-1,200	43,600	296,000	618,000	176,000	686,000	-1,200	-1,200	62,900	80.3
LO-16 (5-6)	1/14/2010	SMS	6,879	49,600	4,960	-378	13,000	141,000	123,000	38,000	271,000	-378	-378	13,600	86.7
LO-16 (11-12)	1/14/2010	DC	19,900	38,600	3,700	-422	13,600	136,000	130,000	39,000	294,000	-422	-422	8,400	93.8
LO-17 (5-6)	1/14/2010	SAT	6,800	70,000	22,500	-401	33,000	39,500	399,000	136,000	603,000	-401	-401	54,900	92.1
LO-17 (5-6)	1/14/2010	SAT	42.7	34.4	12.5	149	6.9	3.3	1,060	62.4	102	-0.78	-0.78	18,600	87.1
LO-18 (6-5)	1/14/2010	SAT	3,300	9,900	3,600	-394	2,880	2,450	89,800	25,100	43,600	-394	-394	16,100	85.7
LO-19 (5-6)	1/14/2010	SMS	8,900	7,600	724	242	7.3	107	701	3,370	17,600	-3.7	-3.7	144,000	77.4
EDCg11.3	5/25/2011	DC	3.3	-2.2	-2.2	3.0	-2.2	4.3	-2.2	-2.2	-4.7	-2.2	-2.2	7,100	88.5
EDCg11.9	5/25/2011	DC	8,100	1,300	7.0	4,600	5.8	16,300	192	66.2	2,870	-1.7	-1.7	15,400	76.2
EDCg11.9	5/25/2011	SAT	1,400	14,500	2,190	22.4	4,410	22,100	64,600	17,700	84,100	-1.5	-1.5	9,700	87.3
EDCg11.9	5/25/2011	SAT	114	4,870	185	12.7	3,250	4,080	18,900	6,010	39,500	-2.2	-2.2	9,700	87.8
EDCg11.9	5/25/2011	SAT	1,870	9,970	711	20.6	5,360	27,800	43,600	11,800	55,600	-3.7	-3.7	11,700	85.3
SB-1 (11.3)	3/22/2016	SMS	-0.36	-0.23	-0.22	-0.22	-0.16	0.343	-0.44	-0.17	-0.14	-0.16	-0.14	9,300	93.4
SB-2 (13)	3/22/2016	SAT	0.163	-0.14	-0.13	-0.13	-0.091	0.213	-0.26	-0.099	0.0897	-0.091	-0.091	41,000	92.9
SB-3 (11)	3/22/2016	SAT	-0.16	-0.15	-0.14	-0.14	-0.099	-0.16	-0.28	-0.11	-0.091	-0.099	-0.091	7,400	89.9
SB-4 (11)	3/22/2016	SAT	-0.15	-0.14	-0.13	-0.13	8.553	0.183	-0.26	-0.10	-0.084	-0.092	-0.084	9,500	90.4
SB-5 (10)	3/22/2016	SAT	-0.14	-0.13	-0.12	-0.12	-0.085	-0.13	-0.24	-0.092	-0.078	-0.085	-0.078	12,200	86.5
SB-6 (7)	3/22/2016	SAT	-0.15	-0.13	-0.13	-0.13	-0.089	-0.14	-0.25	-0.096	-0.081	-0.089	-0.081	8,400	87.4
SB-7 (7)	3/22/2016	SAT	1,900	9,900	5,800	-19	9,300	2,400	3,200	1,200	8,300	-28	-36	44,000	81.0
SB-7 (7)	3/22/2016	SAT	-0.15	-0.14	-0.13	0.163	-0.091	0.153	-0.26	-0.098	-0.083	-0.091	-0.083	7,300	88.3
SB-8 (8)	3/22/2016	SAT	2,400	1,700	130	110	700	3,400	4,400	2,100	12,000	-16	-14	26,000	89.3
SB-11 (7)	3/22/2016	SMS	-0.27	-0.24	-0.23	-0.23	-0.16	0.253	-0.45	-0.17	-0.15	-0.16	-0.15	110,000	78.9
SB-11 (11.3)	3/22/2016	SAT	-0.18	-0.16	-0.16	-0.16	-0.11	-0.17	-0.51	-0.12	-0.10	-0.11	-0.10	8,100	86.1
SB-12 (7.3)	1/25/2018	DC	171	3,370	861	-32.7	3,080	93.8	21,500	4,770	3,720	13.8	-227	37,800	87.8
SB-13 (7.3)	1/25/2018	SMS	-30.0	155	41.5	-30.0	67.9	80.5	525	192	348	-4.93	-300	33,500	84.9
SB-13 (8.7)	1/25/2018	DC	1.08	2.94	1.41	-0.564	-25.8	-25.8	131	44.8	2.87	-0.092	-5.64	15,000	88.7
SB-9 (3.5)	1/25/2018	SAT	-0.556	-0.556	-0.556	-0.556	-28.1	-28.1	-0.556	-0.556	-1.11	-0.091	-5.56	7,870	83.6
SB-10 (3.5)	1/25/2018	SAT	-0.558	-0.558	-0.558	-0.558	-25.9	-25.9	-0.558	-0.558	-1.12	-0.091	-5.58	9,620	84.4
SB-11 (7)	1/25/2018	SAT	391	187	28.4	-28.4	342	225	133	116	467	-4.66	-284	42,800	91.3
SB-11 (7)	1/25/2018	SAT	-0.547	-0.547	-0.547	-0.547	-22.6	-22.6	-0.547	-0.547	-1.09	-0.090	-5.47	15,300	85.6
SB-12 (7)	1/26/2018	SMS	146	112	64.0	-61.9	91.2	252	346	303	997	-7.29	-439	34,600	86.9

Notes:

Statewide Health Standard values as per revisions effective August 27, 2016

Samples collected within the zone of seasonal groundwater fluctuation in the wells nearest the boring are compared to the saturated soil standards

Samples collected below the average seasonal low water table in the wells nearest the boring are compared to the Direct Contact values

MTBE = Methyl tertiary butyl ether

TMB = Tri-methyl benzene

ug/kg = Micrograms/kilogram (parts per billion)

-d = Less than the Detection Limit of d

RA = Indicates concentration exceeds the Non-Residential PADEP Statewide Health Standard

2 = Compound was detected at a concentration between the method detection limit and the reporting limit and is estimated

NA = Samples collected below the seasonal low water table

LIBERTY OIL COMPANY #38
700 N. RAILROAD STREET
TAMAQUA, PA.

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Concentrations (ppb/L)											
								Benzene	Ethyl benzene	Isopropyl benzene	Toluene	Xylenes	MTBE	Naphthalene	1,2,4-TMB	1,3,5-TMB	EDC	EDB	Lead
MSC's for Used, Non-Residential Aquifer								5	700	3,500	1,000	15,000	20	100	62	1,200			
MW-1	2/15/05	100.00	4.24	95.76	ND	-	-	1.3	2.4	<2.0	<2.0	<6.0	<2.0	<5.0	<2.0	<1.0	<0.05	<0.36	-
	3/25/09	100.00	4.90	95.10	ND	-	-	2.2	3.6	<2.0	<2.0	<6.0	<2.0	<5.0	<2.0	<1.0	<0.05	<0.36	-
	9/24/09	100.00	4.18	95.82	ND	-	-	6.2	3.2	<2.0	<2.0	<6.0	<2.0	8.1	<2.0	<2.0	<1.0	<0.05	<0.36
	11/12/09	100.00	3.83	96.17	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<1.0	<0.05	<0.36
	3/26/10	100.16	3.56	96.60	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<0.020	<2.0	-
	6/2/10	100.16	4.78	95.38	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<0.020	<2.0	-
	9/1/10	100.16	6.92	93.24	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<0.020	<2.0	-
	12/27/10	100.16	2.40	97.76	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<0.021	<2.0	-
	3/4/11	100.16	3.37	96.79	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<0.019	<2.0	-
	5/6/11	100.16	2.82	97.34	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<0.021	<2.0	-
	9/9/11	100.16	1.48	98.68	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<1.0	<0.050	<0.48
	12/8/11	100.16	2.91	98.15	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<1.0	<0.051	<0.48
	3/27/12	100.16	4.73	95.43	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<1.0	<0.050	0.88
	6/8/12	500.19	2.80	497.39	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<1.0	<0.038	<0.48
	9/6/12	500.19	5.25	494.94	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<1.0	<0.020	<1.5
	12/4/12	500.19	4.51	495.68	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<1.0	<0.020	<1.5
	3/15/13	500.19	2.77	497.42	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-
	6/25/13	500.19	3.96	496.23	ND	-	-	<0.080	<0.10	<0.080	<0.15	<0.13	<0.14	<0.29	<0.13	<0.15	<0.19	<0.020	<1.5
	9/13/13	500.19	5.66	494.53	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-
	12/11/13	500.19	5.65	494.54	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-
3/29/14	500.19	3.15	497.04	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-	
5/27/14	500.19	2.71	497.48	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-	
9/19/14	500.19	6.19	494.00	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-	
12/29/14	500.19	5.00	495.19	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-	
3/13/15	500.19	NM	NM	NM	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-
6/29/15	500.19	2.96	497.23	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-	
9/18/15	500.19	5.41	494.78	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-	
12/11/15	500.19	5.17	495.02	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-	
4/8/16	500.19	2.57	497.62	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-	
6/15/16	500.19	4.44	495.75	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-	
9/22/16	500.19	6.31	493.88	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-	
12/14/16	500.19	6.31	493.88	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-	
3/29/17	500.19	NM	NM	NM	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-
6/22/17	500.19	3.53	496.66	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-	
9/29/17	500.19	4.96	495.23	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-	
12/22/17	500.19	6.35	493.84	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	-	
3/6/18	500.19	2.13	498.06	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-
3/27/18	500.19	NM	NM	NM	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-
4/26/18	500.19	2.24	497.95	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-
5/4/18	500.19	2.92	497.27	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-

LIBERTY OIL COMPANY #38
700 N. RAILROAD STREET
TAMAQUA, PA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Concentrations (ppb/L)													
								Benzene	Ethyl benzene	Isopropyl benzene	Toluene	Xylenes	MTBE	Naphthalene	1,2,4-TMB	1,3,5-TMB	EDC	EDB	Lead		
MSC's for Used, Non-Residential Aquifer								5	700	3,500	1,000	10,000	20	100	62	1,200			0.05	5	
MW-2	2/16/09	99.93	15.29	84.54	ND	-	-	1.4	2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<5.0	11	<2.0	<1.0	<0.05	<0.36
	3/25/09	99.93	15.64	84.29	ND	-	-	5.7	12	8.0	<2.0	<6.0	<2.0	9.7	119	<2.0	<1.0	<0.05	<0.36		
	9/24/09	99.93	15.69	84.24	ND	-	-	2.9	5.8	3.6	<2.0	<6.0	<2.0	<6.0	<2.0	<6.0	<2.0	<1.0	<0.05	<0.36	
	11/12/09	99.93	15.43	84.50	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<2.0	<1.0	<0.05	<0.36	
	3/26/10	100.07	14.99	85.06	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.021	<2.0	
	6/2/10	100.07	15.60	84.47	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.020	<2.0	
	9/1/10	100.07	15.71	84.36	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.021	<4.0	
	12/2/10	100.07	13.06	87.01	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.021	<2.0	
	3/4/11	100.07	14.98	85.09	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.019	<2.0	
	5/6/11	100.07	15.83	84.24	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.021	<2.0	
	9/9/11	100.07	15.63	84.24	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<2.0	<1.0	<0.050	<6.48	
	12/9/11	100.07	13.87	86.20	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<2.0	<1.0	<0.051	<0.48	
	3/27/12	100.07	15.62	84.45	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<2.0	<1.0	<0.049	<0.48	
	6/8/12	500.05	14.98	485.07	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<2.0	<1.0	<0.038	<0.48	
	9/6/12	500.05	15.67	484.38	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<2.0	<1.0	<0.020	<1.5	
	12/4/12	500.05	15.64	484.41	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<2.0	<1.0	<0.020	<1.5	
	3/15/13	500.05	14.75	485.30	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
	6/25/13	500.05	15.65	484.40	ND	-	-	<0.080	<1.0	<0.080	<0.15	<0.13	<0.14	<0.29	<0.13	<0.15	<0.19	<0.020	<1.5		
	9/13/13	500.05	15.42	484.63	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
	12/11/13	500.05	15.56	484.49	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
	3/29/14	500.05	15.32	484.73	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
	5/27/14	500.05	15.14	484.91	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
	9/19/14	500.05	15.78	484.27	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
	12/26/14	500.05	15.17	484.88	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
	3/13/15	500.05	15.30	484.75	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
	6/29/15	500.05	15.21	484.84	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
9/18/15	500.05	15.98	484.07	ND	-	-	<1.0	<1.0	<1.0	1.8	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
12/11/15	500.05	15.65	484.40	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
4/8/16	500.05	15.05	485.00	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5		
6/15/16	500.05	15.90	484.15	ND	-	-	<1.0	<1.0	<1.0	1.4	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.020	<1.5		
9/22/16	500.05	16.01	484.04	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
12/14/16	500.05	15.83	484.22	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
3/29/17	500.05	14.94	485.11	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
6/22/17	500.05	15.47	484.58	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
9/26/17	500.05	15.90	484.15	ND	-	-	<1.0	<1.0	1.1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
12/22/17	500.05	15.96	484.09	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
3/6/18	500.05	14.35	485.70	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
3/27/18	500.05	15.49	484.56	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
4/26/18	500.05	14.85	485.20	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
5/4/18	500.05	15.24	484.81	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

LIBERTY OIL COMPANY #38
700 N. RAILROAD STREET
TAMAQUA, PA.

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LIBERTY OIL COMPANY #38
700 N. RAILROAD STREET
TAMAQUA, PA.

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Benzene (ug/L)	Ethyl benzene (ug/L)	Isopropyl benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	MDEB (ug/L)	Naphthalene (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)	EDC (ug/L)	EDB (ug/L)	Lead (ug/L)
MSC's for Used, Non-Residential Aquifer								5	700	3,500	1,000	10,000	20	100	62	1,200	2	0.05	5
MW-4	9/24/09	99.34	5.43	93.91	4.90	0.53	94.30	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	11/12/09	99.34	4.70	94.64	ND	-	-	4,500	2,190	120	8,400	9,400	970	440	2,900	620	<1.0	<0.05	0.41
	3/26/10	99.66	4.83	94.83	ND	-	-	5,560	1,770	74.2	11,200	9,900	1,620	343	2,960	465	<5.0	<0.021	<2
	6/2/10	99.66	6.22	93.44	6.18	0.04	93.47	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	9/1/10	99.66	8.19	91.47	8.02	0.17	91.59	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	12/2/10	99.66	4.46	95.20	4.43	0.03	95.22	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	3/4/11	99.66	5.29	94.37	5.20	0.09	94.44	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	5/6/11	99.66	4.58	95.08	4.48	0.10	95.15	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	9/9/11	99.66	3.58	96.16	ND	-	-	309	300	27	480	40	60	300	140	<1.0	<0.050	<0.48	<0.48
	12/8/11	99.66	4.36	95.30	ND	-	-	360	310	63	120	260	180	93	300	38	<0.48	<0.48	<0.48
	3/27/12	99.66	9.14	90.52	ND	-	-	960	420	33	520	820	290	94	350	100	<1.0	<0.050	<0.48
	6/8/12	499.65	4.17	495.48	ND	-	-	480	240	21	30	150	89	30	140	<20	<10	<0.038	<0.48
	9/6/12	499.65	6.18	493.47	ND	-	-	340	300	41	430	1,000	92	120	410	130	<1.0	<0.020	<1.5
	12/4/12	499.65	5.95	493.70	ND	-	-	500	360	31	320	950	140	77	340	110	<1.0	<0.020	<1.5
	3/15/13	499.65	4.48	495.17	ND	-	-	300	68	2.6	220	290	100	11	86	19	<1.0	<0.020	<1.5
	6/25/13	499.65	5.12	494.53	ND	-	-	300	220	18	19	52	80	7.0	110	3.7	<0.10	<0.020	<1.5
	9/13/13	499.65	6.79	492.86	ND	-	-	230	230	18	170	720	51	47	350	84	<2.0	<0.020	<1.5
	12/11/13	499.65	6.70	492.95	ND	-	-	260	160	13	240	420	49	29	220	50	<2.0	<0.020	<1.5
	3/20/14	499.65	4.90	494.75	ND	-	-	160	160	11	170	250	160	15	160	12	<1.0	<0.020	<1.5
	5/27/14	499.65	3.39	496.26	ND	-	-	240	110	10	3.0	46	29	7.6	90	4.7	<1.0	<0.020	<1.5
	9/19/14	499.65	7.06	492.59	ND	-	-	54	89	12	28	130	<1.0	16	130	28	<1.0	<0.020	<1.5
	12/26/14	499.65	6.38	493.27	ND	-	-	160	100	9.9	100	170	28	7.6	83	18	<1.0	<0.020	<1.5
	3/13/15	499.65	6.82	492.83	ND	-	-	160	160	13	160	230	32	13	100	27	<1.0	<0.020	<1.5
	6/29/15	499.65	4.57	495.08	ND	-	-	120	130	12	17	57	22	6.2	34	1.3	<1.0	<0.020	<1.5
	9/18/15	499.65	6.37	493.28	ND	-	-	42	44	8.3	15	58	19	6.7	52	11	<1.0	<0.020	<1.5
	12/11/15	499.65	6.25	493.40	ND	-	-	270	140	16	190	250	28	19	80	17	<1.0	<0.020	<1.5
	4/8/16	499.65	4.98	494.67	ND	-	-	260	190	13	54	110	29	13	31	5.0	<2.0	<0.020	<1.5
	6/15/16	499.65	5.66	493.99	ND	-	-	71	39	6.9	10	19	10	2.9	10	0.9	<1.0	<0.020	<1.5
9/22/16	499.65	7.25	492.40	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/14/16	499.65	7.00	492.65	ND	-	-	97	50	14	75	150	12	21	67	18	<1.0	<0.020	<1.5	
3/29/17	499.65	4.92	494.73	ND	-	-	230	140	16	160	260	23	9.9	57	13	<1.0	<0.020	<1.5	
6/22/17	499.65	4.92	494.73	ND	-	-	41	2.8	2.7	<1.0	<2.0	1.3	1.4	1.3	<1.0	<2.0	<0.020	<1.5	<1.5
9/26/17	499.65	5.81	493.84	ND	-	-	66	17	3.4	26	23	7.1	2	6.9	<1.0	<1.0	<0.020	<1.5	<1.5
12/22/17	499.65	7.19	492.46	ND	-	-	53	24	13	19	65	8.0	25	47	9.9	<1.0	<0.020	<1.5	<1.5
3/6/18	499.65	3.54	496.11	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/27/18	499.65	4.55	495.10	ND	-	-	240	140	17	24	220	12	16	170	50	<1.0	<0.020	<1.5	<1.5
4/26/18	499.65	4.29	495.36	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/4/18	499.65	4.22	495.43	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

LIBERTY OIL COMPANY #38
700 N. RAILROAD STREET
TAMAQUA, PA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Concentrations (ppb)										Lead (ppb)		
								Benzene	Ethyl benzene	Isopropyl benzene	Toluene	Xylenes	MTBE	Naphthalene	1,2,4-TMB	1,3,5-TMB	EDC		EDB	
MSC's for Upland Non-Residential Aquifer								5	700	3,560	1,000	10,000	20	100	62	1,200	5	6.65	5	
MW-5	9/24/09	100.00	15.59	84.41	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<1.0	<0.05	<0.36	
	11/12/09	100.00	15.37	84.63	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<1.0	<0.05	<0.36	
	3/26/10	100.00	14.93	85.07	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<0.020	<2.0		
	6/2/10	100.00	15.53	84.47	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<0.020	<2.0		
	9/1/10	100.00	15.64	84.36	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<0.020	<2.0		
	12/2/10	100.00	13.07	86.93	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<0.020	<2.0		
	3/4/11	100.00	14.97	85.03	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<0.019	<2.0		
	5/6/11	100.00	14.81	85.19	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<0.020	<2.0		
	9/9/11	100.00	12.73	87.27	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<1.0	<0.050	<4.48		
	12/8/11	100.00	13.90	86.10	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<1.0	<0.050	<4.48		
	3/27/12	100.00	15.55	84.45	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<1.0	<0.050	<4.48	
	6/8/12	499.96	14.92	485.04	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<1.0	<0.038	<0.46	
	9/6/12	499.96	15.62	484.34	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<1.0	<0.020	<1.5	
	12/4/12	499.96	15.55	484.41	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<6.0	<2.0	<2.0	<1.0	<0.020	<1.5	
	3/15/13	499.96	14.75	485.21	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5		
	6/25/13	499.96	15.56	484.40	ND	-	-	<0.080	<0.10	<0.080	<0.15	<0.13	<0.14	<0.29	<0.13	<0.15	<0.19	<0.020	<1.5	
	9/13/13	499.96	15.40	484.56	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
	12/11/13	499.96	15.47	484.49	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
	3/20/14	499.96	15.24	484.72	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
	5/27/14	499.96	15.06	484.90	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
	9/19/14	499.96	15.69	484.27	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
	12/26/14	499.96	15.11	484.85	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
	3/13/15	499.96	NM	NM	NM	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/29/15	499.96	15.17	484.79	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
9/18/15	499.96	15.85	484.11	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5		
12/11/15	499.96	15.54	484.42	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5		
4/8/16	499.96	15.01	484.95	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5		
6/15/16	499.96	15.78	484.18	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5		
9/22/16	499.96	15.88	484.08	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/14/16	499.96	15.71	484.25	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5		
3/29/17	499.96	14.85	485.11	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5		
6/22/17	499.96	15.38	484.58	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5		
9/26/17	499.96	15.76	484.20	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5		
12/22/17	499.96	15.83	484.13	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5		
3/6/18	499.96	14.39	485.57	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
3/27/18	499.96	15.38	484.58	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5		
4/26/18	499.96	14.80	485.16	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
5/4/18	499.96	15.10	484.86	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

LIBERTY OIL COMPANY #38
700 N. RAILROAD STREET
TAMAQUA, PA.

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Concentrations (ppb)												
								Benzene	Ethyl benzene	Isopropyl benzene	Toluene	Xylenes	MIBK	Naphthalene	1,2,4-TMB	1,3,5-TMB	EDC	EDB	Lead	
MSC's for Used, Non-Residential Aquifer								5	700	3,500	1,000	10,000	20	100	42	1,200	5	5	0.05	5
Mn-6	9/24/09	99.41	16.15	83.26	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<0.05	<0.36
	11/12/09	99.41	15.92	83.49	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<8.0	<2.0	<2.0	<2.0	<1.0	<0.05	0.64
	3/26/10	100.59	15.49	85.10	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.021	<2.0	
	6/2/10	100.59	16.11	84.48	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.020	40	
	9/1/10	100.59	16.21	84.38	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.021	65	
	12/2/10	100.59	13.62	86.97	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.020	2.5	
	3/4/11	100.59	15.53	85.06	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.019	<2.0	
	5/6/11	100.59	15.36	85.23	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.020	4.6	
	9/9/11	100.59	13.18	87.41	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<8.0	<2.0	<2.0	<1.0	<0.050	2.4	
	12/8/11	100.59	14.40	86.19	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<8.0	<2.0	<2.0	<1.0	<0.050	5.0	
	3/27/12	100.59	16.11	84.48	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<8.0	<2.0	<2.0	<1.0	<0.051	44	
	6/8/12	500.98	15.48	485.50	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<8.0	<2.0	<2.0	<1.0	<0.038	12	
	9/6/12	500.98	16.19	484.79	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<8.0	<2.0	<2.0	<1.0	<0.020	16	
	12/4/12	500.98	16.12	484.86	ND	-	-	<1.0	<2.0	<2.0	<2.0	<6.0	<2.0	<8.0	<2.0	<2.0	<1.0	<0.020	12	
	3/15/13	500.98	15.32	485.66	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	5.1	
	6/25/13	500.98	16.13	484.85	ND	-	-	<0.080	<0.10	<0.080	<0.15	<0.13	<0.14	<0.29	<0.13	<0.15	<0.19	<0.020	27	
	9/13/13	500.98	15.96	485.02	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	52	
	12/11/13	500.98	16.03	484.95	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	35	
	3/20/14	500.98	15.79	485.19	ND	-	-	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	18	
	5/27/14	500.98	15.61	485.37	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	3.9	
	9/19/14	500.98	16.25	484.73	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	13	
	12/26/14	500.98	15.67	485.31	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	11	
	3/13/15	500.98	15.77	485.21	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	28	
	6/29/15	500.98	15.74	485.24	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	38	
	9/18/15	500.98	16.43	484.55	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/11/15	500.98	16.12	484.86	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	39	
	4/6/16	500.98	15.56	485.42	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	11	
	8/15/16	500.98	16.35	484.63	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/22/16	500.98	16.45	484.53	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/14/16	500.98	16.28	484.70	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	46	
	3/29/17	500.98	15.40	485.58	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	15	
	6/22/17	500.98	15.94	485.04	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	22	
	9/26/17	500.98	16.33	484.65	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/22/17	500.98	16.39	484.59	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	3/6/18	500.98	14.81	486.17	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	3/27/18	500.98	15.92	485.06	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	5.3	
	4/26/18	500.98	15.34	485.64	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	5/4/18	500.98	15.65	485.33	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

LIBERTY OIL COMPANY #38
700 N. RAILROAD STREET
TAMAQUA, PA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Benzene (ug/L)	Ethyl benzene (ug/L)	Isopropyl benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Naphthalene (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)	EDC (ug/L)	EDB (ug/L)	Lead (ug/L)
MS's for Used, Non-Residential Aquifer								5	700	3,560	1,000	10,000	20	100	62	1,200	5	0.65	5
Mn-7	3/26/90	99.14	4.69	94.45	ND	-	-	931	431	24.7	1,250	973	513	120	336	72.5	-5.0	-0.020	-2.0
	6/2/10	99.14	5.99	93.15	ND	-	-	712	340	21.8	433	479	477	91.1	262	37.1	-5.0	-0.020	-2.0
+	9/1/10	99.14	8.00	91.14	ND	-	-	597	257	15.8	133	242	348	36.6	83.8	22.6	-5.0	-0.020	-2.0
	12/2/10	99.14	4.56	94.58	ND	-	-	706	406	15.5	233	154	274	41.7	77.5	22.1	-5.0	-0.021	-2.0
+	3/4/11	99.14	4.93	94.21	ND	-	-	720	295	16.7	374	328	350	29.9	71.5	18.5	-5.0	-0.019	-2.0
	5/6/11	99.14	5.06	94.08	4.25	0.81	94.67	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
+	9/9/11	99.14	3.26	95.88	ND	-	-	450	370	61	470	1,400	140	200	840	310	-1.0	-0.050	-0.48
	12/8/11	99.14	4.03	95.11	4.02	0.01	95.12	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
+	3/27/12	99.14	5.69	93.43	5.59	0.10	93.52	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	6/8/12	498.83	2.78	495.05	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
+	9/6/12	498.83	6.05	492.78	6.04	0.01	492.79	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	12/4/12	498.83	5.40	493.43	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
+	3/7/13	498.83	3.86	494.97	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	6/25/13	498.83	4.71	494.12	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
+	9/13/13	498.83	6.16	492.67	6.15	0.01	492.68	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	12/11/13	498.83	6.15	492.68	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
+	3/25/14	498.83	4.34	494.49	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	5/27/14	498.83	3.71	495.12	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
+	9/19/14	498.83	7.15	491.68	6.42	0.73	492.21	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	12/26/14	498.83	5.71	493.12	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
+	3/13/15	498.83	5.99	492.84	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	6/29/15	498.83	4.73	494.10	4.10	0.63	494.56	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
+	9/18/15	498.83	6.55	492.28	5.88	0.67	492.77	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	12/11/15	498.83	5.78	493.05	5.78	-0.01	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
+	4/8/16	498.83	4.32	494.51	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	6/15/16	498.83	5.31	493.52	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
+	9/22/16	498.83	6.72	492.11	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	12/14/16	498.83	6.62	492.21	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
+	3/29/17	498.83	4.31	494.52	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	6/22/17	498.83	4.62	494.21	sheen	-	-	160	57	6.0	110	140	22	14	61	15	-1.0	-0.020	-1.5
+	9/20/17	498.83	5.68	493.15	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	12/22/17	498.83	6.73	492.10	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
+	3/6/18	498.83	3.35	495.48	sheen	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/18	498.83	4.43	494.40	sheen	-	-	2,560	540	48	940	1,900	390	190	700	190	-1.0	-0.020	-1.5
+	4/26/18	498.83	3.88	494.95	sheen	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/4/18	498.83	4.04	494.79	sheen	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

LIBERTY OIL COMPANY #38
700 N. RAILROAD STREET
TAMAQUA, PA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Benzene (ug/L)	Ethyl benzene (ug/L)	Isopropyl benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	Naphthalene (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)	EDC (ug/L)	EDB (ug/L)	Lead (ug/L)		
MCS's for Used, Non-Residential Aquifer								5	700	3,500	1,000	10,000	20	100	42	1,200	5	0.65	5		
M/S-6	3/26/90	99.31	8.31	91.00	ND	-	-	825	510	44.1	758	1,850	94.6	110	843	252	<5.0	<0.020	<2.0		
	6/2/10	99.31	9.41	89.90	ND	-	-	820	473	43.9	709	1,810	119	110	791	211	<5.0	<0.020	<2.0		
	9/1/10	99.31	10.64	88.67	10.41	0.23	88.04	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH		
	12/2/10	99.31	8.35	90.96	ND	-	-	190	147	5.2	623	730	8.0	192	180	46.4	<5.0	0.890	<2.0		
	3/4/11	99.31	8.99	90.32	ND	-	-	781	579	45.6	796	2,380	67.1	80.2	841	236	<5.0	0.18	<2.0		
	5/6/11	99.31	8.73	90.58	ND	-	-	674	377	37.1	308	1,240	79.5	65.9	539	160	<5.0	0.035	<2.0		
	9/9/11	99.31	7.78	91.53	ND	-	-	210	160	19	42	460	39	39	226	66	<1.0	<0.050	<0.48		
	12/8/11	99.31	8.44	90.87	ND	-	-	380	290	33	79	770	26	59	430	120	<1.0	<0.851	<0.48		
	3/27/12	99.31	9.64	89.67	9.64	<0.01	89.67	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH		
	6/8/12	499.26	8.73	490.48	ND	-	-	450	370	40	360	1,200	190	190	580	160	<2.0	<0.038	<0.48		
M/S-7	9/6/12	499.26	10.05	489.21	ND	-	-	350	450	59	150	1,100	12	130	790	270	<1.0	<0.020	<1.5		
	12/4/12	499.26	9.80	489.66	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
	3/7/13	499.26	8.68	490.58	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
	6/25/13	499.26	9.18	490.08	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
	9/13/13	499.26	9.80	489.46	9.77	0.03	489.48	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
	12/11/13	499.26	9.74	489.52	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
	3/25/14	499.26	8.85	490.41	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
	5/27/14	499.26	8.51	490.75	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
	9/19/14	499.26	10.00	489.26	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	12/26/14	499.26	9.24	490.02	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
M/S-8	3/13/15	499.26	9.58	489.68	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	6/29/15	499.26	8.70	490.56	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	9/18/15	499.26	9.66	489.60	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	12/11/15	499.26	9.20	490.06	9.20	<0.01	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	4/8/16	499.26	8.62	490.64	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	6/15/16	499.26	9.36	489.90	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	9/22/16	499.26	9.99	489.27	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	12/14/16	499.26	9.81	489.45	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	3/29/17	499.26	5.56	493.70	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	6/22/17	499.26	8.81	490.45	sheen	-	-	41	56	10	4.8	120	<1.0	17	150	43	<1.0	<0.020	<1.5	<1.5	
M/S-9	9/20/17	499.26	9.27	489.99	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	12/22/17	499.26	9.89	489.37	sheen	-	-	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	3/6/18	499.26	7.93	491.33	sheen	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/18	499.26	8.68	490.58	sheen	-	-	270	300	53	69	790	<5.0	96	620	180	<5.0	<0.020	<1.5	<1.5	
	4/26/18	499.26	8.30	490.96	sheen	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/4/18	499.26	8.44	490.82	sheen	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

LIBERTY OIL COMPANY #38
700 N. RAILROAD STREET
TAMAQUA, PA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Certified Groundwater Elevation (ft)	Benzene	Ethyl benzene	Isopropyl benzene	Toluene	Xylenes	MTBE	Naphthalene	1,2,4-TMB	1,3,5-TMB	EDC	EDB	Lead
								(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
MSCs for Used, Non-Residential Aquifer								5	700	3,500	1,000	10,000	20	100	62	1,200	5	0.05	5
MW-9	6/6/12	499.82	15.41	484.41	ND	-	-	150	44	19	9.0	62	13	41	37	7.4	<1.0	<0.038	<0.48
	9/6/12	499.82	16.12	483.70	ND	-	-	14	4.1	8.1	<2.0	<6.0	<2.0	<8.0	<2.0	<2.0	<1.0	<0.020	<1.5
	12/4/12	499.82	16.05	483.77	ND	-	-	34	9.6	13	<2.0	<6.0	3.2	<8.0	<2.0	<2.0	<1.0	<0.020	<1.5
	3/15/13	499.82	15.22	484.60	ND	-	-	33	1.1	<1.0	<1.0	<3.0	8.6	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	6/25/13	499.82	16.08	483.74	ND	-	-	170	17	19	1.4	19.3	17	0.67 J	0.66 J	<0.15	<0.020	<1.5	
	9/13/13	499.82	15.89	483.93	ND	-	-	18	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	12/11/13	499.82	15.42	484.40	ND	-	-	11	<1.0	7.9	<1.0	<3.0	2.5	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	3/20/14	499.82	15.69	484.13	ND	-	-	47	2.2	8.5	<1.0	<2.0	7.4	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	5/27/14	499.82	15.60	484.22	ND	-	-	45	5.3	11	<1.0	<2.0	8.6	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	9/19/14	499.82	16.14	483.68	ND	-	-	1.9	<1.0	5.1	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	12/26/14	499.82	15.51	484.31	ND	-	-	5.5	<1.0	5.0	<1.0	<2.0	3.8	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	3/13/15	499.82	15.56	484.26	ND	-	-	15	<1.0	6.4	<1.0	<2.0	3.8	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	6/29/15	499.82	15.63	484.19	ND	-	-	17	<1.0	8.9	<1.0	<2.0	8.8	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	9/18/15	499.82	16.29	483.53	ND	-	-	1.5	<1.0	4.6	<1.0	<2.0	2.5	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	12/11/15	499.82	15.99	483.83	ND	-	-	1.5	<1.0	4.0	<1.0	<2.0	2.2	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	4/8/16	499.82	15.44	484.38	ND	-	-	5.0	<1.0	4.3	<1.0	<2.0	4.9	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	6/15/16	499.82	16.22	483.60	ND	-	-	6.8	<1.0	6.6	<1.0	<2.0	5.1	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	9/22/16	499.82	16.31	483.51	ND	-	-	2.0	<1.0	2.9	<1.0	<2.0	1.6	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	12/14/16	499.82	16.14	483.68	ND	-	-	1.7	<1.0	2.4	<1.0	<2.0	1.8	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	3/29/17	499.82	15.26	484.56	ND	-	-	8.5	<1.0	6.8	<1.0	<2.0	3.4	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
6/22/17	499.82	15.84	483.98	ND	-	-	11	<1.0	10	<1.0	<2.0	5.9	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
9/20/17	499.82	16.23	483.59	ND	-	-	1.9	<1.0	2.6	<1.0	<2.0	2.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
12/22/17	499.82	16.24	483.58	ND	-	-	<1.0	<1.0	1.2	<1.0	<2.0	1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
3/6/18	499.82	14.96	484.86	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/27/18	499.82	15.85	483.97	ND	-	-	18	<1.0	<1.0	<1.0	<2.0	3.1	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
4/26/18	499.82	15.22	484.60	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5/4/18	499.82	15.55	484.27	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

LIBERTY OIL COMPANY #38
700 N. RAILROAD STREET
TAMAQUA, PA.

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Concentrations (ppb/L)											
								Benzene	Ethyl benzene	Isopropyl benzene	Toluene	Xylenes	MIBK	Naphthalene	1,2,4-TMB	1,3,5-TMB	EDC	EDB	Lead
MSCs for Used Non-Residential Aquifer								700	700	3,500	1,000	20	120	5	5	0.05			
MW-10	6/8/12	499.64	13.05	486.59	ND	-	-	1,700	849	93	305	2,000	180	270	1,300	350	<10	<0.020	0.88
	9/6/12	499.64	14.31	485.33	ND	-	-	4,800	1,500	140	1,200	4,100	230	200	1,700	430	<20	<0.020	<1.5
	12/4/12	499.64	14.24	485.40	ND	-	-	2,200	818	89	710	1,900	120	200	490	250	<10	<0.020	<1.5
	3/15/13	499.64	13.36	486.28	ND	-	-	1,500	410	41	100	720	120	130	590	150	<5.0	<0.020	<1.5
	6/25/13	499.64	14.07	485.57	ND	-	-	2,800	849	90	34	630	160	210	990	150	<1.9	<0.020	<1.5
	9/13/13	499.64	14.10	485.54	ND	-	-	2,800	778	68	48	750	160	180	780	170	<10	<0.020	<1.5
	12/11/13	499.64	14.09	485.55	ND	-	-	2,900	856	70	24	370	130	210	630	20	<10	<0.020	<1.5
	3/20/14	499.64	13.66	485.98	ND	-	-	2,800	610	52	110	490	130	120	460	41	<10	<0.020	<1.5
	5/27/14	499.64	13.20	486.44	ND	-	-	1,300	400	37	83	550	74	126	390	70	<5.0	<0.020	<1.5
	9/19/14	499.64	14.21	485.43	ND	-	-	2,900	958	98	94	1,000	140	220	640	110	<10	<0.020	<1.5
	12/26/14	499.64	13.53	486.11	ND	-	-	1,700	660	71	9.6	140	89	84	350	11	<5.0	<0.020	<1.5
	3/13/15	499.64	13.52	486.12	ND	-	-	630	260	29	25	120	43	56	170	20	<2.0	<0.020	<1.5
	6/29/15	499.64	13.40	486.24	ND	-	-	2,200	670	80	18	340	110	83	460	<10	<10	<0.020	<1.5
	9/18/15	499.64	14.08	485.56	ND	-	-	2,100	490	64	51	220	190	170	45	<10	<0.020	<1.5	
	12/11/15	499.64	13.71	485.93	ND	-	-	1,900	300	43	<10	37	54	39	69	<10	<10	<0.020	<1.5
	4/8/16	499.64	13.42	486.22	ND	-	-	1,300	280	30	38	150	77	30	58	13	<10	<0.020	<1.5
	6/15/16	499.64	13.99	485.65	ND	-	-	2,200	530	60	50	260	130	80	170	29	<10	<0.020	<1.5
	9/22/16	499.64	14.23	485.41	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/16	499.64	14.11	485.53	ND	-	-	3,300	530	55	31	120	95	27	34	<10	<10	<0.020	<1.5
	3/29/17	499.64	13.28	486.36	ND	-	-	810	130	26	6.1	22	60	5.9	13	<5.0	<5.0	<0.020	<1.5
	6/22/17	499.64	13.58	486.06	ND	-	-	330	61	5.7	9.0	42	13	12	29	2.2	<1.0	<0.020	<1.5
9/29/17	499.64	13.95	485.69	ND	-	-	2,500	550	65	20.0	85	68	46	71	14	50	<0.020	<1.5	
12/22/17	499.64	14.21	485.43	ND	-	-	2,000	490	13	24	58	27	20	<5.0	<5.0	<0.020	<1.5		
3/6/18	499.64	12.96	486.68	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
3/27/18	499.64	13.75	485.89	ND	-	-	1,300	130	19	36	240	77	34	76	8.2	<5.0	<0.020	<1.5	
4/26/18	499.64	13.28	486.36	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
5/4/18	499.64	13.51	486.13	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-11	4/8/16	501.37	11.91	489.46	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	6/15/16	501.37	12.89	488.48	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	9/22/16	501.37	13.88	487.49	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	12/14/16	501.37	13.91	487.46	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	3/29/17	501.37	12.23	489.14	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	6/22/17	501.37	12.26	489.11	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	9/29/17	501.37	12.92	488.46	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	12/22/17	501.37	13.76	487.61	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
3/6/18	501.37	10.89	490.48	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
3/27/18	501.37	12.00	489.37	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5	
4/26/18	501.37	11.60	489.77	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
5/4/18	501.37	11.77	489.60	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-12	3/6/18	497.04	5.53	491.51	ND	-	-	460	520	78	120	720	25	160	550	180	<2.0	<0.020	<1.5
	3/27/18	497.04	5.89	491.15	ND	-	-	560	470	79	150	550	29	160	490	150	<2.0	<0.020	<1.5
	4/26/18	497.04	5.76	491.28	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/4/18	497.04	5.74	491.30	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-13	3/6/18	497.44	3.17	494.27	ND	-	-	68	100	8.3	99	210	1.8	12	85	15	<1.0	<0.020	<1.5
	3/27/18	497.44	4.02	493.42	ND	-	-	118	140	11	46	220	1.4	19	150	25	<2.0	<0.020	<1.5
	4/26/18	497.44	3.89	493.55	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/4/18	497.44	3.81	493.63	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY

LIBERTY OIL COMPANY #38
786 N. RAILROAD STREET
TAMPAQUA, PA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Benzene (ppb)	Ethyl benzene (ppb)	Isopropyl benzene (ppb)	Toluene (ppb)	Xylenes (ppb)	MTBE (ppb)	Naphthalene (ppb)	1,2,4-TMB (ppb)	1,3,5-TMB (ppb)	EDC (ppb)	EDB (ppb)	Lead (ppb)
MSCs for Used, Non-Residential Aquifer								5	700	3,500	1,000	10,000	20	100	62	1,200	5	0.05	5
Bridge US	6/2/10	103.87	19.17	84.70	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/1/10	103.87	19.22	84.65	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/2/10	103.87	18.95	86.92	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/11	103.87	18.87	85.00	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/6/11	103.87	18.58	85.29	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/9/11	103.87	18.90	86.97	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/8/11	103.87	17.84	86.03	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/12	103.87	19.18	84.69	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/6/12	503.76	18.67	485.09	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/6/12	503.76	19.19	484.57	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/4/12	503.76	19.09	484.67	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/15/13	503.76	18.55	485.21	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/25/13	503.76	19.03	484.73	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/13/13	503.76	18.96	484.80	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/11/13	503.76	18.90	484.86	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/20/14	503.76	18.82	484.94	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	5/27/14	503.76	18.85	484.91	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	9/19/14	503.76	19.21	484.55	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	12/26/14	503.76	18.75	485.01	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	3/13/15	503.76	18.73	485.03	ND	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	6/29/15	503.76	18.80	484.96	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/18/15	503.76	19.40	484.36	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/11/15	503.76	19.02	484.74	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/8/16	503.76	18.66	485.10	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/15/16	503.76	19.35	484.41	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/22/16	503.76	19.41	484.35	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/16	503.76	19.13	484.63	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/29/17	503.76	18.80	484.96	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/22/17	503.76	19.00	484.76	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/17	503.76	19.31	484.45	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/22/17	503.76	19.32	484.44	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/6/18	503.76	18.60	485.16	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/18	503.76	18.98	484.78	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/26/18	503.76	18.73	485.03	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/4/18	503.76	18.86	484.90	ND	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bridge DS	3/20/14	NM	NM	NM	NM	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	5/27/14	NM	NM	NM	NM	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	9/19/14	NM	NM	NM	NM	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	12/26/14	NM	NM	NM	NM	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5
	3/13/15	NM	NM	NM	NM	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<1.5

Notes:

Statewide Health Standard values as per revisions effective January 8, 2011

MTBE = Methyl tertiary butyl ether

TMB = Trimethylbenzene

EDC = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

ppb = Microgram/liter (parts per billion)

4.24 = Groundwater elevation above the screened interval / indicates concentration exceeds PADEP Statewide Health Standard

ND = Not detected

<# = Less than the detection limit of #

SPH = Separate Phase Hydrocarbons

+ = Oil Absorbent socks present in wells

SPH = Separate Phase Hydrocarbon

NM = Not measured

NS = Not sampled

Corrected groundwater elevation = measured groundwater elevation - [product thickness x (density of gasoline/density of water)]

p of gasoline = 0.729 grams per milliliter

p of water = 1.000 grams per milliliter

Source = How to Effectively Recover Free Product at Leaking Underground Storage Tank Sites: A Guide for State Regulators, EPA 510-R-96-001, United States Environmental Protection Agency, Office of Underground Storage Tanks, September 1996.

J = Result is greater than the Method Detection Limit but less than the Reporting Limit and is an estimated value

APPENDIX A

Sample QA/AC and Waste Disposal Plans

Quality Assurance/Quality Control Program for the Performance of Site Characterization Field Activities & for the Accurate Collection, Storage, Retrieval, Reduction, Analysis and Interpretation of Site Characterization Data

The following items are related to sample collection, management, and analysis of data from soil, water, and vapor samples collected as part of the site investigation:

- **Groundwater:** The monitoring well network is gauged and sampled on a quarterly basis. Prior to collection of groundwater samples, the depth to water or product in each monitoring well is measured. These data along with the total well depths and top of casing elevations are used to calculate the volume of groundwater within each well and the groundwater elevation and hydraulic gradient across the site, respectively. Each monitoring well is then purged of three to five well volumes to ensure a representative sampling matrix. Groundwater samples are then placed into laboratory supplied bottleware, either refrigerated or placed on ice, and submitted under chain of custody documentation for analysis of the PA underground storage tank (UST) short list for leaded and unleaded gasoline constituents via EPA Methods 8260C, 8011, and 200.8.
- **Soil:** All soils are logged and screened using a photoionization detector (PID) for the relative presence of volatile organic compounds which may be indicative of petroleum hydrocarbon impact. Soil samples are then collected using disposable sampling equipment, placed directly into laboratory supplied bottleware, either refrigerated or placed on ice, and submitted under chain of custody documentation for analysis of the PAUST short list for leaded and unleaded gasoline constituents via EPA Method 8260B or 8260C, and 6010C.
- **Soil Vapor:** Soil gas samples are collected with laboratory supplied summa canisters and flow regulators set to collect a four hour composite sample. Disposable tubing and brass fittings are used to connect the summa canister to each vapor well. Each vapor well is evacuated of stagnant air prior to sample collection using a vacuum pump, peristaltic pump, or similar device. Canister pressure readings are collected throughout the test to ensure proper sample collection and to determine the end of the test. The canisters are then submitted to the laboratory under chain of custody documentation for analysis of the PAUST short list for leaded and unleaded gasoline constituents via EPA Method TO 15.
- All non-disposable sampling equipment is decontaminated prior to the collection of the next sample. All gross contamination is wiped from the equipment, then the equipment is washed with a free-rinsing, ammonia free detergent (i.e. liquinox) and a potable water rinse prior to re-use. Disposable materials that have come in contact with contaminated soil or groundwater are containerized and disposed of properly.

- Following laboratory analysis by a Pennsylvania NELAP certified laboratory, the sample data is received by Center Point Tank Services (CPTS). The data is reviewed by the project manager to ensure there were no issues with the laboratory analysis. If any issues arise, CPTS consults with the laboratory directly to address these issues. The data is then tabulated by the project manager and compared to the appropriate Pennsylvania Department of Environmental Protection (DEP) remedial standard and previously collected data to determine the extent of impact, and evaluate remedial effectiveness.

Identification, Management, and Disposition of Solid, Hazardous, Residual & Other Wastes Generated as Part of the Site Characterization

Wastes generated during site characterization activities will be handled as follows:

- Water generated during sampling is treated with granular activated carbon prior to being discharged to the ground surface. Water generated during monitoring well development is either treated with granular activated carbon prior to being discharged to the ground surface or placed in a 55-gallon drum and stored on site pending proper disposal at an approved facility.
- Soil and or rock cuttings generated during excavations, monitoring/vapor well installation and/or soft dig activities will be placed in steel 55 gallon drums and staged on site pending proper disposal at an approved facility.
- General trash generated during all phases of site work including but not limited to used nitrile gloves, poly tubing, and disposable bailers will be placed in a trash bag and disposed of properly for normal trash collection.
- All wastes described above are considered to be non-hazardous materials.

APPENDIX B

UST Closure Report

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT

Prepared For

Mr. Norwood Klotz
600 E. Main Street
Schuylkill Haven, Pennsylvania 17972-1430

Site Location

Liberty Oil Station #38
700 N. Railroad Street
Tamaqua, Pennsylvania 18252
Borough of Tamaqua
Schuylkill County Pennsylvania
Facility ID #54-51586
Removal of Four (4) Underground Storage Tanks

Prepared By

**CENTER POINT TANK SERVICES
INC.**

536 E. Benjamin Franklin Highway
Douglassville, Pennsylvania 19518

October 17, 2008

Tank Handling Activity and Summary Report

Re: Liberty Oil Station # 38
700 N. Railroad Street
Tamaqua, Pennsylvania 18252
Borough of Tamaqua
Schuylkill County
PADEP Facility ID# 54-51586

The following chronology details the events that took place during the removal of four (4) underground storage tanks (USTs) and the related product and non-product piping from the above referenced facility.

During the month of August between August 12th and August 18th, 2008 Center Point Tank Services, Inc. (CPTS) removed the following: UST # 001 which was 3,000 gallons and contained diesel fuel, UST # 002 which was 3,000-gallons and contained gasoline, UST # 003 which was 6,000 gallons and contained gasoline and UST # 004 which was 5,000 gallons and also contained gasoline, five (5) suction dispensing pumps and three (3) fuel delivery islands.

The USTs were constructed of single wall bare unprotected steel and the suction product piping was also single wall bare steel. The systems were listed by the Pennsylvania Department of Environmental Protection (PADEP) as tank # 001 through # 004. The USTs were removed using the December 1, 2001 PADEP Technical Guidance Document "Closure Requirements for Underground Storage Tank Systems".

Upon completion of the removal an inspection of the USTs and related underground piping revealed UST # 001 and # 002 had corrosion holes which breached the USTs and UST # 003 and # 004 were found intact with no obvious holes or visible signs of corrosion. The product piping had severe corrosion holes throughout the entire pipe system.

CPTS's visual observation of the subsurface soil was that a release had occurred from both the tanks and the piping system. Additionally detected were high levels of petroleum odors in the excavated material surrounding the UST systems. Based on the odor and the detection of staining of the subsurface soil it was determined that a suspected reportable release had occurred.

Post excavation soil closure samples were collected using a cut plastic syringe, weighed, and placed in vials of Methanol and Sodium Bisulfate. The samples were preserved on ice and transferred under chain-of-custody for analysis to Test America Laboratories of King of Prussia, Pennsylvania.

Soil closure samples obtained from the UST excavations resulted in levels that are within PADEP's current Statewide Standard Action guidelines. However, the product piping and fuel dispensers did contain detectable levels that exceed PADEP's current guidelines for the target compounds: benzene, ethylbenzene, naphthalene, toluene, 1,2,4, - trimethylbenzene, 1,3,5, - trimethylbenzene and xylene.

Based on the observed soil staining and petroleum odor a verbal Notification of Suspected Contamination was made to PADEP's Northeast Regional Office on August 15, 2008, and on August 20, 2008 a written notice was submitted to PADEP with a copy to the Borough of Tamaqua.

The release was also reported to the Pennsylvania Underground Storage Tank Indemnification Fund.

Prepared by:
Center Point Tank Services, Inc.

A handwritten signature in black ink, appearing to read "Roger J. Tartaglia, Sr.", with a stylized flourish at the end.

Roger J. Tartaglia, Sr.

President

PADEP Certification # 368

CPTS PADEP Certification # 792

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

**UNDERGROUND STORAGE TANK SYSTEM
CLOSURE REPORT FORM**

54-51586
Facility I.D.

Borough of Tamaqua
Municipality

Schuylkill
County

October 17, 2008
Date Prepared

Roger J. Tartaglia, Sr.
Name of Person Submitting Report
(Please Print)

Center Point Tank Services, Inc.
Company Name
(If Applicable)

Contractor/Consultant
Title

Closure Method (Check all that apply):

- ☒ Removal
- ☐ Closure-In-Place
- ☐ Change-In-Service

Site Assessment Results (Check all that apply):

- ☐ No Obvious Contamination - Sample Results Meet Standards/Levels
- ☐ No Obvious Contamination - Sample Results Do Not Meet Standards/Levels
- ☐ Obvious, Localized Contamination - Sample Results Meet Standards/Levels
- ☐ Obvious, Localized Contamination - Sample Results Do Not Meet Standards/Levels
- ☒ Obvious, Extensive Contamination

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

DATE RECEIVED: _____

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Owners who are permanently closing underground storage tanks may use this form to demonstrate that an underground storage tank closure was performed in accordance with the "Closure Requirements for Underground Storage Tank Systems" document. PLEASE PRINT OR TYPE. COMPLETE ALL QUESTIONS.

SECTION I. Owner/Facility/Tank/Waste Management and Disposal Information

1. Facility ID Number 54-51586
2. Facility Name Liberty Oil Station #38
3. Facility County Schuylkill County
4. Facility Municipality Borough of Tamaqua
5. Facility Address 700 N. Railroad Street, Tamaqua, PA 18252
6. Facility Contact Person Mr. Norwood Klotz
7. Facility Telephone Number (570) 385-5459
8. Owner Name Mr. Norwood Klotz
9. Owner Mailing Address 600 E. Main Street, Schuylkill Haven, PA 17972-1430
10. Description of Underground Storage Tanks (Complete for each tank closed)

DATE OF TANK CLOSURE (Month/Day/Year)		08/12-18/2008	08/12-18/08	08/12-18/08	08/12-18/08
Tank Registration Number		001	002	003	004
Estimated Total Capacity (Gallons)		3,000	3,000	6,000	5,000
Substance(s) Stored Throughout Operating Life of Tank (Check All That Apply)	a. Petroleum				
	Unleaded Gasoline	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Leaded Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Aviation Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Jet Fuel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Diesel Fuel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	New Motor Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Used Motor Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other, Please Specify				
NOTE: If Hazardous Substance Block is Checked, Attach Material Safety Data Sheets (MSDS)	b. Hazardous Substance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Name of Principal CERCLA Substance	N/A	N/A	N/A	N/A
	AND Chemical Abstract Service (CAS) No.	N/A	N/A	N/A	N/A
	c. Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Closure Method (Check Only One)	a. Removal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	b. Closure-in-Place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Change-In-Service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Partial System Closure (Yes or No)		No	No	No	No

Yes N/A

- ☒ ☐ 16. If tanks were cleaned on-site:
- a. Briefly describe the disposition of usable product: The tanks were cleaned on-site by CPTS.
There was no usable product.
- b. Briefly describe the disposal of unusable product, sludges, sediments, and wastewater generated during cleaning. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal): Prior to CPTS cleaning the four (4) USTs, five (5) drums of waste/water/sludge were removed from them. The drums remain on site as of this writing.
- c. If tank contents were determined/deemed to be hazardous waste, provide:
- (1) Generator ID Number: N/A
- (2) Licensed Hazardous Waste Transporter Name and ID Number: N/A
- ☐ ☒ 17. If tanks were removed from the site for cleaning:
- a. Provide the name and permit number of the processing, treatment, storage or disposal facility performing the tank cleaning: The USTs were properly cleaned on-site by Center Point Tank Services, Inc. (CPTS).
- b. If tank contents were determined/deemed to be hazardous waste, provide:
- (1) Generator ID Number: N/A
- (2) Licensed Hazardous Waste Transporter Name and ID Number: N/A
18. Briefly describe the disposition of tanks/piping (Attach documentation of proper disposal):
On August 07, 13, 18, and 20, 2008 the USTs, dispensers, piping and bare steel tanks were transported by CPTS to: U.W. Zaprazny, Inc. 2401 Summer Valley Road, New Ringgold, PA 17960. Receipts #12714, #13087, #13143, #13869 and #13209 are attached..
- ☐ ☐ 19. If contaminated soil is excavated:
- a. Briefly describe the disposition and amount 160-170 (tons) of contaminated soil. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):
The contaminated soil remains on site set on 6 mil polysheeting and covered with 6 mil polysheeting.
- b. If contaminated soil is determined/deemed to be hazardous waste, provide:
- (1) Generator ID Number N/A
- (2) Licensed Hazardous Waste Transporter Name and ID Number: N/A

Yes N/A



20. Briefly describe the disposition of and amount approximately 40-tons of uncontaminated soil (attach analyses): The uncontaminated soil was backfilled.

I, Norwood Klotz, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (Print Name)

(relating to unsworn falsification to authorities) that I am the owner of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

Norwood Klotz
Signature of Tank Owner
SEC/TREAS

12/18/08
Date

inserted
12/29/08
Page 5
given to Kapor
to be signed
with other
copies

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 54-51586

Yes N/A

1. Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil:
The excavated soils were stock piled and covered with 6 mil poly sheeting. The cover was secured with weights.
2. Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping:
The product was blown back into tanks using nitrogen.
3. Briefly describe the condition of the tanks and any problems encountered during tank removal:
The #001 and #002 tanks had holes and corrosion. The #003 and #004 tanks were intact and free of holes and corrosion. There were odors in the soil in the excavation of tank #001 and #003. There were no problems encountered during the removal.
4. Briefly describe the method used to purge the tanks of and monitor for explosive vapors:
The USTs were purged using a Coppus Blower and an LEL meter to measure for explosive vapors.
- ☒ ☐ 5. If tanks were cleaned on-site:
 - a. Briefly describe the tank cleaning process: Upon lowering the explosive vapors, the USTs were cut open and entered using supplied air, they were squeegeed and rag wiped clean prior to removal.
 - b. If subcontracted, name and address of company that performed the tank cleaning: N/A
- ☐ ☒ 6. If tanks were closed-in-place, briefly describe the tank fill material: N/A
- ☒ ☐ 7. If contamination was suspected or observed, the "Notification of Contamination" form was submitted.
August 15, 2008, Verbal Notification to PADEP Northeast Region, Mr. Eric Supey.
August 20, 2008, Written Notification to PADEP Northeast Region, Mr. Eric Supey.

SECTION II. (continued)

I, George Wilkins, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904
(Print Name)
(relating to unsworn falsification to authorities) that I am the certified installer who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

George I Wilkins
Signature of Certified Installer

October 17, 2008
Date

93
Installer Certification Number

792
Company Certification Number

Center Point Tank Services, Inc.
Company Name

536 E. Benjamin Franklin Hwy.
Street

Douglassville, Pennsylvania 19518
City/Town, State, Zip

610 - 385 - 4977
Phone

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
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UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 001 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)
Facility ID Number 54-51586

- A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A" if NOT encountered).

Bedrock N/A feet below land surface

Water N/A feet below land surface

- B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).
Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND

- 1). Was obvious contamination observed while excavating?

☐ NO -----> Conduct confirmatory sampling -----> See end of this section for options on submission and maintenance of closure records -----> Do not complete item C.2. below.

☒ YES-----> Report release to DEP within 2 hours -----> Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

Product odor, corrosion and one hole in 3,000-gallon Bare Steel Diesel UST, no staining, no sheen or product in water or soil, no free product in excavation was noted. Samples obtained from under the excavated area.

-----> Complete item C.2. below.

- 2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☒ YES -----> Remove or remediate contaminated soil -----> Conduct confirmatory sampling-----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

☐ NO-----> Continue interim remedial actions -----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO -----> Conduct confirmatory sampling -----> See end of this section for options on submission and maintenance of closure records.

☐ YES-----> Report release to DEP within 2 hours -----> Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

Continue with corrective action -----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

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BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 002 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)
Facility ID Number 54-51586

- A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A" if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND

- 1). Was obvious contamination observed while excavating?

☒ NO -----→ Conduct confirmatory sampling -----→ See end of this section for options on submission and maintenance of closure records -----→ Do not complete item C.2. below.

☐ YES-----→ Report release to DEP within 2 hours -----→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

The 3,000-gallon Bare Steel Gasoline Tank had multiple holes in it. However, there were no product odors in the soil, no stain or sheen in the soil or water, no free product in the excavation. Samples were obtained.

-----→ Complete item C.2. below.

- 2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES -----→ Remove or remediate contaminated soil -----→ Conduct confirmatory sampling-----→ See end of this section for options on submission and maintenance of closure records -----→ Call Indemnification Fund (717-787-0763).

☐ NO-----→ Continue interim remedial actions -----→ See end of this section for options on submission and maintenance of closure records -----→ Call Indemnification Fund (717-787-0763).

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO -----→ Conduct confirmatory sampling -----→ See end of this section for options on submission and maintenance of closure records.

☐ YES-----→ Report release to DEP within 2 hours -----→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

Continue with corrective action -----→ See end of this section for options on submission and maintenance of closure records -----→ Call Indemnification Fund (717-787-0763).

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 003 (complete one sheet for EACH tank system and attach ALL
laboratory sheets pertaining to that system)
Facility ID Number 54-51586

- A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A" if NOT encountered).

Bedrock N/A feet below land surface

Water N/A feet below land surface

- B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND

- 1). Was obvious contamination observed while excavating?

☒ NO -----→ Conduct confirmatory sampling -----→ See end of this section for options on submission and maintenance of closure records -----→ Do not complete item C.2. below.

☐ YES-----→ Report release to DEP within 2 hours -----→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

The 6,000-gal. Bare Steel Gasoline UST had no holes or corrosion. There were some product odors noted in the soil, no sheen or product noted on water or soil. Samples were obtained.

-----→ Complete item C.2. below.

- 2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES -----→ Remove or remediate contaminated soil -----→ Conduct confirmatory sampling-----→ See end of this section for options on submission and maintenance of closure records -----→ Call Indemnification Fund (717-787-0763).

☐ NO-----→ Continue interim remedial actions -----→ See end of this section for options on submission and maintenance of closure records -----→ Call Indemnification Fund (717-787-0763).

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO -----→ Conduct confirmatory sampling -----→ See end of this section for options on submission and maintenance of closure records.

☐ YES-----→ Report release to DEP within 2 hours -----→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

Continue with corrective action -----→ See end of this section for options on submission and maintenance of closure records -----→ Call Indemnification Fund (717-787-0763).

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

**Tank Registration # 004 (complete one sheet for EACH tank system and attach ALL
laboratory sheets pertaining to that system)
Facility ID Number 54-51586**

- A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A" if NOT encountered).

Bedrock N/A feet below land surface

Water N/A feet below land surface

- B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).
Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND

- 1). Was obvious contamination observed while excavating?

☒ NO -----> Conduct confirmatory sampling -----> See end of this section for options on submission and maintenance of closure records -----> Do not complete item C.2. below.

☐ YES-----> Report release to DEP within 2 hours -----> Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

The 5,000-gallon Bare Steel Gasoline UST had no holes or corrosion in it. There were no product odors or sheen or product noted in the soil. Samples were obtained.

-----> Complete item C.2. below.

- 2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES -----> Remove or remediate contaminated soil -----> Conduct confirmatory sampling-----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

☐ NO-----> Continue interim remedial actions -----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO -----> Conduct confirmatory sampling -----> See end of this section for options on submission and maintenance of closure records.

☐ YES-----> Report release to DEP within 2 hours -----> Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

-----> Complete item C.2. below.
Continue with corrective action -----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

- E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

- (a) By the owners and operators who took the UST system out of service;
- (b) By the current owners and operators of the UST system site; or
- (c) By mailing these records to the implementing agency if they cannot be maintained at the closed facility.

At least one option must be chosen. If option (c) is chosen, the closure report form should be sent to the DEP regional office responsible for the county in which the tank is located.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the CAP regulation requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, George Wilkins, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating
(Print Name)

to unsworn falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

George J. Wilkins
Signature of Person Performing Site Assessment

October 17, 2008
Date

Contractor/ Consultant
Title of Person Performing Site Assessment

Center Point Tank Service, Inc.
Name of Company Performing Site Assessment

SAMPLING DATA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#1 Fill End	Ethylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	Benzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	Naphthalene	EPA 8260B	P	Soil	ND ug/kg	250 ug/kg	08/12/2008	08/18/2008
"	Toluene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	1,2,4,- Trimethylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	1,3,5,- Trimethylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008

¹ Where EPA Method 5035 is required, indicate sample collection option in the right hand box of this column using the following codes:

P - Samples placed in a soil sample vial with a preservative present.

E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
# 2 Middle	Ethylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	Benzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	Naphthalene	EPA 8260B	P	Soil	ND ug/kg	250 ug/kg	08/12/2008	08/18/2008
"	Toluene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	1,2,4,- Trimethylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	1,3,5,- Trimethylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008

¹ Where EPA Method 5035 is required, indicate sample collection option in the right hand box of this column using the following codes:

P - Samples placed in a soil sample vial with a preservative present.

E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
# 3 End	Ethylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	Benzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	Naphthalene	EPA 8260B	P	Soil	ND ug/kg	250 ug/kg	08/12/2008	08/18/2008
"	Toluene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	1,2,4,- Trimethylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008
"	1,3,5,- Trimethylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/12/2008	08/18/2008

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P - Samples placed in a soil sample vial with a preservative present.

E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#4 Fill End	Lead	EPA 6010B	P	Soil	13 mg/kg	1.0 mg/kg	08/13/2008	08/20/2008
"	Benzene	EPA 8260B	P	Soil	4.6 ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	Ethylbenzene	EPA 8260B	P	Soil	36 ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	26 ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	Naphthalene	EPA 8260B	P	Soil	87 ug/kg	5.0 ug/kg	08/13/2008	08/19/2008
"	Toluene	EPA 8260B	P	Soil	25 ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	1,2,4,-Trimethylbenzene	EPA 8260B	P	Soil	3200 ug/kg	200 ug/kg	08/13/2008	08/20/2008
"	1,3,5,-Trimethylbenzene	EPA 8260B	P	Soil	300 ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	Xylenes (total)	EPA 8260B	P	Soil	240 ug/kg	12 ug/kg	08/13/2008	08/19/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008

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P - Samples placed in a soil sample vial with a preservative present.

E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#5 Middle	Lead	EPA 6010B	P	Soil	13 mg/kg	1.0 mg/kg	08/13/2008	08/20/2008
"	Benzene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	Ethylbenzene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	Naphthalene	EPA 8260B	P	Soil	ND ug/kg	5.0 ug/kg	08/13/2008	08/19/2008
"	Toluene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	1,2,4,- Trimethylbenzene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/22/2008
"	1,3,5,- Trimethylbenzene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	Xylenes (total)	EPA 8260B	P	Soil	ND ug/kg	12 ug/kg	08/13/2008	08/19/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008

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P - Samples placed in a soil sample vial with a preservative present.

E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#6 End	Lead	EPA 6010B	P	Soil	19 mg/kg	1.0 mg/kg	08/13/2008	08/20/2008
"	Benzene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	Ethylbenzene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	Naphthalene	EPA 8260B	P	Soil	ND ug/kg	5.0 ug/kg	08/13/2008	08/19/2008
"	Toluene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	1,2,4,- Trimethylbenzene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/22/2008
"	1,3,5,- Trimethylbenzene	EPA 8260B	P	Soil	5.5 ug/kg	4.0 ug/kg	08/13/2008	08/19/2008
"	Xylenes (total)	EPA 8260B	P	Soil	ND ug/kg	12 ug/kg	08/13/2008	08/19/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/13/2008	08/19/2008

¹ Where EPA Method 5035 is required, indicate sample collection option in the right hand box of this column using the following codes:

P - Samples placed in a soil sample vial with a preservative present.

E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#7 Diesel Island	Ethylbenzene	EPA 8260B	P	Soil	ND ug/kg	250 ug/kg	08/15/2008	08/22/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	ND ug/kg	250 ug/kg	08/15/2008	08/22/2008
"	Benzene	EPA 8260B	P	Soil	ND ug/kg	250 ug/kg	08/15/2008	08/22/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	250 ug/kg	08/15/2008	08/22/2008
"	Naphthalene	EPA 8260B	P	Soil	ND ug/kg	320 ug/kg	08/15/2008	08/22/2008
"	Toluene	EPA 8260B	P	Soil	ND ug/kg	250 ug/kg	08/15/2008	08/22/2008
"	1,2,4,- Trimethylbenzene	EPA 8260B	P	Soil	ND ug/kg	250 ug/kg	08/15/2008	08/22/2008
"	1,3,5,- Trimethylbenzene	EPA 8260B	P	Soil	ND ug/kg	250 ug/kg	08/15/2008	08/22/2008

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P - Samples placed in a soil sample vial with a preservative present.

E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#8 Suction End	Lead	EPA 6010B	P	Soil	6.7 mg/kg	1.0 mg/kg	08/18/2008	08/20/2008
"	Benzene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	Ethylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/18/2008	08/22/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/18/2008	08/22/2008
"	Naphthalene	EPA 8260B	P	Soil	ND ug/kg	250 ug/kg	08/18/2008	08/22/2008
"	Toluene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	1,2,4,- Trimethylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/18/2008	08/22/2008
"	1,3,5,- Trimethylbenzene	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/18/2008	08/22/2008
"	Xylenes (total)	EPA 8260B	P	Soil	ND ug/kg	600 ug/kg	08/18/2008	08/22/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/18/2008	08/22/2008

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information
(Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#9 Fill Middle	Lead	EPA 6010B	P	Soil	27 mg/kg	1.0 mg/kg	08/18/2008	08/20/2008
"	Benzene	EPA 8260B	P	Soil	42 ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	Ethylbenzene	EPA 8260B	P	Soil	20 ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	5.6 ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	Naphthalene	EPA 8260B	P	Soil	8.9 ug/kg	5.0 ug/kg	08/18/2008	08/22/2008
"	Toluene	EPA 8260B	P	Soil	16 ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	1,2,4,-Trimethylbenzene	EPA 8260B	P	Soil	33 ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	1,3,5,-Trimethylbenzene	EPA 8260B	P	Soil	17 ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	Xylenes (total)	EPA 8260B	P	Soil	39 ug/kg	12 ug/kg	08/18/2008	08/22/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/18/2008	08/22/2008

¹ Where EPA Method 5035 is required, indicate sample collection option in the right hand box of this column using the following codes:

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#10 Vent End	Lead	EPA 6010B	P	Soil	30 mg/kg	1.0 mg/kg	08/18/2008	08/20/2008
"	Benzene	EPA 8260B	P	Soil	9.3 ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	Ethylbenzene	EPA 8260B	P	Soil	6.7 ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	Naphthalene	EPA 8260B	P	Soil	ND ug/kg	5.0 ug/kg	08/18/2008	08/22/2008
"	Toluene	EPA 8260B	P	Soil	8.3 ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	1,2,4,- Trimethylbenzene	EPA 8260B	P	Soil	6.8 ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	1,3,5,- Trimethylbenzene	EPA 8260B	P	Soil	4.5 ug/kg	4.0 ug/kg	08/18/2008	08/22/2008
"	Xylenes (total)	EPA 8260B	P	Soil	16 ug/kg	12 ug/kg	08/18/2008	08/22/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/18/2008	08/22/2008

¹ Where EPA Method 5035 is required, indicate sample collection option in the right hand box of this column using the following codes:

P - Samples placed in a soil sample vial with a preservative present.

E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#11 Vent End	Lead	EPA 6010B	P	Soil	45 mg/kg	1.0 mg/kg	08/19/2008	08/22/2008
"	Benzene	EPA 8260B	P	Soil	130 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	Ethylbenzene	EPA 8260B	P	Soil	210 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	38 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	Naphthalene	EPA 8260B	P	Soil	26 ug/kg	5.0 ug/kg	08/19/2008	08/26/2008
"	Toluene	EPA 8260B	P	Soil	88 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	1,2,4,-Trimethylbenzene	EPA 8260B	P	Soil	230 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	1,3,5,-Trimethylbenzene	EPA 8260B	P	Soil	160 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	Xylenes (total)	EPA 8260B	P	Soil	400 ug/kg	12 ug/kg	08/19/2008	08/26/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/19/2008	08/26/2008

¹ Where EPA Method 5035 is required, indicate sample collection option in the right hand box of this column using the following codes:

P - Samples placed in a soil sample vial with a preservative present.

E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#12 Fill Middle	Lead	EPA 6010B	P	Soil	31 mg/kg	1.0 mg/kg	08/19/2008	08/22/2008
"	Benzene	EPA 8260B	P	Soil	260 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	Ethylbenzene	EPA 8260B	P	Soil	350 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	60 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	Naphthalene	EPA 8260B	P	Soil	40 ug/kg	5.0 ug/kg	08/19/2008	08/26/2008
"	Toluene	EPA 8260B	P	Soil	3100 ug/kg	200 ug/kg	08/19/2008	08/27/2008
"	1,2,4,-Trimethylbenzene	EPA 8260B	P	Soil	440 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	1,3,5,-Trimethylbenzene	EPA 8260B	P	Soil	190 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	Xylenes (total)	EPA 8260B	P	Soil	1500 ug/kg	12 ug/kg	08/19/2008	08/26/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/19/2008	08/26/2008

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P - Samples placed in a soil sample vial with a preservative present.

E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#13 Suction End	Lead	EPA 6010B	P	Soil	28 mg/kg	1.0 mg/kg	08/19/2008	08/26/2008
"	Benzene	EPA 8260B	P	Soil	61 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	Ethylbenzene	EPA 8260B	P	Soil	59 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	26 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	Naphthalene	EPA 8260B	P	Soil	8.9 ug/kg	5.0 ug/kg	08/19/2008	08/26/2008
"	Toluene	EPA 8260B	P	Soil	13 ug/kg	4.0 ug/kg	08/19/2008	08/28/2008
"	1,2,4,- Trimethylbenzene	EPA 8260B	P	Soil	230 ug/kg	4.0 ug/kg	08/19/2008	08/28/2008
"	1,3,5,- Trimethylbenzene	EPA 8260B	P	Soil	140 ug/kg	4.0 ug/kg	08/19/2008	08/26/2008
"	Xylenes (total)	EPA 8260B	P	Soil	250 ug/kg	12 ug/kg	08/19/2008	08/28/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/19/2008	08/26/2008

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E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#14 Gas Pump	Lead	EPA 6010B	P	Soil	110 mg/kg	1.0 mg/kg	08/19/2008	08/26/2008
"	Benzene	EPA 8260B	P	Soil	2100 ug/kg	2000 ug/kg	08/19/2008	08/26/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	2000 ug/kg	08/19/2008	08/26/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	2000 ug/kg	08/19/2008	08/26/2008
"	Ethylbenzene	EPA 8260B	P	Soil	48000 ug/kg	2000 ug/kg	08/19/2008	08/26/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	15000 ug/kg	2000 ug/kg	08/19/2008	08/26/2008
"	Naphthalene	EPA 8260B	P	Soil	80000 ug/kg	2500 ug/kg	08/19/2008	08/26/2008
"	Toluene	EPA 8260B	P	Soil	39000 ug/kg	2000 ug/kg	08/19/2008	08/26/2008
"	1,2,4,- Trimethylbenzene	EPA 8260B	P	Soil	890000 ug/kg	20000 ug/kg	08/19/2008	08/26/2008
"	1,3,5,- Trimethylbenzene	EPA 8260B	P	Soil	400000 ug/kg	20000 ug/kg	08/19/2008	08/26/2008
"	Xylenes (total)	EPA 8260B	P	Soil	840000 ug/kg	6000 ug/kg	08/19/2008	08/26/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	2000 ug/kg	08/19/2008	08/26/2008

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#15 Gas Pump	Lead	EPA 6010B	P	Soil	61 mg/kg	1.0 mg/kg	08/19/2008	08/26/2008
"	Benzene	EPA 8260B	P	Soil	1300 ug/kg	200 ug/kg	08/19/2008	08/26/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/19/2008	08/26/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/19/2008	08/26/2008
"	Ethylbenzene	EPA 8260B	P	Soil	3200 ug/kg	200 ug/kg	08/19/2008	08/26/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	ND ug/kg	20000 ug/kg	08/19/2008	08/26/2008
"	Naphthalene	EPA 8260B	P	Soil	53000 ug/kg	25000 ug/kg	08/19/2008	08/26/2008
"	Toluene	EPA 8260B	P	Soil	8200 ug/kg	200 ug/kg	08/19/2008	08/26/2008
"	1,2,4,-Trimethylbenzene	EPA 8260B	P	Soil	880000 ug/kg	20000 ug/kg	08/19/2008	08/26/2008
"	1,3,5,-Trimethylbenzene	EPA 8260B	P	Soil	520000 ug/kg	20000 ug/kg	08/19/2008	08/26/2008
"	Xylenes (total)	EPA 8260B	P	Soil	440000 ug/kg	60000 ug/kg	08/19/2008	08/26/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	200 ug/kg	08/19/2008	08/26/2008

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E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#16 Gas Piping	Lead	EPA 6010B	P	Soil	160 mg/kg	1.4 mg/kg	08/19/2008	08/26/2008
"	Benzene	EPA 8260B	P	Soil	2200 ug/kg	550 ug/kg	08/19/2008	08/28/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	550 ug/kg	08/19/2008	08/28/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	550 ug/kg	08/19/2008	08/28/2008
"	Ethylbenzene	EPA 8260B	P	Soil	21000 ug/kg	2800 ug/kg	08/19/2008	08/26/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	9300 ug/kg	2800 ug/kg	08/19/2008	08/26/2008
"	Naphthalene	EPA 8260B	P	Soil	110000 ug/kg	3500 ug/kg	08/19/2008	08/26/2008
"	Toluene	EPA 8260B	P	Soil	6400 ug/kg	2800 ug/kg	08/19/2008	08/26/2008
"	1,2,4,-Trimethylbenzene	EPA 8260B	P	Soil	430000 ug/kg	28000 ug/kg	08/19/2008	08/27/2008
"	1,3,5,-Trimethylbenzene	EPA 8260B	P	Soil	170000 ug/kg	2800 ug/kg	08/19/2008	08/26/2008
"	Xylenes (total)	EPA 8260B	P	Soil	190000 ug/kg	8300 ug/kg	08/19/2008	08/26/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	550 ug/kg	08/19/2008	08/26/2008

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N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#17 Piping Gas	Lead	EPA 6010B	P	Soil	55 mg/kg	1.0 mg/kg	08/20/2008	08/26/2008
"	Benzene	EPA 8260B	P	Soil	25 ug/kg	4.0 ug/kg	08/20/2008	08/22/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/20/2008	08/22/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/20/2008	08/22/2008
"	Ethylbenzene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/20/2008	08/22/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/20/2008	08/22/2008
"	Naphthalene	EPA 8260B	P	Soil	46 ug/kg	5.0 ug/kg	08/20/2008	08/22/2008
"	Toluene	EPA 8260B	P	Soil	44 ug/kg	4.0 ug/kg	08/20/2008	08/22/2008
"	1,2,4,- Trimethylbenzene	EPA 8260B	P	Soil	27000 ug/kg	2000 ug/kg	08/19/2008	08/26/2008
"	1,3,5,- Trimethylbenzene	EPA 8260B	P	Soil	24000 ug/kg	2000 ug/kg	08/19/2008	08/26/2008
"	Xylenes (total)	EPA 8260B	P	Soil	1100 ug/kg	12 ug/kg	08/19/2008	08/22/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/19/2008	08/22/2008

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E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#18 Gas Island	Lead	EPA 6010B	P	Soil	88 mg/kg	1.0 mg/kg	08/20/2008	08/26/2008
"	Benzene	EPA 8260B	P	Soil	32000 ug/kg	20000 ug/kg	08/20/2008	08/26/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	20000 ug/kg	08/20/2008	08/26/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	20000 ug/kg	08/20/2008	08/26/2008
"	Ethylbenzene	EPA 8260B	P	Soil	110000 ug/kg	20000 ug/kg	08/20/2008	08/26/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	36000 ug/kg	20000 ug/kg	08/20/2008	08/26/2008
"	Naphthalene	EPA 8260B	P	Soil	110000 ug/kg	25000 ug/kg	08/20/2008	08/26/2008
"	Toluene	EPA 8260B	P	Soil	450000 ug/kg	20000 ug/kg	08/20/2008	08/26/2008
"	1,2,4,-Trimethylbenzene	EPA 8260B	P	Soil	890000 ug/kg	20000 ug/kg	08/19/2008	08/26/2008
"	1,3,5,-Trimethylbenzene	EPA 8260B	P	Soil	300000 ug/kg	20000 ug/kg	08/19/2008	08/26/2008
"	Xylenes (total)	EPA 8260B	P	Soil	1500000 ug/kg	60000 ug/kg	08/19/2008	08/26/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	20000 ug/kg	08/19/2008	08/26/2008

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#19 Gas Piping	Lead	EPA 6010B	P	Soil	88 mg/kg	1.3 mg/kg	08/20/2008	08/26/2008
"	Benzene	EPA 8260B	P	Soil	28000 ug/kg	2600 ug/kg	08/20/2008	08/26/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	2600 ug/kg	08/20/2008	08/26/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	2600 ug/kg	08/20/2008	08/26/2008
"	Ethylbenzene	EPA 8260B	P	Soil	160000 ug/kg	2600 ug/kg	08/20/2008	08/26/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	47000 ug/kg	26000 ug/kg	08/20/2008	08/26/2008
"	Naphthalene	EPA 8260B	P	Soil	94000 ug/kg	3300 ug/kg	08/20/2008	08/26/2008
"	Toluene	EPA 8260B	P	Soil	740000 ug/kg	26000 ug/kg	08/20/2008	08/26/2008
"	1,2,4,-Trimethylbenzene	EPA 8260B	P	Soil	860000 ug/kg	26000 ug/kg	08/19/2008	08/26/2008
"	1,3,5,-Trimethylbenzene	EPA 8260B	P	Soil	220000 ug/kg	2600 ug/kg	08/19/2008	08/26/2008
"	Xylenes (total)	EPA 8260B	P	Soil	1800000 ug/kg	79000 ug/kg	08/19/2008	08/26/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	2600 ug/kg	08/19/2008	08/26/2008

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#20 Contaminated Soil Pile	Lead	EPA 6010B	P	Soil	82 mg/kg	1.0 mg/kg	08/20/2008	08/26/2008
"	Benzene	EPA 8260B	P	Soil	88 ug/kg	4.0 ug/kg	08/20/2008	08/22/2008
"	1,2-Dibromoethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/20/2008	08/22/2008
"	1,2-Dichloroethane	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/20/2008	08/22/2008
"	Ethylbenzene	EPA 8260B	P	Soil	3200 ug/kg	2000 ug/kg	08/20/2008	08/26/2008
"	Isopropylbenzene	EPA 8260B	P	Soil	ND ug/kg	2000 ug/kg	08/20/2008	08/26/2008
"	Naphthalene	EPA 8260B	P	Soil	17000 ug/kg	2500 ug/kg	08/20/2008	08/26/2008
"	Toluene	EPA 8260B	P	Soil	5700 ug/kg	2000 ug/kg	08/20/2008	08/26/2008
"	1,2,4,-Trimethylbenzene	EPA 8260B	P	Soil	160000 ug/kg	2000 ug/kg	08/19/2008	08/26/2008
"	1,3,5,-Trimethylbenzene	EPA 8260B	P	Soil	74000 ug/kg	2000 ug/kg	08/19/2008	08/26/2008
"	Xylenes (total)	EPA 8260B	P	Soil	110000 ug/kg	6000 ug/kg	08/19/2008	08/26/2008
"	Methyl tert-butyl ether	EPA 8260B	P	Soil	ND ug/kg	4.0 ug/kg	08/19/2008	08/22/2008

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DISPOSAL SAMPLE OBTAINED NOVEMBER 03, 2008

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information
(Attachment for Section III.)

Facility ID Number 54-51586

TCLP METALS EXTRACTION BY EPA 1311

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#1 Disposal Sample	Mercury	EPA7470A	N	Soil	ND mg/L	0.00100 mg/L	11/03/2008	11/13/2008
"	Arsenic	EPA 200.7	N	Soil	ND mg/L	0.10 mg/L	11/03/2008	11/13/2008
"	Barium	EPA 200.7	N	Soil	0.76 mg/L	0.010 mg/L	11/03/2008	11/13/2008
"	Cadmium	EPA 200.7	N	Soil	ND mg/L	0.0080 mg/L	11/03/2008	11/13/2008
"	Chromium	EPA 200.7	N	Soil	ND mg/L	0.10 mg/L	11/03/2008	11/13/2008
"	Copper	EPA 200.7	N	Soil	ND mg/L	0.10 mg/L	11/03/2008	11/13/2008
"	Lead	EPA 200.7	N	Soil	ND mg/L	0.20 mg/L	11/03/2008	11/13/2008
"	Nickel	EPA 200.7	N	Soil	ND mg/L	0.10 mg/L	11/03/2008	11/13/2008
"	Selenium	EPA 200.7	N	Soil	ND mg/L	0.20 mg/L	11/03/2008	11/13/2008
"	Silver	EPA 200.7	N	Soil	ND mg/L	0.040 mg/L	11/03/2008	11/13/2008
"	Zinc	EPA 200.7	N	Soil	0.37 mg/L	0.10 mg/L	11/03/2008	11/13/2008

¹ Where EPA Method 5035 is required, indicate sample collection option in the right hand box of this column using the following codes:

P - Samples placed in a soil sample vial with a preservative present.

E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information
(Attachment for Section III.)

Facility ID Number 54-51586

QAM-025-TPH

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#1 Disposal Sample	TPH-QAM	8015 QAM025	N	Soil	25 mg/kg	5.0 mg/kg	11/03/2008	11/12/2008

¹ Where EPA Method 5035 is required, indicate sample collection option in the right hand box of this column using the following codes:

- P - Samples placed in a soil sample vial with a preservative present.
- E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.
- N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information
(Attachment for Section III.)

Facility ID Number 54-51586

TOTAL METALS BY EPA 6000/7000 SERIES METHODS

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#1 Disposal Sample	Arsenic	EPA6010B	N	Soil	2.8 mg/kg	1.0 mg/kg	11/03/2008	11/11/2008
"	Mercury	EPA7471A	N	Soil	ND mg/kg	0.100 mg/kg	11/03/2008	11/11/2008
"	Barium	EPA6010B	N	Soil	62 mg/kg	0.50 mg/kg	11/03/2008	11/11/2008
"	Cadmium	EPA6010B	N	Soil	ND mg/kg	1.0 mg/kg	11/03/2008	11/11/2008
"	Chromium	EPA6010B	N	Soil	8.2 mg/kg	2.5 mg/kg	11/03/2008	11/11/2008
"	Copper	EPA6010B	N	Soil	14 mg/kg	2.5 mg/kg	11/03/2008	11/11/2008
"	Lead	EPA6010B	N	Soil	33 mg/kg	1.0 mg/kg	11/03/2008	11/11/2008
"	Nickel	EPA6010B	N	Soil	6.6 mg/kg	2.5 mg/kg	11/03/2008	11/11/2008
"	Selenium	EPA6010B	N	Soil	ND mg/kg	4.0 mg/kg	11/03/2008	11/11/2008
"	Silver	EPA6010B	N	Soil	ND mg/kg	1.0 mg/kg	11/03/2008	11/11/2008
"	Zinc	EPA6010B	N	Soil	70 mg/kg	2.5 mg/kg	11/03/2008	11/11/2008

¹ Where EPA Method 5035 is required, indicate sample collection option in the right hand box of this column using the following codes:

P - Samples placed in a soil sample vial with a preservative present.

E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260B

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#1 Disposal Sample	Benzene	EPA8260B	N	Soil	ND ug/kg	200 ug/kg	11/03/2008	11/11/2008
"	Toluene	EPA8260B	N	Soil	ND ug/kg	200 ug/kg	11/03/2008	11/11/2008
"	Ethylbenzene	EPA8260B	N	Soil	ND ug/kg	200 ug/kg	11/03/2008	11/11/2008
"	Xylenes (total)	EPA8260B	N	Soil	ND ug/kg	600 ug/kg	11/03/2008	11/11/2008

¹ Where EPA Method 5035 is required, indicate sample collection option in the right hand box of this column using the following codes:

- P - Samples placed in a soil sample vial with a preservative present.
- E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.
- N - Samples placed in soil sample vial without a preservative present.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number 54-51586

GENERAL CHEMISTRY

Sample I.D. (See diagram)	Parameter	Analytical Method ¹		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
#1 Disposal Sample	Flashpoint	ASTM D92-85	N	Soil	No Flash>200	1.00 F	11/03/2008	11/12/2008
"	pH	EPA9045B	N	Soil	6.85 pH Units	pH Units	11/03/2008	11/11/2008
"	Reactive Cyanide	EPA 7.3.3	N	Soil	ND mg/kg	2.5 mg/kg	11/03/2008	11/12/2008
"	Reactive Sulfide	EPA 7.3.4	N	Soil	ND mg/kg	5.0 mg/kg	11/03/2008	11/17/2008
"	% Solids	EPA 160.3	N	Soil	91.4% by Weight	0.01% by Wt.	11/03/2008	11/11/2008

¹ Where EPA Method 5035 is required, indicate sample collection option in the right hand box of this column using the following codes:

- P - Samples placed in a soil sample vial with a preservative present.
- E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.
- N - Samples placed in soil sample vial without a preservative present.

21 August 2008

CENTERPOINT TANK SERVICES, INC

Roger Tartaglia
536 Benjamin Franklin Highway
Douglassville, PA 19518

RE: Liberty #38

Laboratory ID #: KRH0264

Enclosed are the results of analyses for samples received by the laboratory on 08/14/08 09:23. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "O. Burgos", with a stylized flourish at the end.

Oswaldo Burgos
Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/21/08 09:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#1 Fill End	KRH0264-01	Soil	08/12/08 13:30	08/14/08 09:23
#2 Middle	KRH0264-02	Soil	08/12/08 13:40	08/14/08 09:23
#3 End	KRH0264-03	Soil	08/12/08 13:50	08/14/08 09:23



CENTERPOINT TANK SERVICES, INC

536 Benjamin Franklin Highway

Douglasville PA, 19518

Project: Liberty #38

Project Number: NA

Project Manager: Roger Tartaglia

Reported:

08/21/08 09:59

Volatile Organic Compounds by EPA Method 5035/8260B

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Fill End (KRH0264-01) Soil Sampled: 08/12/08 13:30 Received: 08/14/08 09:23									
Ethylbenzene	ND	200	ug/kg dry	50	8081412	08/14/08	08/18/08	EPA 8260B	
Isopropylbenzene	ND	200	"	"	"	"	"	"	
Benzene	ND	200	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	200	"	"	"	"	"	"	
Naphthalene	ND	250	"	"	"	"	"	"	
Toluene	ND	200	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	200	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		92.7 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		93.1 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %	33.4-187		"	"	"	"	
#2 Middle (KRH0264-02) Soil Sampled: 08/12/08 13:40 Received: 08/14/08 09:23									
Ethylbenzene	ND	200	ug/kg dry	50	8081412	08/14/08	08/18/08	EPA 8260B	
Isopropylbenzene	ND	200	"	"	"	"	"	"	
Benzene	ND	200	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	200	"	"	"	"	"	"	
Naphthalene	ND	250	"	"	"	"	"	"	
Toluene	ND	200	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	200	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		91.6 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		92.2 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.1 %	33.4-187		"	"	"	"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/21/08 09:59

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#3 End (KRH0264-03) Soil Sampled: 08/12/08 13:50 Received: 08/14/08 09:23									
Ethylbenzene	ND	200	ug/kg dry	50	8081412	08/14/08	08/18/08	EPA 8260B	
Isopropylbenzene	ND	200	"	"	"	"	"	"	
Benzene	ND	200	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	200	"	"	"	"	"	"	
Naphthalene	ND	250	"	"	"	"	"	"	
Toluene	ND	200	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	200	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		93.5 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		92.5 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.7 %	33.4-187		"	"	"	"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

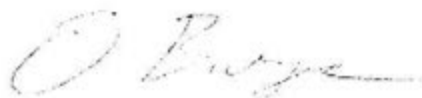
Reported:
08/21/08 09:59

General Chemistry TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Fill End (KR110264-01) Soil Sampled: 08/12/08 13:30 Received: 08/14/08 09:23									
% Solids	92.5	0.01	% by Weight	1	8081416	08/14/08	08/14/08	EPA 160.3	
#2 Middle (KR110264-02) Soil Sampled: 08/12/08 13:40 Received: 08/14/08 09:23									
% Solids	92.2	0.01	% by Weight	1	8081416	08/14/08	08/14/08	EPA 160.3	
#3 End (KR110264-03) Soil Sampled: 08/12/08 13:50 Received: 08/14/08 09:23									
% Solids	92.8	0.01	% by Weight	1	8081416	08/14/08	08/14/08	EPA 160.3	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC

536 Benjamin Franklin Highway

Douglassville PA, 19518

Project: Liberty #38

Project Number: NA

Project Manager: Roger Tartaglia

Reported:

08/21/08 09:59

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



1008 W. Ninth Avenue
King of Prussia, PA 19406
(610) 337-9992
FAX (610) 337-9939

1090 King Georges Post Rd
Suite 803
Edison, NJ 08837
(732) 661-0777
FAX (732) 661-0305

[illegible]

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

1008 W. 9th Ave. - King of Prussia, PA 19606

(610) 337-9992 - FAX (610) 337-9939

22 August 2008

CENTERPOINT TANK SERVICES, INC

Roger Tartaglia
536 Benjamin Franklin Highway
Douglassville, PA 19518

RE: Liberty #38

Laboratory ID #: KRH0285

Enclosed are the results of analyses for samples received by the laboratory on 08/14/08 17:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "O. Burgos", with a long horizontal flourish extending to the right.

Oswaldo Burgos
Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/22/08 14:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#4 Fill End	KRH0285-01	Soil	08/13/08 13:00	08/14/08 17:05
#5 Middle	KRH0285-02	Soil	08/13/08 13:15	08/14/08 17:05
#6 End	KRH0285-03	Soil	08/13/08 13:30	08/14/08 17:05



CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/22/08 14:10

Total Metals by EPA 6000/7000 Series Methods

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#4 Fill End (KRII0285-01) Soil Sampled: 08/13/08 13:00 Received: 08/14/08 17:05									
Lead	13	1.0	mg/kg dry	1	8082001	08/20/08	08/20/08	EPA 6010B	
#5 Middle (KRII0285-02) Soil Sampled: 08/13/08 13:15 Received: 08/14/08 17:05									
Lead	13	1.0	mg/kg dry	1	8082001	08/20/08	08/20/08	EPA 6010B	
#6 End (KRII0285-03) Soil Sampled: 08/13/08 13:30 Received: 08/14/08 17:05									
Lead	19	1.0	mg/kg dry	1	8082001	08/20/08	08/20/08	EPA 6010B	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/22/08 14:10

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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#4 Fill End (KRIH0285-01) Soil Sampled: 08/13/08 13:00 Received: 08/14/08 17:05

Benzene	4.6	4.0	ug/kg dry	1	8081511	08/14/08	08/19/08	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	36	4.0	"	"	"	"	"	"	
Isopropylbenzene	26	4.0	"	"	"	"	"	"	
Naphthalene	87	5.0	"	"	"	"	"	"	
Toluene	25	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	3200	200	"	50	"	"	08/20/08	"	RL7
1,3,5-Trimethylbenzene	300	4.0	"	1	"	"	08/19/08	"	
Xylenes (total)	240	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	42.6-163	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	48.2-167	"	"	"	"	"	
Surrogate: Toluene-d8		101 %	41.6-167	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.9 %	33.4-187	"	"	"	"	"	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	8260B	

#5 Middle (KRIH0285-02) Soil Sampled: 08/13/08 13:15 Received: 08/14/08 17:05

Benzene	ND	4.0	ug/kg dry	1	8081511	08/14/08	08/19/08	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	ND	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	4.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.0	"	"	"	"	08/22/08	"	
1,3,5-Trimethylbenzene	ND	4.0	"	"	"	"	08/19/08	"	
Xylenes (total)	ND	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	42.6-163	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		112 %	48.2-167	"	"	"	"	"	
Surrogate: Toluene-d8		94.1 %	41.6-167	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.7 %	33.4-187	"	"	"	"	"	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	8260B	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/22/08 14:10

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#6 End (KRII0285-03) Soil Sampled: 08/13/08 13:30 Received: 08/14/08 17:05									
Benzene	ND	4.0	ug/kg dry	1	8081511	08/14/08	08/19/08	EPA 8260B	
1,2-Dibromochthane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	ND	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	4.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.0	"	"	"	"	08/22/08	"	
1,3,5-Trimethylbenzene	5.5	4.0	"	"	"	"	08/19/08	"	
Xylenes (total)	ND	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	42.6-163	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		111 %	48.2-167	"	"	"	"	"	
Surrogate: Toluene-d8		95.2 %	41.6-167	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %	33.4-187	"	"	"	"	"	
1,2-Dibromochthane	ND	4.0	"	"	"	"	"	8260B	



CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

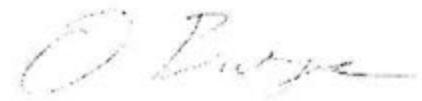
Reported:
08/22/08 14:10

Volatile Organic Compounds by EPA Method 8260B TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#4 Fill End (KRII0285-01) Soil Sampled: 08/13/08 13:00 Received: 08/14/08 17:05									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	8081511	08/14/08	08/19/08	EPA 8260B	
#5 Middle (KRII0285-02) Soil Sampled: 08/13/08 13:15 Received: 08/14/08 17:05									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	8081511	08/14/08	08/19/08	EPA 8260B	
#6 End (KRII0285-03) Soil Sampled: 08/13/08 13:30 Received: 08/14/08 17:05									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	8081511	08/14/08	08/19/08	EPA 8260B	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/22/08 14:10

General Chemistry TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#4 Fill End (KR110285-01) Soil Sampled: 08/13/08 13:00 Received: 08/14/08 17:05									
% Solids	91.0	0.01	% by Weight	1	8081810	08/18/08	08/18/08	EPA 160.3	
#5 Middle (KR110285-02) Soil Sampled: 08/13/08 13:15 Received: 08/14/08 17:05									
% Solids	86.4	0.01	% by Weight	1	8081810	08/18/08	08/18/08	EPA 160.3	
#6 End (KR110285-03) Soil Sampled: 08/13/08 13:30 Received: 08/14/08 17:05									
% Solids	85.3	0.01	% by Weight	1	8081810	08/18/08	08/18/08	EPA 160.3	

TestAmerica King Of Prussia

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/22/08 14:10

Notes and Definitions

RL7 Sample required dilution due to high concentrations of target analyte.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



CHAIN OF CUSTODY REPORT

1008 W. Ninth Avenue
King of Prussia, PA 19406
(610) 337-9992
FAX (610) 337-9939

1090 King Georges Post Rd
Suite 803
Edison, NJ 08837
(732) 661-0777
FAX (732) 661-0305

Client: <u>Compton Tech Services, Inc.</u>		Bill To: <u>"Same"</u>		TAT: (STD) 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address:		Address:		DATE RESULTS NEEDED:	
Report to: <u>Receiv</u>		State & Program: <u>PA Dept of</u>		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
E-mail: <u>Receiv</u>		Phone #: <u>(610) 337-9992</u>		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Project Name: <u>Liberty #30</u>		Fax #: <u>(610) 337-9939</u>		Temp. Upon Receipt:	
Project #/PO#:		Terms: Net 30 days			
Sampler: <u>Ken Adams</u>					

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	LABORATORY ID NUMBER	
				MeOH	NH ₄ OH	HCl	HNO ₃	H ₂ SO ₄	NH ₄ OH	NONE					
1 #4 Fire GND 11'	8/15/08	1:00	S	12							1	4			
2 #5 Marine 11'	8/13/08	1:15	S	12							1	4			
3 #12 GND 11'	8/14/08	1:30	S	12							1	4			
4															
5															
6															
7															
8															
9															
10															

RELINQUISHED	DATE	TIME	RECEIVED	DATE	TIME
	8/15/08	1:00			
	8/15/08	1:00			

COMMENTS:

PAGE OF

29 August 2008

CENTERPOINT TANK SERVICES, INC

Roger Tartaglia
536 Benjamin Franklin Highway
Douglassville, PA 19518

RE: Liberty #38

Laboratory ID #: KRH0406

Enclosed are the results of analyses for samples received by the laboratory on 08/20/08 12:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Oswaldo Burgos
Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/29/08 14:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#11 Vent End	KRH0406-01	Soil	08/19/08 08:20	08/20/08 12:30
#12 Fill Middle	KRH0406-02	Soil	08/19/08 08:30	08/20/08 12:30
#13 Suction End	KRH0406-03	Soil	08/19/08 08:40	08/20/08 12:30
#14 Gas Pump	KRH0406-04	Soil	08/19/08 13:20	08/20/08 12:30
#15 Gas Pump	KRH0406-05	Soil	08/19/08 13:30	08/20/08 12:30
#16 Gas Piping	KRH0406-06	Soil	08/19/08 14:00	08/20/08 12:30

TestAmerica King Of Prussia



Oswaldo Burgos, Project Manager

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CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/29/08 14:44

Total Metals by EPA 6000/7000 Series Methods TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#11 Vent End (KRH0406-01) Soil Sampled: 08/19/08 08:20 Received: 08/20/08 12:30									
Lead	45	1.0	mg/kg dry	1	8082202	08/22/08	08/22/08	EPA 6010B	
#12 Fill Middle (KRH0406-02) Soil Sampled: 08/19/08 08:30 Received: 08/20/08 12:30									
Lead	31	1.0	mg/kg dry	1	8082202	08/22/08	08/22/08	EPA 6010B	
#13 Suction End (KRH0406-03) Soil Sampled: 08/19/08 08:40 Received: 08/20/08 12:30									
Lead	28	1.0	mg/kg dry	1	8082506	08/25/08	08/26/08	EPA 6010B	
#14 Gas Pump (KRH0406-04) Soil Sampled: 08/19/08 13:20 Received: 08/20/08 12:30									
Lead	110	1.0	mg/kg dry	1	8082506	08/25/08	08/26/08	EPA 6010B	
#15 Gas Pump (KRH0406-05) Soil Sampled: 08/19/08 13:30 Received: 08/20/08 12:30									
Lead	61	1.0	mg/kg dry	1	8082506	08/25/08	08/26/08	EPA 6010B	
#16 Gas Piping (KRH0406-06) Soil Sampled: 08/19/08 14:00 Received: 08/20/08 12:30									
Lead	160	1.4	mg/kg dry	1	8082506	08/25/08	08/26/08	EPA 6010B	

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/29/08 14:44

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#11 Vent End (KRH0406-01) Soil Sampled: 08/19/08 08:20 Received: 08/20/08 12:30									
Benzene	130	4.0	ug/kg dry	1	8082214	08/22/08	08/26/08	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	210	4.0	"	"	"	"	"	"	
Isopropylbenzene	38	4.0	"	"	"	"	"	"	
Naphthalene	26	5.0	"	"	"	"	"	"	
Toluene	88	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	230	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	160	4.0	"	"	"	"	"	"	
Xylenes (total)	400	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	33.4-187		"	"	"	"	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	8260B	
#12 Fill Middle (KRH0406-02) Soil Sampled: 08/19/08 08:30 Received: 08/20/08 12:30									
Benzene	260	4.0	ug/kg dry	1	8082214	08/22/08	08/26/08	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	350	4.0	"	"	"	"	"	"	
Isopropylbenzene	60	4.0	"	"	"	"	"	"	
Naphthalene	40	5.0	"	"	"	"	"	"	
Toluene	3100	200	"	50	"	"	08/27/08	"	RL7
1,2,4-Trimethylbenzene	440	4.0	"	1	"	"	08/26/08	"	
1,3,5-Trimethylbenzene	190	4.0	"	"	"	"	"	"	
Xylenes (total)	1500	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		102 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		103 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	33.4-187		"	"	"	"	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	8260B	

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/29/08 14:44

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#13 Suction End (KRH0406-03) Soil Sampled: 08/19/08 08:40 Received: 08/20/08 12:30									
Benzene	61	4.0	ug/kg dry	1	8082214	08/22/08	08/26/08	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	59	4.0	"	"	"	"	"	"	
Isopropylbenzene	26	4.0	"	"	"	"	"	"	
Naphthalene	8.9	5.0	"	"	"	"	"	"	
Toluene	13	4.0	"	"	"	"	08/28/08	"	A-01
1,2,4-Trimethylbenzene	230	4.0	"	"	"	"	"	"	A-01
1,3,5-Trimethylbenzene	140	4.0	"	"	"	"	08/26/08	"	
Xylenes (total)	250	12	"	"	"	"	08/28/08	"	A-01
Surrogate: Dibromofluoromethane		104 %	42.6-163	"	"	"	08/26/08	"	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	48.2-167	"	"	"	"	"	
Surrogate: Toluene-d8		106 %	41.6-167	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	33.4-187	"	"	"	"	"	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	8260B	
#14 Gas Pump (KRH0406-04) Soil Sampled: 08/19/08 13:20 Received: 08/20/08 12:30									
Benzene	2100	2000	ug/kg dry	500	8082214	08/22/08	08/26/08	EPA 8260B	RL7
1,2-Dibromoethane	ND	2000	"	"	"	"	"	"	RL1
1,2-Dichloroethane	ND	2000	"	"	"	"	"	"	RL1
Ethylbenzene	48000	2000	"	"	"	"	"	"	RL7
Isopropylbenzene	15000	2000	"	"	"	"	"	"	RL7
Naphthalene	80000	2500	"	"	"	"	"	"	RL7
Toluene	39000	2000	"	"	"	"	"	"	RL7
1,2,4-Trimethylbenzene	890000	20000	"	5000	"	"	08/26/08	"	RL7
1,3,5-Trimethylbenzene	400000	20000	"	"	"	"	"	"	RL7
Xylenes (total)	840000	6000	"	500	"	"	08/26/08	"	RL7
Surrogate: Dibromofluoromethane		103 %	42.6-163	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		102 %	48.2-167	"	"	"	"	"	
Surrogate: Toluene-d8		106 %	41.6-167	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	33.4-187	"	"	"	"	"	
1,2-Dibromoethane	ND	2000	"	500	"	"	"	8260B	RL1

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/29/08 14:44

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#15 Gas Pump (KRH0406-05) Soil Sampled: 08/19/08 13:30 Received: 08/20/08 12:30									
Benzene	1300	200	ug/kg dry	50	8082214	08/22/08	08/26/08	EPA 8260B	RL7
1,2-Dibromoethane	ND	200	"	"	"	"	"	"	RL1
1,2-Dichloroethane	ND	200	"	"	"	"	"	"	RL1
Ethylbenzene	3200	200	"	"	"	"	"	"	RL7
Isopropylbenzene	ND	20000	"	5000	"	"	08/26/08	"	RL7
Naphthalene	53000	25000	"	"	"	"	"	"	RL7
Toluene	8200	200	"	50	"	"	08/26/08	"	RL7
1,2,4-Trimethylbenzene	880000	20000	"	5000	"	"	08/26/08	"	RL7
1,3,5-Trimethylbenzene	520000	20000	"	"	"	"	"	"	RL7
Xylenes (total)	440000	60000	"	"	"	"	"	"	RL7
Surrogate: Dibromofluoromethane		104 %	42.6-163	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	48.2-167	"	"	"	"	"	
Surrogate: Toluene-d8		94.0 %	41.6-167	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	33.4-187	"	"	"	"	"	
1,2-Dibromoethane	ND	200	"	50	"	"	08/26/08	8260B	RL1
#16 Gas Piping (KRH0406-06) Soil Sampled: 08/19/08 14:00 Received: 08/20/08 12:30									
Benzene	2200	550	ug/kg dry	100	8082214	08/22/08	08/28/08	EPA 8260B	RL7
1,2-Dibromoethane	ND	550	"	"	"	"	"	"	RL1
1,2-Dichloroethane	ND	550	"	"	"	"	"	"	RL1
Ethylbenzene	21000	2800	"	500	"	"	08/26/08	"	RL7
Isopropylbenzene	9300	2800	"	"	"	"	"	"	RL7
Naphthalene	110000	3500	"	"	"	"	"	"	RL7
Toluene	6400	2800	"	"	"	"	"	"	RL7
1,2,4-Trimethylbenzene	430000	28000	"	5000	"	"	08/27/08	"	RL7
1,3,5-Trimethylbenzene	170000	2800	"	500	"	"	08/26/08	"	RL7
Xylenes (total)	190000	8300	"	"	"	"	"	"	RL7
Surrogate: Dibromofluoromethane		103 %	42.6-163	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	48.2-167	"	"	"	"	"	
Surrogate: Toluene-d8		94.7 %	41.6-167	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	33.4-187	"	"	"	"	"	
1,2-Dibromoethane	ND	550	"	100	"	"	08/26/08	8260B	RL1

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/29/08 14:44

Volatile Organic Compounds by EPA Method 8260B TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#11 Vent End (KRH0406-01) Soil Sampled: 08/19/08 08:20 Received: 08/20/08 12:30									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	8082214	08/22/08	08/26/08	EPA 8260B	
Surrogate: Dibromofluoromethane		106 %	42.6-163		"	"	"	"	
#12 Fill Middle (KRH0406-02) Soil Sampled: 08/19/08 08:30 Received: 08/20/08 12:30									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	8082214	08/22/08	08/26/08	EPA 8260B	
Surrogate: Dibromofluoromethane		103 %	42.6-163		"	"	"	"	
#13 Suction End (KRH0406-03) Soil Sampled: 08/19/08 08:40 Received: 08/20/08 12:30									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	8082214	08/22/08	08/26/08	EPA 8260B	
Surrogate: Dibromofluoromethane		104 %	42.6-163		"	"	"	"	
#14 Gas Pump (KRH0406-04) Soil Sampled: 08/19/08 13:20 Received: 08/20/08 12:30									
Methyl tert-butyl ether	ND	2000	ug/kg dry	500	8082214	08/22/08	08/26/08	EPA 8260B	RL7
Surrogate: Dibromofluoromethane		103 %	42.6-163		"	"	"	"	
#15 Gas Pump (KRH0406-05) Soil Sampled: 08/19/08 13:30 Received: 08/20/08 12:30									
Methyl tert-butyl ether	ND	200	ug/kg dry	50	8082214	08/22/08	08/26/08	EPA 8260B	RL7
Surrogate: Dibromofluoromethane		102 %	42.6-163		"	"	"	"	
#16 Gas Piping (KRH0406-06) Soil Sampled: 08/19/08 14:00 Received: 08/20/08 12:30									
Methyl tert-butyl ether	ND	550	ug/kg dry	100	8082214	08/22/08	08/26/08	EPA 8260B	RL7
Surrogate: Dibromofluoromethane		97.6 %	42.6-163		"	"	"	"	

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/29/08 14:44

General Chemistry TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#11 Vent End (KRH0406-01) Soil Sampled: 08/19/08 08:20 Received: 08/20/08 12:30									
% Solids	85.1	0.01	% by Weight	1	8082209	08/22/08	08/22/08	EPA 160.3	
#12 Fill Middle (KRH0406-02) Soil Sampled: 08/19/08 08:30 Received: 08/20/08 12:30									
% Solids	85.0	0.01	% by Weight	1	8082209	08/22/08	08/22/08	EPA 160.3	
#13 Suction End (KRH0406-03) Soil Sampled: 08/19/08 08:40 Received: 08/20/08 12:30									
% Solids	85.7	0.01	% by Weight	1	8082209	08/22/08	08/22/08	EPA 160.3	
#14 Gas Pump (KRH0406-04) Soil Sampled: 08/19/08 13:20 Received: 08/20/08 12:30									
% Solids	81.7	0.01	% by Weight	1	8082209	08/22/08	08/22/08	EPA 160.3	
#15 Gas Pump (KRH0406-05) Soil Sampled: 08/19/08 13:30 Received: 08/20/08 12:30									
% Solids	83.5	0.01	% by Weight	1	8082209	08/22/08	08/22/08	EPA 160.3	
#16 Gas Piping (KRH0406-06) Soil Sampled: 08/19/08 14:00 Received: 08/20/08 12:30									
% Solids	72.4	0.01	% by Weight	1	8082209	08/22/08	08/22/08	EPA 160.3	

TestAmerica King Of Prussia

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

Page 7 of 8

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/29/08 14:44

Notes and Definitions

RL7 Sample required dilution due to high concentrations of target analyte.

RL1 Reporting limit raised due to sample matrix effects.

MHA Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).

M2 The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

A-01 These analytes are reported from a sample that was prepared using drinking water. The provided NaHSO₄ preserved samples were used and another re-run was required.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



CHAIN OF CUSTODY REPORT

FAX (732) 661-0305

Client: CENTER POWER TANK SERVICES, INC		Bill To: Same		TAT: STD		5 DAY		3 DAY		2 DAY		1 DAY		<24 HRS	
Address: 586 E. BENTON BLVD. - ITTLE ROCK, AR 72116		Address:		Received:		ice		ambient		DATE RESULTS NEEDED:		Temp. Upon Receipt:			
Report to: D. G. GASS, JR. PA 19510		Phone #: (610) 385-4477		Fax #: (610) 385-4978		FABER UT		Phone #:		Fax #:		Terms: Net 30 days			
E-mail: fager		Slate & Program:		MAOH		HCl		HNO3		H2SO4		NONE			
Project Name: LIBRARY #38		DATE COLLECTED		TIME COLLECTED		SAMPLE MATRIX		# of Bottles Preservative Used		TOTAL # OF BOTTLES		SAPLES REID FILTERED			
Project #/PO#:		DATE COLLECTED		TIME COLLECTED		SAMPLE MATRIX		# of Bottles Preservative Used		TOTAL # OF BOTTLES		SAPLES REID FILTERED			
Sampler: FAY ADAMS		DATE COLLECTED		TIME COLLECTED		SAMPLE MATRIX		# of Bottles Preservative Used		TOTAL # OF BOTTLES		SAPLES REID FILTERED			
FIELD ID, LOCATION		DATE COLLECTED		TIME COLLECTED		SAMPLE MATRIX		# of Bottles Preservative Used		TOTAL # OF BOTTLES		SAPLES REID FILTERED			
1	#11 YENT END	12'	8/4/00	8:20	S	12	MAOH	1	1	1	1	1	1	1	1
2	#12 Fin Middle	12'	8/4/00	8:30	S	12	MAOH	1	1	1	1	1	1	1	1
3	#13 Section END	12'	8/4/00	8:40	S	12	MAOH	1	1	1	1	1	1	1	1
4	#14 Gas Pump	3'	8/4/00	1:20	S	12	MAOH	1	1	1	1	1	1	1	1
5	#15 Gas Pump	3'	8/4/00	1:30	S	12	MAOH	1	1	1	1	1	1	1	1
6	#16 Gas P.R.H.S	3'	8/4/00	2:00	S	12	MAOH	1	1	1	1	1	1	1	1
7															
8															
9															
10															
RELINQUISHED		8/12/00	8/12/00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00
RELINQUISHED		8/12/00	8/12/00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00
COMMENTS:															

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THE LEADER IN ENVIRONMENTAL TESTING

1008 W 9th Ave. - King of Prussia, PA 19606

(610) 337-9992 - FAX (610) 337-9939

28 August 2008

CENTERPOINT TANK SERVICES, INC

Roger Tartaglia
536 Benjamin Franklin Highway
Douglassville, PA 19518

RE: Liberty #38

Laboratory ID #: KRH0413

Enclosed are the results of analyses for samples received by the laboratory on 08/21/08 08:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Oswaldo Burgos
Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA. 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/28/08 15:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#17 Piping Gas	KRH0413-01	Soil	08/20/08 08:20	08/21/08 08:20
#18 Gas Island	KRH0413-02	Soil	08/20/08 09:10	08/21/08 08:20
#19 Gas Piping	KRH0413-03	Soil	08/20/08 09:30	08/21/08 08:20
#20 Contaminated Soil Pile	KRH0413-04	Soil	08/20/08 09:50	08/21/08 08:20

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

Page 1 of 7

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/28/08 15:38

Total Metals by EPA 6000/7000 Series Methods

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared -	Analyzed	Method	Notes
#17 Piping Gas (KRH0413-01) Soil Sampled: 08/20/08 08:20 Received: 08/21/08 08:20									
Lead	55	1.0	mg/kg dry	1	8082506	08/25/08	08/26/08	EPA 6010B	
#18 Gas Island (KRH0413-02) Soil Sampled: 08/20/08 09:10 Received: 08/21/08 08:20									
Lead	88	1.0	mg/kg dry	1	8082506	08/25/08	08/26/08	EPA 6010B	
#19 Gas Piping (KRH0413-03) Soil Sampled: 08/20/08 09:30 Received: 08/21/08 08:20									
Lead	88	1.3	mg/kg dry	1	8082506	08/25/08	08/26/08	EPA 6010B	
#20 Contaminated Soil Pile (KRH0413-04) Soil Sampled: 08/20/08 09:50 Received: 08/21/08 08:20									
Lead	82	1.0	mg/kg dry	1	8082506	08/25/08	08/26/08	EPA 6010B	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/28/08 15:38

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#17 Piping Gas (KRH0413-01) Soil Sampled: 08/20/08 08:20 Received: 08/21/08 08:20									
Benzene	25	4.0	ug/kg dry	1	8082116	08/21/08	08/22/08	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	ND	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	4.0	"	"	"	"	"	"	
Naphthalene	46	5.0	"	"	"	"	"	"	
Toluene	44	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	27000	2000	"	500	"	"	08/26/08	"	RL7
1,3,5-Trimethylbenzene	24000	2000	"	"	"	"	"	"	RL7
Xylenes (total)	1100	12	"	1	"	"	08/22/08	"	
Surrogate: Dibromofluoromethane		103 %	42.6-163	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		108 %	48.2-167	"	"	"	"	"	
Surrogate: Toluene-d8		98.9 %	41.6-167	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		118 %	33.4-187	"	"	"	"	"	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	8260B	
#18 Gas Island (KRH0413-02) Soil Sampled: 08/20/08 09:10 Received: 08/21/08 08:20									
Benzene	32000	20000	ug/kg dry	5000	8082116	08/21/08	08/26/08	EPA 8260B	RL7
1,2-Dibromoethane	ND	20000	"	"	"	"	"	"	RL1
1,2-Dichloroethane	ND	20000	"	"	"	"	"	"	RL1
Ethylbenzene	110000	20000	"	"	"	"	"	"	RL7
Isopropylbenzene	36000	20000	"	"	"	"	"	"	RL7
Naphthalene	110000	25000	"	"	"	"	"	"	RL7
Toluene	450000	20000	"	"	"	"	"	"	RL7
1,2,4-Trimethylbenzene	890000	20000	"	"	"	"	"	"	RL7
1,3,5-Trimethylbenzene	300000	20000	"	"	"	"	"	"	RL7
Xylenes (total)	1500000	60000	"	"	"	"	"	"	RL7
Surrogate: Dibromofluoromethane		104 %	42.6-163	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		102 %	48.2-167	"	"	"	"	"	
Surrogate: Toluene-d8		100 %	41.6-167	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %	33.4-187	"	"	"	"	"	
1,2-Dibromoethane	ND	20000	"	5000	"	"	"	8260B	RL1

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/28/08 15:38

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#19 Gas Piping (KRH0413-03) Soil Sampled: 08/20/08 09:30 Received: 08/21/08 08:20									
Benzene	28000	2600	ug/kg dry	500	8082116	08/21/08	08/26/08	EPA 8260B	RL7
1,2-Dibromoethane	ND	2600	"	"	"	"	"	"	RL1
1,2-Dichloroethane	ND	2600	"	"	"	"	"	"	RL1
Ethylbenzene	160000	2600	"	"	"	"	"	"	RL7
Isopropylbenzene	47000	26000	"	5000	"	"	08/26/08	"	RL7
Naphthalene	94000	3300	"	500	"	"	08/26/08	"	RL7
Toluene	740000	26000	"	5000	"	"	08/26/08	"	RL7
1,2,4-Trimethylbenzene	860000	26000	"	"	"	"	"	"	RL7
1,3,5-Trimethylbenzene	220000	2600	"	500	"	"	08/26/08	"	RL7
Xylenes (total)	1800000	79000	"	5000	"	"	08/26/08	"	RL7
Surrogate: Dibromofluoromethane		98.8 %	42.6-163	"	"	"	08/26/08	"	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	48.2-167	"	"	"	"	"	
Surrogate: Toluene-d8		108 %	41.6-167	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	33.4-187	"	"	"	"	"	
1,2-Dibromoethane	ND	2600	"	500	"	"	"	8260B	RL1

#20 Contaminated Soil Pile (KRH0413-04) Soil Sampled: 08/20/08 09:50 Received: 08/21/08 08:20

Benzene	88	4.0	ug/kg dry	1	8082116	08/21/08	08/22/08	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	Z2
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	3200	2000	"	500	"	"	08/26/08	"	RL7
Isopropylbenzene	ND	2000	"	"	"	"	08/26/08	"	RL1
Naphthalene	17000	2500	"	"	"	"	08/26/08	"	RL7
Toluene	5700	2000	"	"	"	"	"	"	RL7
1,2,4-Trimethylbenzene	160000	2000	"	"	"	"	"	"	RL7
1,3,5-Trimethylbenzene	74000	2000	"	"	"	"	"	"	RL7
Xylenes (total)	110000	6000	"	"	"	"	"	"	RL7
Surrogate: Dibromofluoromethane		103 %	42.6-163	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	48.2-167	"	"	"	"	"	
Surrogate: Toluene-d8		101 %	41.6-167	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	33.4-187	"	"	"	"	"	
1,2-Dibromoethane	ND	4.0	"	"	"	"	08/22/08	8260B	Z2

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC.
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/28/08 15:38

Volatile Organic Compounds by EPA Method 8260B

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#17 Piping Gas (KRH0413-01) Soil Sampled: 08/20/08 08:20 Received: 08/21/08 08:20									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	8082116	08/21/08	08/22/08	EPA 8260B	
Surrogate: Dibromofluoromethane		105 %	42.6-163		"	"	"	"	
#18 Gas Island (KRH0413-02) Soil Sampled: 08/20/08 09:10 Received: 08/21/08 08:20									
Methyl tert-butyl ether	ND	20000	ug/kg dry	5000	8082116	08/21/08	08/26/08	EPA 8260B	RL7
Surrogate: Dibromofluoromethane		104 %	42.6-163		"	"	"	"	
#19 Gas Piping (KRH0413-03) Soil Sampled: 08/20/08 09:30 Received: 08/21/08 08:20									
Methyl tert-butyl ether	ND	2600	ug/kg dry	500	8082116	08/21/08	08/26/08	EPA 8260B	RL7
Surrogate: Dibromofluoromethane		98.8 %	42.6-163		"	"	"	"	
#20 Contaminated Soil Pile (KRH0413-04) Soil Sampled: 08/20/08 09:50 Received: 08/21/08 08:20									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	8082116	08/21/08	08/22/08	EPA 8260B	
Surrogate: Dibromofluoromethane		108 %	42.6-163		"	"	"	"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA. 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/28/08 15:38

General Chemistry

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#17 Piping Gas (KRH0413-01) Soil Sampled: 08/20/08 08:20 Received: 08/21/08 08:20									
% Solids	92.0	0.01	% by Weight	1	8082209	08/22/08	08/22/08	EPA 160.3	
#18 Gas Island (KRH0413-02) Soil Sampled: 08/20/08 09:10 Received: 08/21/08 08:20									
% Solids	83.6	0.01	% by Weight	1	8082209	08/22/08	08/22/08	EPA 160.3	
#19 Gas Piping (KRH0413-03) Soil Sampled: 08/20/08 09:30 Received: 08/21/08 08:20									
% Solids	75.9	0.01	% by Weight	1	8082209	08/22/08	08/22/08	EPA 160.3	
#20 Contaminated Soil Pile (KRH0413-04) Soil Sampled: 08/20/08 09:50 Received: 08/21/08 08:20									
% Solids	90.4	0.01	% by Weight	1	8082209	08/22/08	08/22/08	EPA 160.3	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
08/28/08 15:38

Notes and Definitions

Z2 Surrogate recovery was above the acceptance limits. Data not impacted.

RL7 Sample required dilution due to high concentrations of target analyte.

RL1 Reporting limit raised due to sample matrix effects.

M2 The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Client: <u>Center Point Tank Services, Inc.</u>		Bill To: <u>"Same"</u>		TAT: <u>STD</u> 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.		DATE RESULTS NEEDED:	
Address: <u>536 E. BROADMAN FRANKLIN HIGHWAY</u>		Address:		Received: <input type="checkbox"/> ICE <input type="checkbox"/> ambient		Temp. Upon Receipt: <u>21</u>	
Report to: <u>Deerassville, PA 19518</u>		State & Program: <u>PA DEP USE</u>		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES			
E-mail: <u>Robert</u>		Phone #: <u>(610) 385-4977</u>		Fax #: <u>(610) 385-4970</u>			
Project Name: <u>Library 38</u>		Slate & Program:		Terms: Not 30 days			
Project #/PO#:		# of Bottles Preservative Used		TOTAL # OF BOTTLES		SAMPLE CONTROL	
Sampler: <u>Kay Adams</u>		MAHSAI HCl HNO3 H2SO4 NaOH NONE		SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO		CRACKED BROKEN IMPROPERLY SEALED	
FIELD ID, LOCATION		SAMPLE MATRIX		ANALYSIS TYPE		LABORATORY ID NUMBER	
1	#17 PIVOTAL GAS 2 1/2' PID:	DATE COLLECTED: <u>8/24/08</u>	TIME COLLECTED: <u>8:20</u>	MAHSAI	1	✓	<u>NRH041301</u>
2	#18 GAS ISOLATION 3' PID:	DATE COLLECTED: <u>8/24/08</u>	TIME COLLECTED: <u>9:10</u>	MAHSAI	1	✓	<u>02</u>
3	#19 GAS ISOLATION 2 1/2' PID:	DATE COLLECTED: <u>8/24/08</u>	TIME COLLECTED: <u>9:30</u>	MAHSAI	1	✓	<u>033</u>
4	#20 CONTAMINATED SOIL PIVOTAL PID:	DATE COLLECTED: <u>8/24/08</u>	TIME COLLECTED: <u>9:50</u>	MAHSAI	1	✓	<u>034</u>
5	PID:						
6	PID:						
7	PID:						
8	PID:						
9	PID:						
10	PID:						
RELINQUISHED: <u>8/21/08</u>		RECEIVED: <u>8/21/08</u>		DATE: <u>8/21/08</u>		TIME: <u>10:20</u>	
RELINQUISHED: <u>10:20</u>		RECEIVED: <u>10:20</u>		DATE: <u>10/20/08</u>		TIME: <u>10:20</u>	
COMMENTS:							
				PAGE		OF	

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THE LEADER IN ENVIRONMENTAL TESTING

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(610) 337-9992 - FAX (610) 337-9939

17 November 2008

CENTERPOINT TANK SERVICES, INC

Roger Tartalia
536 Benjamin Franklin Highway
Douglassville, PA 19518

RE: Liberty #38

Laboratory ID #: KRK0175

Enclosed are the results of analyses for samples received by the laboratory on 11/10/08 09:51. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Oswaldo Burgos
Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
11/17/08 15:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#1 Disposal Sample	KRK0175-01	Soil	11/03/08 10:00	11/10/08 09:51

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
11/17/08 15:03

TCLP Metals Extraction by EPA 1311
TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Disposal Sample (KRK0175-01) Soil Sampled: 11/03/08 10:00 Received: 11/10/08 09:51									
Mercury	ND	0.00100	mg/L	1	8111203	11/12/08	11/13/08	EPA 7470A	
Arsenic	ND	0.10	"	"	8111214	11/12/08	11/13/08	EPA 200.7	
Barium	0.76	0.010	"	"	"	"	"	"	
Cadmium	ND	0.0080	"	"	"	"	"	"	
Chromium	ND	0.10	"	"	"	"	"	"	
Copper	ND	0.10	"	"	"	"	"	"	
Lead	ND	0.20	"	"	"	"	"	"	
Nickel	ND	0.10	"	"	"	"	"	"	
Selenium	ND	0.20	"	"	"	"	"	"	
Silver	ND	0.040	"	"	"	"	"	"	
Zinc	0.37	0.10	"	"	"	"	"	"	L

TestAmerica King Of Prussia

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
11/17/08 15:03

QAM-025-TPH
TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Disposal Sample (KRK0175-01) Soil Sampled: 11/03/08 10:00 Received: 11/10/08 09:51									
TPH- QAM	25	5.0	mg/kg dry	1	8111025	11/11/08	11/12/08	8015 QAM025	
Surrogate: o-Terphenyl		87.5 %	70-130		"	"	"	"	
Surrogate: Chlorobenzene		52.9 %	70-130		"	"	"	"	26

TestAmerica King Of Prussia

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia


Reported:
11/17/08 15:03

Total Metals by EPA 6000/7000 Series Methods TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Disposal Sample (KRK0175-01) Soil Sampled: 11/03/08 10:00 Received: 11/10/08 09:51									
Arsenic	2.8	1.0	mg/kg dry	1	8111104	11/11/08	11/11/08	EPA 6010B	
Mercury	ND	0.100	"	"	8111105	11/11/08	11/11/08	EPA 7471A	
Barium	62	0.50	"	"	8111104	11/11/08	11/11/08	6010B	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	8.2	2.5	"	"	"	"	"	"	
Copper	14	2.5	"	"	"	"	"	"	
Lead	33	1.0	"	"	"	"	"	"	
Nickel	6.6	2.5	"	"	"	"	"	"	
Selenium	ND	4.0	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Zinc	70	2.5	"	"	"	"	"	"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia


Reported:
11/17/08 15:03

Volatile Organic Compounds by EPA Method 8260B TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Disposal Sample (KRK0175-01) Soil Sampled: 11/03/08 10:00 Received: 11/10/08 09:51									P2
Benzene	ND	200	ug/kg dry	50	8111122	11/11/08	11/11/08	EPA 8260B	
Toluene	ND	200	"	"	"	"	"	"	
Ethylbenzene	ND	200	"	"	"	"	"	"	
Xylenes (total)	ND	600	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		91.3 %	41.6-167		"	"	"	"	

TestAmerica King Of Prussia

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
11/17/08 15:03

General Chemistry TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Disposal Sample (KRK0175-01) Soil Sampled: 11/03/08 10:00 Received: 11/10/08 09:51									
Flashpoint	NO	1.00	°F	1	8111205	11/12/08	11/12/08	ASTM D92-85	
pH	Flash>200 6.85		pH Units	"	8111109	11/11/08	11/11/08	EPA 9045B	HFT
Reactive Cyanide	ND	2.5	mg/kg dry	"	8111218	11/12/08	11/12/08	EPA 7.3.3	
Reactive Sulfide	ND	5.0	"	"	8111219	11/12/08	11/17/08	EPA 7.3.4	L2
% Solids	91.4	0.01% by Weight	"	"	8111124	11/11/08	11/11/08	EPA 160.3	

TestAmerica King Of Prussia

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
11/17/08 15:03

Notes and Definitions

Z6 Surrogate recovery was below acceptance limits.

R2 The RPD exceeded the acceptance limit.

P2 Sample received without chemical preservation, but preserved by the laboratory.

MHA Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).

M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

M2 The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

M1 The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

L2 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.

L Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.

HFT The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



CHAIN OF CUSTODY REPORT

1008 W. Ninth Avenue
King of Prussia, PA 19406
(610) 337-9992
FAX (610) 337-9939

1090 King Georges Post Rd
Suite 803
Edison, NJ 08837
(732) 661-0777
FAX (732) 661-0305

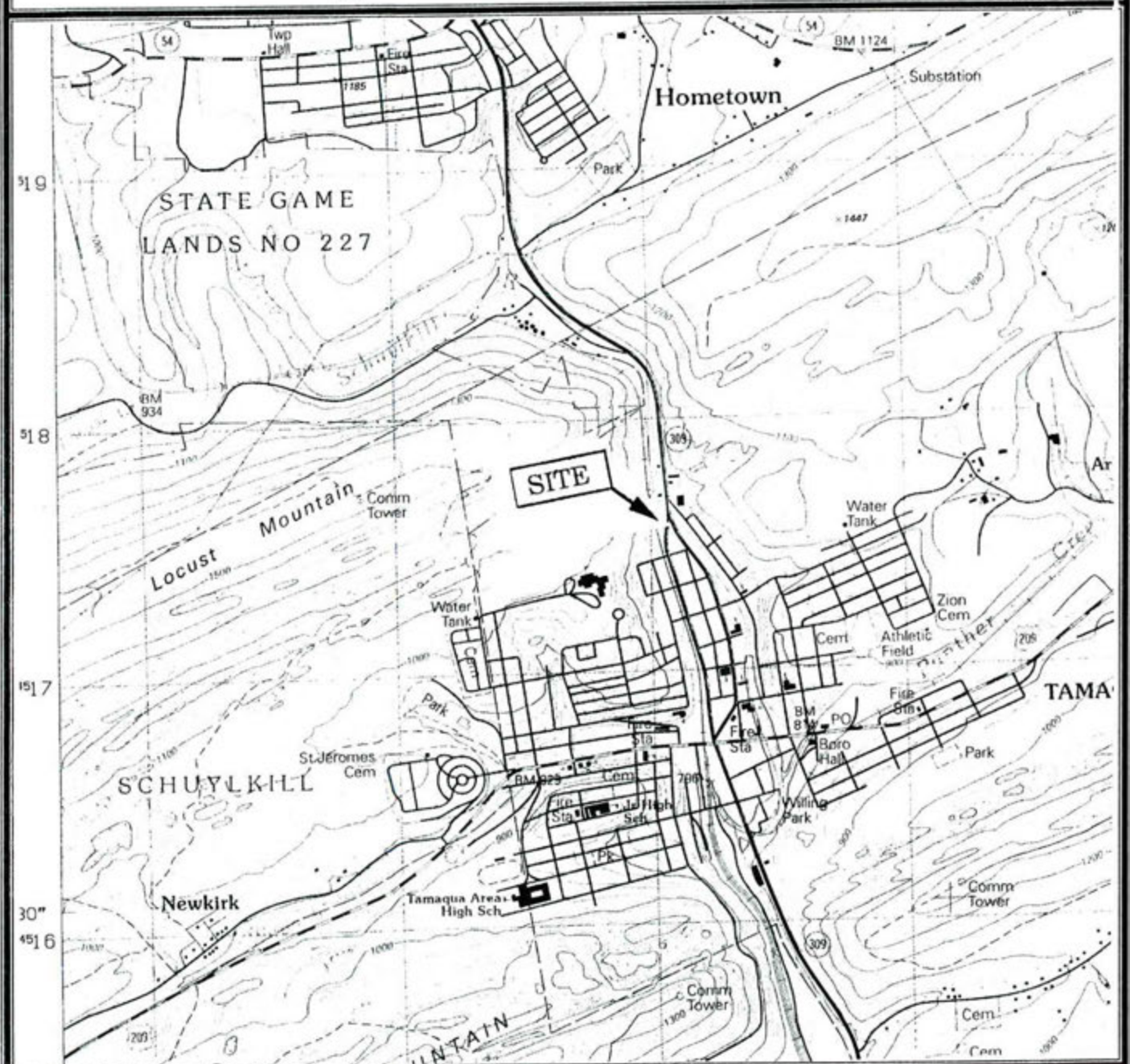
Client: <i>County of Bucks</i>		Bill To:		TAT: STD. (5 DAY / 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS. DATE RESULTS NEEDED:	
Address: <i>536 E. Blue Bird Lane</i>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
Report to: <i>Monmouth Co. 201 14310</i>		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
E-mail:		Phone #: <i>(610) 337-9992</i>		Temp. Upon Receipt: <i>72</i>	
Project Name: <i>Library 38</i>		State & Program:		If Yes, please explain:	
Project #/PO#:		Phone #: <i>(610) 337-9992</i>		Fax #: <i>(610) 337-9939</i>	
Sampler: <i>Brown</i>		# of Bottles Preservative Used		ANALYSIS TYPE	
		MeOH		SAMPLE CONTROL	
		NH ₄ SO ₄		CRACKED	
		HCl		BROKEN	
		HNO ₃		SEAL	
		H ₂ SO ₄		LABORATORY ID NUMBER	
		NaOH			
		NONE			
		TOTAL # OF BOTTLES			
		SAMPLE FIELD FILTERED			
		D YES <input type="checkbox"/> NO <input type="checkbox"/>			
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		SAMPLE MATRIX			
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APPENDIX A

1. TOPOGRAPHIC MAP

2. PLOT MAP

Figure 1 - Topographic Map



Prepared for:

**700 N. Railroad Street
Tamaqua, PA 18252
Borough of Tamaqua
Schuylkill County Pennsylvania**

**700 N. Railroad Street
Tamaqua, PA 18252
Borough of Tamaqua
Schuylkill County Pennsylvania**

Contractor:
**CENTER POINT TANK SERVICES
INC.**
536 E. Benjamin Franklin Highway
Douglassville, PA 19518

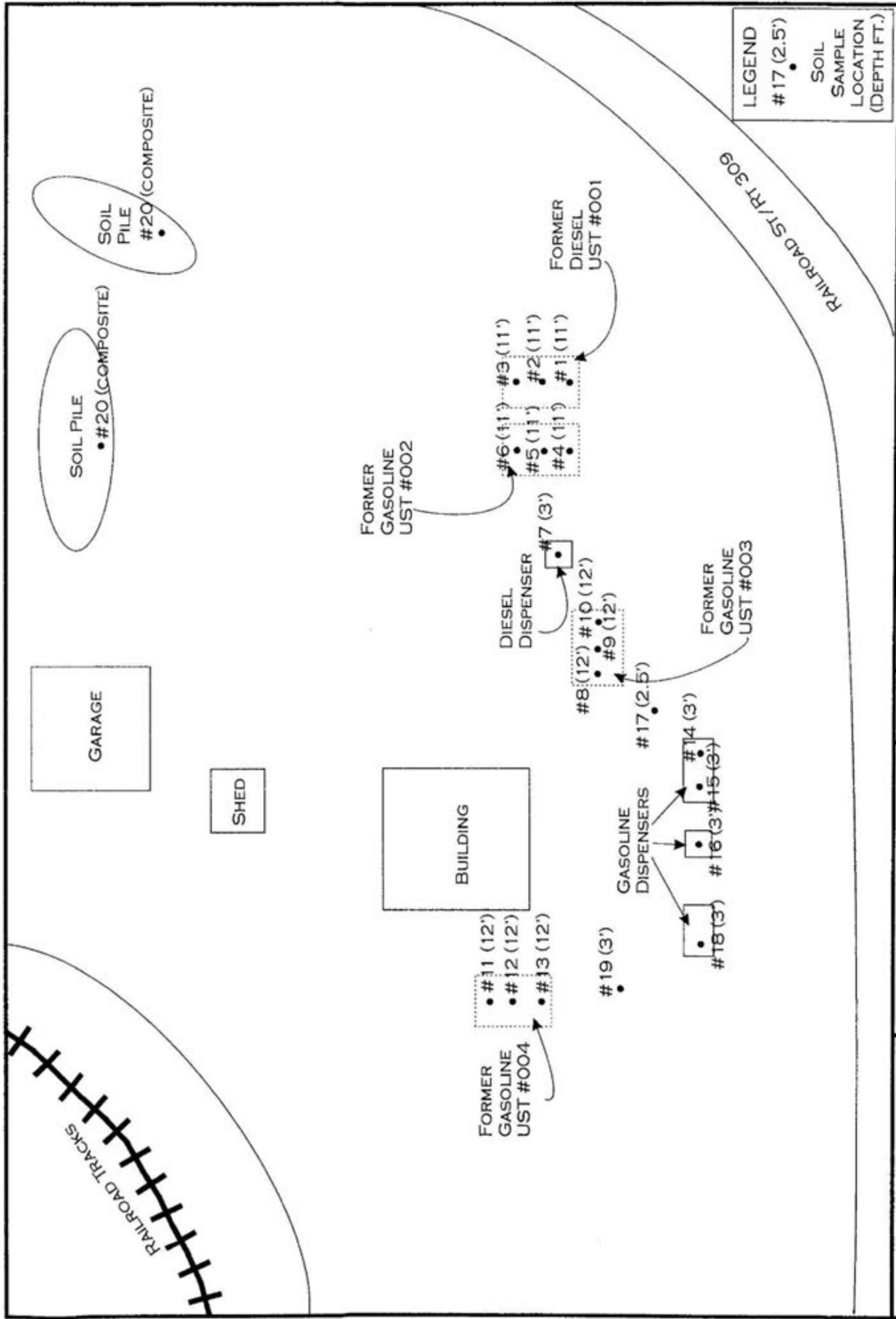
CENTER POINT TANK SERVICES
— INC. —

536 E. Benjamin Franklin Highway
Douglassville, PA 19518

Date: 10/17/2008	Scale: 1:24000	USGS Topographic maps
------------------	----------------	-----------------------

Scale: 1:24000	USGS Topographic maps
----------------	-----------------------

USGS Topographic maps



<p>CENTER POINT TANK SERVICES, INC. 536 E. BENJAMIN FRANKLIN HIGHWAY DOUGLASSVILLE, PENNSYLVANIA 19518 (610) 385-4977</p>	<p>LIBERTY OIL STATION #38 700 N. RAILROAD ST. TAMAQUA, PA 17972</p>	<p>JOB NO. TITLE:</p> <p>DRAWN BY: DLV CHECKED BY: RJH DATE: 11/3/07 SCALE: 1" = ~20' DRAWING NO.: 1.0</p> <p>SITE SAMPLING PLAN</p>
---	---	---

APPENDIX B

COLOR SITE PHOTOGRAPHS



Photo # 001 - UST # 001 (3,000 gallon diesel) & UST # 002 (3,000 gallon gas) prior to removal.



Photo # 002 - Diesel dispenser prior to removal.



Photo # 003 - UST # 003 (6,000 gallon gas) prior to removal.



Photo # 004 - UST # 004 - (5,000 gallon gas) prior to removal.



Photo # 005 - Front dispenser island prior to removal.



Photo # 006 - Excavation to tank top UST # 001(right tank) & 002 (left tank).



Photo # 007 - Opening cut for interior cleaning of UST # 001.



Photo # 008 - Removal of UST # 001 & tank hole sub-surface soil.



Photo # 009 - Endwall of UST # 001.



Photo # 010 - Sidewall of UST # 001 with corrosion holes.



Photo # 011- Endwall of UST # 001.



Photo # 012 - Sidewall of UST # 001 with corrosion.



Photo # 013 - Prepare for the removal of UST # 002 post interior cleaning.



Photo # 014 - Endwall view of UST # 002.

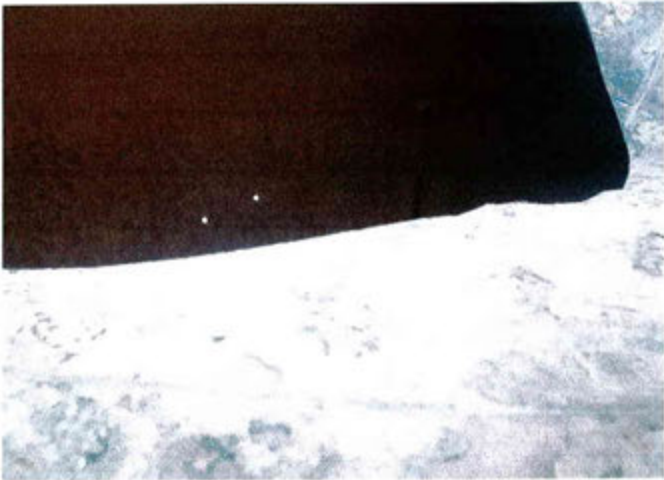


Photo # 015 - Interior view of corrosion holes in UST # 002.



Photo # 016 - Sidewall of UST # 002 with severe corrosion.



Photo # 017 - Sidewall view of UST # 002.



Photo # 018 - Sidewall of UST # 002 with corrosion holes.



Photo # 019 - Backfilling and compaction of tank hole excavation.



Photo # 020 - Excavate for the removal of UST # 003 (6,000 gallon gas).



Photo # 021 - Opening cut into tank shell for interior cleaning of UST # 003.



Photo # 022 - UST # 003 Endcap with no corrosion holes.



photo # 023 - UST # 003 Sidewall with no corrosion holes.



Photo # 024 - UST # 003 Endcap with no corrosion holes.



Photo # 025 - UST # 003 Sidewall with no corrosion holes.



Photo # 026 - Tank hole of UST # 003 with no signs of soil impact.



Photo # 027 - Interior cleaning of UST # 004.



Photo # 028 Removal of UST # 004 with view of endcap with no holes.



Photo # 029 - Sidewall of UST # 004 with no corrosion holes.



Photo # 030 View of UST # 004 sidewall with area of corrosion.

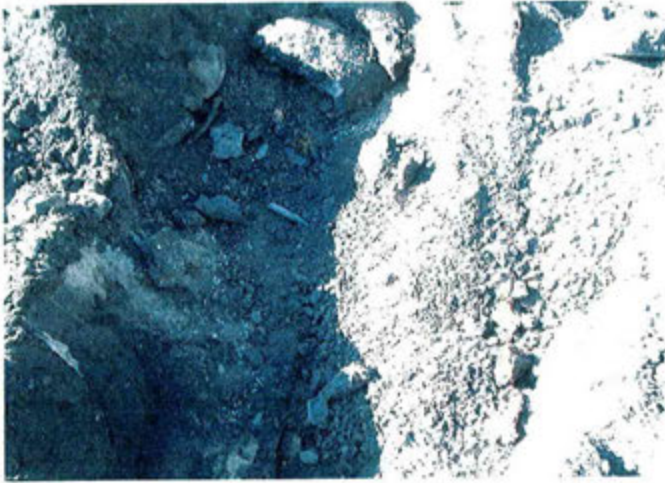


Photo # 031 - Post removal view of UST # 004 tank hole with no signs of impact.



Photo # 032 - Removal of front fuel islands.



Photo # 033 - Piping removed from under fuel islands.



Photo # 034 - Piping removed from under the front fuel islands.



Photo # 035 - Piping trench excavated to remove product piping.



Photo # 036 - Backfill completion of UST # 004 tank hole.



Photo # 037 - Completion of backfilling of front island area.



Photo # 038 - Completion of backfilling of piping trenches.



Photo # 039 - Stockpiling of impacted soil.



Photo # 040 - Stockpiling of impacted soil.

APPENDIX C

DISPENSERS, PIPING AND TANKS DISPOSAL RECEIPTS

Green
Dump

AE334A5

J. W. Zaprazny, Inc.

2401 Summer Valley Road, New Ringgold, PA 17960 - (570) 943-2860

385 Ben Franklin
Dinglough A H
le 1

OPEN DAILY 8:00 - 5:00

SATURDAY 8:00 - 11:30

CLOSED SUNDAYS AND HOLIDAYS /

No 12714

PURCHASED
FROM

Centerpoint Tank

MAN
ON ☒

MAN
OFF ☐

DATE

8/4/08

CARS

GROSS

24680

TARE

22280

NET

2400

AMOUNT

12

258.00

Dispensers

-check turned in -

RAY/Tamagua Job

CUSTOMER

CASH

☐

OK #

☒

11069

PAID BY

WEIGHTED BY

Dump Truck *AE 33435*

J. W. Zaprazny, Inc.

*356 E. Franklin Hwy
Douglasville, GA*

2401 Summer Valley Road, New Ringgold, PA 17960 - (570) 943-2860

OPEN DAILY 8:00 - 5:00

SATURDAY 8:00 - 11:30

CLOSED SUNDAYS AND HOLIDAYS

No 13087

PURCHASED FROM		<i>Center Point Tank</i>		MAN ON <input type="checkbox"/>	MAN OFF <input checked="" type="checkbox"/>	DATE <i>8/13/08</i>
CARS						
GROSS	<i>31420</i>	<i>17p</i>				
TARE	<i>- 100</i>	<i>stone tank</i>				
	<i>31320</i>					
NET	<i>28960</i>	<i>1-3000 G-AL. TANK</i>				
	<i>2360</i>					
AMOUNT	<i>10</i>					
<i>236.00</i>		CUSTOMER				
		CASH <input type="checkbox"/> CK. # <i>11556</i>				
		PAID BY				
WEIGHTED BY						

GM DUMP AE 33435

J. W. Zaprazny, Inc.

2401 Summer Valley Road, New Ringgold, PA 17960 - (570) 943-2860

536 Ben Tinsler Hwy
Dunsmuir, PA

No 13143

OPEN DAILY 8:00 - 5:00
SATURDAY 8:00 - 11:30
CLOSED SUNDAYS AND HOLIDAYS /

PURCHASED FROM		CENTURY 21		MAN ON	<input checked="" type="checkbox"/>	MAN OFF	<input type="checkbox"/>	DATE	8-13-08
CARS									
GROSS	31700								
TARE	29100	1-3,000 GAL TANK							
NET	2600								
AMOUNT	10								
260.00		CUSTOMER							
		CASH <input type="checkbox"/> GK# 11666							
		PAID BY							

WEIGHTED BY

Green Dump

J. W. Zaprazny, Inc.

Lib 38

2401 Summer Valley Road, New Ringgold, PA 17960 - (570) 943-2860

OPEN DAILY 8:00 - 5:00

SATURDAY 8:00 - 11:30

CLOSED SUNDAYS AND HOLIDAYS

Nº 13869

PURCHASED FROM		<i>Center Point Land Sec</i>		MAN ON <input checked="" type="checkbox"/>	MAN OFF <input type="checkbox"/>	DATE <i>8/18/08</i>
CARS		<i>Impney One</i>				
GROSS	<i>34540</i>	<i>Douglasville Ga</i>				
TARE	<i>28900</i>	<i>J Lic HE22435</i>				
NET	<i>5640</i>					
AMOUNT	<i>10.00</i>					
<i>564.00</i>		CUSTOMER				
		CASH <input type="checkbox"/> CK. # <i>12030</i>				
		PAID BY				
WEIGHTED BY						

GMC

AE 331135

J. W. Zaprazny, Inc.

2401 Summer Valley Road, New Ringgold, PA 17960 - (570) 943-2860

346 Mt. Pleasant Hwy
Ringgold, PA

OPEN DAILY 8:00 - 5:00
SATURDAY 8:00 - 11:30
CLOSED SUNDAYS AND HOLIDAYS

No 13209

PURCHASED FROM CARS

GROSS 28900

NET 4700

AMOUNT 10

CUSTOMER

PAID BY CASH ☒ 12206

WEIGHTED BY

APPENDIX D

PADEP CORRESPONDENCE

1. Underground Storage Tank System
Closure Notification Form
2. Notification of Contamination
3. Registration/Permitting Application Form

CENTER POINT TANK SERVICES INC.

Storage Tank Management Services

July 25, 2008

PA Department of Environmental Protection
Storage Tank Division
2 Public Square
Wilkes Barre, PA 18711-0790

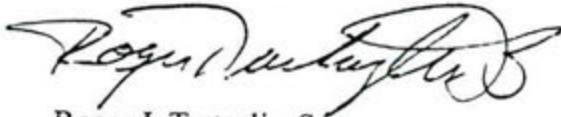
Re: Liberty Oil Co. Station # 38
700 N. Railroad Street
Tamaqua, PA 18252
Borough of Tamaqua
Schuylkill County
PADEP Facility ID # 54-51586

Gentlemen:

Please find enclosed a copy of the Underground Storage Tank System Closure Notification Form for the above referenced facility.

If you have any questions please do not hesitate to contact me.

Sincerely,
Center Point Tank Services, Inc.



Roger J. Tartaglia, Sr.
President

cc: Norwood Klotz, Jr.
PA Department of Labor & Industry



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

DATE RECEIVED: _____

**UNDERGROUND STORAGE TANK SYSTEM
INSTALLATION / CLOSURE NOTIFICATION FORM**

NOTE: The appropriate regional office of the Department must receive notification of installation, change-in-service or permanent closure at least 30 days prior to beginning on-site activities. **Report subsequent delays as soon as known.**

I. Owner of Tank System			
Owner Name Liberty Oil Company			
Street Address 600 E. Main Street			Phone Number (570) 385 - 5459
City Schuylkill Haven	State PA		Zip Code 17972 - 1430
II. Location of Tank System			
Facility Name Liberty Oil Co. Sta # 38		Facility Identification Number 54 - 51586	
Street Address 700 N. Railroad Street	City Tamaqua	State PA	Zip Code 18252 -
Municipality Tamaqua	County Schuylkill		
Contact Person Norwood Klotz		Phone Number (570) 385 - 5459	
III. This notification is for:			
<input type="checkbox"/> New installation <input type="checkbox"/> Complete system replacement <input type="checkbox"/> Partial system replacement <input type="checkbox"/> Change-in-service <input checked="" type="checkbox"/> Complete system closure <input type="checkbox"/> Partial system closure			
IV. Month/Day/Year of Proposed Installation / Closure 08/25/2008			
V. Certified Installer/Company Performing Tank Handling Activities			
Certified Installer Name Roger J. Tartaglia, Sr.		Installer Certification Number 368	
Street Address 536 E. Benjamin Franklin Highway		Phone Number (610) 385 - 4977	
City Douglassville	State PA		Zip Code 19518 -
Certified Company Name Center Point Tank Services, Inc.		Company Certification Number 792	
VI. (For Closure) Contractor/Individual Performing Site Assessment Activities			
Name of Contractor or Individual Center Point Tank Services, Inc.			
Street Address 536 E. Benjamin Franklin Highway		Phone Number (610) 385 - 4977	
City Douglassville	State PA		Zip Code 19518 -
VII. (For Installation) Briefly Describe Underground Storage Tank System(s) to be Installed			
<u>Tank Size</u>	<u>Substance to be Store</u>	<u>Tank Size</u>	<u>Substance to be Stored</u>
VIII. Signature of Tank System Owner 		Title SEC/TICHS	Date 7/24/08

IX. (For Closure) Description of Underground Storage Tank System(s) to be Closed
Complete for each tank undergoing closure. Include additional sheets as necessary.

Tank Registration Number	001	002	003	004
Estimated Total Capacity (Gallons)	3000	3000	6000	5000
Substance(s) Stored Throughout Operating Life of Tank (Check All That Apply)	a. Petroleum & Other Oils Unleaded Gasoline <input type="checkbox"/> Leaded Gasoline <input type="checkbox"/> Aviation Gasoline <input type="checkbox"/> Pure ethanol <input type="checkbox"/> Ethanol/Gas blend _____% <input type="checkbox"/> Kerosene or Fuel Oil No. 1 <input type="checkbox"/> Jet Fuel <input type="checkbox"/> Diesel Fuel or Fuel Oil No. 2 <input checked="" type="checkbox"/> Biodiesel _____% <input type="checkbox"/> Fuel Oil No. 4, 5 or 6 <input type="checkbox"/> New Motor Oil <input type="checkbox"/> Nonpetroleum oil, Specify _____ Used Motor Oil <input type="checkbox"/> Other, Please Specify _____ b. Hazardous Substance Name of Principal CERCLA Substance _____ <u>AND</u> Chemical Abstract Service (CAS) No. _____ c. Unknown <input type="checkbox"/>	Unleaded Gasoline <input checked="" type="checkbox"/> Leaded Gasoline <input type="checkbox"/> Aviation Gasoline <input type="checkbox"/> Pure ethanol <input type="checkbox"/> Ethanol/Gas blend _____% <input type="checkbox"/> Kerosene or Fuel Oil No. 1 <input type="checkbox"/> Jet Fuel <input type="checkbox"/> Diesel Fuel or Fuel Oil No. 2 <input type="checkbox"/> Biodiesel _____% <input type="checkbox"/> Fuel Oil No. 4, 5 or 6 <input type="checkbox"/> New Motor Oil <input type="checkbox"/> Nonpetroleum oil, Specify _____ Used Motor Oil <input type="checkbox"/> Other, Please Specify _____ b. Hazardous Substance Name of Principal CERCLA Substance _____ <u>AND</u> Chemical Abstract Service (CAS) No. _____ c. Unknown <input type="checkbox"/>	Unleaded Gasoline <input checked="" type="checkbox"/> Leaded Gasoline <input type="checkbox"/> Aviation Gasoline <input type="checkbox"/> Pure ethanol <input type="checkbox"/> Ethanol/Gas blend _____% <input type="checkbox"/> Kerosene or Fuel Oil No. 1 <input type="checkbox"/> Jet Fuel <input type="checkbox"/> Diesel Fuel or Fuel Oil No. 2 <input type="checkbox"/> Biodiesel _____% <input type="checkbox"/> Fuel Oil No. 4, 5 or 6 <input type="checkbox"/> New Motor Oil <input type="checkbox"/> Nonpetroleum oil, Specify _____ Used Motor Oil <input type="checkbox"/> Other, Please Specify _____ b. Hazardous Substance Name of Principal CERCLA Substance _____ <u>AND</u> Chemical Abstract Service (CAS) No. _____ c. Unknown <input type="checkbox"/>	Unleaded Gasoline <input checked="" type="checkbox"/> Leaded Gasoline <input type="checkbox"/> Aviation Gasoline <input type="checkbox"/> Pure ethanol <input type="checkbox"/> Ethanol/Gas blend _____% <input type="checkbox"/> Kerosene or Fuel Oil No. 1 <input type="checkbox"/> Jet Fuel <input type="checkbox"/> Diesel Fuel or Fuel Oil No. 2 <input type="checkbox"/> Biodiesel _____% <input type="checkbox"/> Fuel Oil No. 4, 5 or 6 <input type="checkbox"/> New Motor Oil <input type="checkbox"/> Nonpetroleum oil, Specify _____ Used Motor Oil <input type="checkbox"/> Other, Please Specify _____ b. Hazardous Substance Name of Principal CERCLA Substance _____ <u>AND</u> Chemical Abstract Service (CAS) No. _____ c. Unknown <input type="checkbox"/>
Proposed Closure Method (Check Only One)	a. Removal <input checked="" type="checkbox"/> b. Closure-in-Place <input type="checkbox"/> c. Change-In-Service <input type="checkbox"/>	a. Removal <input checked="" type="checkbox"/> b. Closure-in-Place <input type="checkbox"/> c. Change-In-Service <input type="checkbox"/>	a. Removal <input checked="" type="checkbox"/> b. Closure-in-Place <input type="checkbox"/> c. Change-In-Service <input type="checkbox"/>	a. Removal <input checked="" type="checkbox"/> b. Closure-in-Place <input type="checkbox"/> c. Change-In-Service <input type="checkbox"/>
Tank Registration Number				
Estimated Total Capacity (Gallons)				
Substance(s) Stored Throughout Operating Life of Tank (Check All That Apply)	a. Petroleum & Other Oils Unleaded Gasoline <input type="checkbox"/> Leaded Gasoline <input type="checkbox"/> Aviation Gasoline <input type="checkbox"/> Pure ethanol <input type="checkbox"/> Ethanol/Gas blend _____% <input type="checkbox"/> Kerosene or Fuel Oil No. 1 <input type="checkbox"/> Jet Fuel <input type="checkbox"/> Diesel Fuel or Fuel Oil No. 2 <input type="checkbox"/> Biodiesel _____% <input type="checkbox"/> Fuel Oil No. 4, 5 or 6 <input type="checkbox"/> New Motor Oil <input type="checkbox"/> Nonpetroleum oil, Specify _____ Used Motor Oil <input type="checkbox"/> Other, Please Specify _____ b. Hazardous Substance Name of Principal CERCLA Substance _____ <u>AND</u> Chemical Abstract Service (CAS) No. _____ c. Unknown <input type="checkbox"/>	Unleaded Gasoline <input type="checkbox"/> Leaded Gasoline <input type="checkbox"/> Aviation Gasoline <input type="checkbox"/> Pure ethanol <input type="checkbox"/> Ethanol/Gas blend _____% <input type="checkbox"/> Kerosene or Fuel Oil No. 1 <input type="checkbox"/> Jet Fuel <input type="checkbox"/> Diesel Fuel or Fuel Oil No. 2 <input type="checkbox"/> Biodiesel _____% <input type="checkbox"/> Fuel Oil No. 4, 5 or 6 <input type="checkbox"/> New Motor Oil <input type="checkbox"/> Nonpetroleum oil, Specify _____ Used Motor Oil <input type="checkbox"/> Other, Please Specify _____ b. Hazardous Substance Name of Principal CERCLA Substance _____ <u>AND</u> Chemical Abstract Service (CAS) No. _____ c. Unknown <input type="checkbox"/>	Unleaded Gasoline <input type="checkbox"/> Leaded Gasoline <input type="checkbox"/> Aviation Gasoline <input type="checkbox"/> Pure ethanol <input type="checkbox"/> Ethanol/Gas blend _____% <input type="checkbox"/> Kerosene or Fuel Oil No. 1 <input type="checkbox"/> Jet Fuel <input type="checkbox"/> Diesel Fuel or Fuel Oil No. 2 <input type="checkbox"/> Biodiesel _____% <input type="checkbox"/> Fuel Oil No. 4, 5 or 6 <input type="checkbox"/> New Motor Oil <input type="checkbox"/> Nonpetroleum oil, Specify _____ Used Motor Oil <input type="checkbox"/> Other, Please Specify _____ b. Hazardous Substance Name of Principal CERCLA Substance _____ <u>AND</u> Chemical Abstract Service (CAS) No. _____ c. Unknown <input type="checkbox"/>	Unleaded Gasoline <input type="checkbox"/> Leaded Gasoline <input type="checkbox"/> Aviation Gasoline <input type="checkbox"/> Pure ethanol <input type="checkbox"/> Ethanol/Gas blend _____% <input type="checkbox"/> Kerosene or Fuel Oil No. 1 <input type="checkbox"/> Jet Fuel <input type="checkbox"/> Diesel Fuel or Fuel Oil No. 2 <input type="checkbox"/> Biodiesel _____% <input type="checkbox"/> Fuel Oil No. 4, 5 or 6 <input type="checkbox"/> New Motor Oil <input type="checkbox"/> Nonpetroleum oil, Specify _____ Used Motor Oil <input type="checkbox"/> Other, Please Specify _____ b. Hazardous Substance Name of Principal CERCLA Substance _____ <u>AND</u> Chemical Abstract Service (CAS) No. _____ c. Unknown <input type="checkbox"/>
Proposed Closure Method (Check Only One)	a. Removal <input type="checkbox"/> b. Closure-in-Place <input type="checkbox"/> c. Change-In-Service <input type="checkbox"/>	a. Removal <input type="checkbox"/> b. Closure-in-Place <input type="checkbox"/> c. Change-In-Service <input type="checkbox"/>	a. Removal <input type="checkbox"/> b. Closure-in-Place <input type="checkbox"/> c. Change-In-Service <input type="checkbox"/>	a. Removal <input type="checkbox"/> b. Closure-in-Place <input type="checkbox"/> c. Change-In-Service <input type="checkbox"/>

CENTER POINT TANK SERVICES INC.

Storage Tank Management Services

August 20, 2008

PADEP
Northeast Region
Mr. Eric Supey
Division of Storage Tanks
2 Public Square
Wilkes-Barre, PA 18711-0790

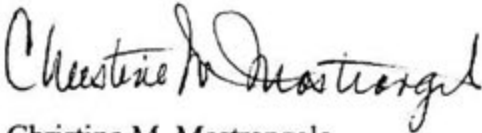
Re: Liberty 38
Facility ID# 54-51586

Dear Mr. Supey:

As per our conversation please find enclosed a Notification of Contamination form for the above listed site.

If you have any questions, please do not hesitate to contact our office.

Sincerely,



Christine M. Mastrangelo

cc: Norwood Klotz – Liberty Oil Company

NOTIFICATION OF REPORTABLE RELEASE (Owners and Operators)

☒ Initial
☐ Follow-Up

NOTIFICATION OF CONTAMINATION (Certified Installers and Inspectors)

NOTIFICATION OF REPORTABLE RELEASE (Owners and Operators)

The Storage Tank Program's Corrective Action Process (CAP) regulations establish release reporting requirements for owners and operators of storage tanks and storage tank facilities.

Subsection 245.305(a) of the regulations requires owners or operators to notify the appropriate regional office of the Department as soon as practicable, but no later than 24 hours, after the confirmation of a reportable release.

Subsection 245.305(d) requires owners or operators to provide an initial written notification to the Department, each municipality in which the reportable release occurred, and each municipality where that release has impacted environmental media or water supplies, buildings, or sewer or other utility lines, within 15 days of the notice required by Subsection 245.305(a).

Subsection 245.305(e) requires owners or operators to provide follow-up written notification to the Department and to each impacted municipality of new impacts to environmental media or water supplies, buildings, or sewer or other utility lines discovered after the initial written notification required by subsection 245.305(d). Written notification is to be made within 15 days of the discovery of the new impact.

This form may be used to comply with Subsection 245.305(d) and (e).

OWNERS AND OPERATORS (O/O)

INDICATE IF THIS IS AN INITIAL OR FOLLOW-UP NOTIFICATION BY MARKING THE APPROPRIATE BOX FOUND IN THE TOP RIGHT-HAND CORNER OF THIS FORM. PLEASE COMPLETE ALL INFORMATION IN SECTIONS I, II, IIIA, IIIB, IV, V, VII and VIII.

NOTIFICATION OF CONTAMINATION (Certified Installers and Inspectors)

The Storage Tank Program's Certification regulations establish standards of performance for certified installers and inspectors of storage tanks and storage tank facilities.

Subsection 245.132(a)(4) of the regulations requires certified installers and inspectors to report to the Department a release of a regulated substance or confirmed or suspected contamination of soil, surface or groundwater from regulated substances observed while performing services as a certified installer or inspector.

This form may be used to comply with Subsection 245.132(a)(4). Subsection 245.132(a)(4) requires submission of the form within 48 hours of observing suspected or confirmed contamination. Where there is a reportable release, the form may be submitted jointly by the owner, operator, certified installer and certified inspector. In this instance, the form must be received by the appropriate regional office within 15 days of the notice required by Subsection 245.305(a).

CERTIFIED INSTALLERS AND INSPECTORS (I/I)
PLEASE COMPLETE ALL INFORMATION IN SECTIONS I, II, IIIA, IIIC, VI, VII and VIII.

INSTRUCTIONS

- I. **FACILITY INFORMATION** - Record the name, I.D. number and physical location (not P.O. Box) of the facility at which a reportable release has been confirmed or at which suspected or confirmed contamination has been observed. Include the name and phone number of a person to contact at the facility.
- II. **OWNER/OPERATOR INFORMATION** - Record the name, business address and phone number of the owner of the facility identified in Section I. Also, record the name and phone number of the operator of the facility.
- III. **REGULATED SUBSTANCE INFORMATION** - Indicate to the best of your knowledge: A) the type of product or products involved; B) the quantity of product or products released; and C) whether the contamination is suspected or confirmed.
- IV. **REPORTABLE RELEASE INFORMATION** - Record the date of confirmation of the reportable release, e.g., "9/18/01"; the date and regional office notified; and the date the local municipality(ies) [provide name of municipality(ies)] was/were sent a copy of this form. Indicate to the best of your knowledge the source/cause of the release, how the release was discovered and the environmental media affected and impacts.
- V. **INTERIM REMEDIAL ACTIONS** - Indicate the interim remedial actions planned, initiated or completed.
- VI. **SUSPECTED/CONFIRMED CONTAMINATION INFORMATION** - Record the date of observation of the suspected or confirmed contamination, e.g., "11/24/01". Indicate to the best of your knowledge the indications of a suspected release or extent of confirmed contamination resulting from the release of the regulated substance.
- VII. **ADDITIONAL INFORMATION** - Provide any additional, relevant, available information concerning the reportable release or suspected or confirmed contamination. Include in this section specific details or problems about the release. For example, if the piping was the source of the release and the cause was corrosion of a metal connector or flexible connector, it is important to include that information here. Use additional 8 1/2" x 11" sheets of paper, if necessary.
- VIII. **CERTIFICATION** - Please print your name, and provide your signature and date of signature. If a certified installer/inspector, provide certification number and company certification number.
- IX. **ATTACHMENT** - If a certified installer/inspector, provide a copy of failed valid tightness test(s), if applicable.

PLEASE SEND COMPLETED ORIGINAL FORM TO:
PA Department of Environmental Protection
Environmental Cleanup Program
Storage Tank Section
(and the appropriate address below,
depending on where the FACILITY is located)

Southeast Region
2 East Main Street
Norristown, PA 19401
PHONE: 484-250-5900
FAX: 484-250-5943

Counties
Bucks, Chester, Delaware,
Montgomery, Philadelphia

Northeast Region
2 Public Square
Wilkes-Barre, PA 18711-0790
PHONE: 570-826-2511
FAX: 570-820-4907

Counties
Carbon, Lackawanna, Lehigh,
Luzerne, Monroe, Northampton,
Pike, Schuylkill, Susquehanna,
Wayne, Wyoming

Southcentral Region
909 Elmerton Avenue
Harrisburg, PA 17110
PHONE: 877-333-1904
FAX: 717-705-4830

Counties
Adams, Bedford, Berks, Blair, Cum-
berland, Dauphin, Franklin, Fulton,
Huntingdon, Juniata, Lancaster,
Lebanon, Mifflin, Perry, York

Northcentral Region
208 W. Third Street, Suite 101
Williamsport, PA 17701
PHONE: 570-321-6525/327-3696
FAX: 570-327-3420

Counties
Bradford, Cameron, Centre,
Clinton, Clearfield, Columbia,
Lycoming, Montour,
Northumberland, Potter, Snyder,
Sullivan, Tioga, Union

Southwest Region
400 Waterfront Drive
Pittsburgh, PA 15222
PHONE: 412-442-4091/4000
FAX: 412-442-4328

Counties
Allegheny, Armstrong,
Beaver, Cambria, Fayette,
Greene, Indiana, Somerset,
Washington, Westmoreland

Northwest Region
230 Chestnut Street
Meadville, PA 16335-3481
PHONE: 814-332-6945
800-373-3398
FAX: 814-332-6121

Counties
Butler, Clarion, Crawford, Elk,
Erie, Forest, Jefferson,
Lawrence, McKean, Mercer,
Venango, Warren

I. FACILITY INFORMATION (Both O/O and I/I)			II. OWNER/OPERATOR INFORMATION (Both O/O and I/I)		
Facility Name <u>Liberty Oil Station 38</u>	Facility I.D. Number <u>54-51586</u>		Owner Name <u>Liberty Oil Co. Inc.</u>	Address <u>600 E. Main Street</u>	
Street Address (P.O. Box not acceptable) <u>700 N. Railroad Street</u>			City <u>Schuylkill Haven</u>	State <u>PA</u>	Zip Code <u>17972-1430</u>
City <u>Tamaqua</u>	State <u>PA</u>	Zip Code <u>18252</u>	Phone Number <u>(570) 385- 5459</u>	Operator Name <u>Mr. Norwood Klotz</u>	
County <u>Schuylkill</u>	Municipality <u>Tamaqua</u>	Contact Person <u>Mr. Norwood Klotz</u>	Phone Number <u>(570) 385 - 5459</u>		
III. REGULATED SUBSTANCE INFORMATION					
A. Type of Product(s) Involved (Mark All That Apply <input checked="" type="checkbox"/>): <u>Both O/O and I/I</u>		B. Quantity (Gallons) of Product(s) Released: <u>O/O Only</u>		C. Contamination Suspected [S] or Confirmed [C] (Mark All That Apply <input checked="" type="checkbox"/>): <u>I/I Only</u>	
Leaded Gasoline <input type="checkbox"/>		<u> </u>		<input type="checkbox"/> [S] <input type="checkbox"/> [C]	
Unleaded Gasoline <input checked="" type="checkbox"/>		<u> u n k n o w n </u>		<input checked="" type="checkbox"/> [S] <input type="checkbox"/> [C]	
Aviation Gasoline <input type="checkbox"/>		<u> </u>		<input type="checkbox"/> [S] <input type="checkbox"/> [C]	
Kerosene <input type="checkbox"/>		<u> </u>		<input type="checkbox"/> [S] <input type="checkbox"/> [C]	
Jet Fuel <input type="checkbox"/>		<u> </u>		<input type="checkbox"/> [S] <input type="checkbox"/> [C]	
Diesel Fuel <input checked="" type="checkbox"/>		<u> u n k n o w n </u>		<input checked="" type="checkbox"/> [S] <input type="checkbox"/> [C]	
New Motor Oil <input type="checkbox"/>		<u> </u>		<input type="checkbox"/> [S] <input type="checkbox"/> [C]	
Used Motor Oil <input type="checkbox"/>		<u> </u>		<input type="checkbox"/> [S] <input type="checkbox"/> [C]	
Fuel Oil No. 1 <input type="checkbox"/>		<u> </u>		<input type="checkbox"/> [S] <input type="checkbox"/> [C]	
Fuel Oil No. 2 <input type="checkbox"/>		<u> </u>		<input type="checkbox"/> [S] <input type="checkbox"/> [C]	
Fuel Oil No. 4 <input type="checkbox"/>		<u> </u>		<input type="checkbox"/> [S] <input type="checkbox"/> [C]	
Fuel Oil No. 5 <input type="checkbox"/>		<u> </u>		<input type="checkbox"/> [S] <input type="checkbox"/> [C]	
Fuel Oil No. 6 <input type="checkbox"/>		<u> </u>		<input type="checkbox"/> [S] <input type="checkbox"/> [C]	
Other (Specify) <u> </u> <input type="checkbox"/>		<u> </u>		<input type="checkbox"/> [S] <input type="checkbox"/> [C]	
Unknown <input type="checkbox"/>		<u> </u>		<input type="checkbox"/> [S] <input type="checkbox"/> [C]	
IV. REPORTABLE RELEASE INFORMATION (O/O Only)					
Date of verbal notification: <u>8 / 15 / 2008</u> <u>m d y</u>		Date Owner/Operator Sent Copy of this Written Notification to Local Municipality(ies) and Name of Municipality(ies) Notified: Date: <u>8 / 15 / 2008</u> Municipality <u>Tamaqua</u> <u>m d y</u> Date: <u> </u> / <u> </u> / <u> </u> Municipality <u> </u> <u>m d y</u>			
Date Owner/Operator Verbally Notified Appropriate Regional Office: Date: <u>8 / 15 / 2008</u> Office <u>Northeast Region – Eric Supey</u> <u>m d y</u>					
Source/Cause (Mark All That Apply <input checked="" type="checkbox"/>):		How Discovered (Mark All That Apply <input checked="" type="checkbox"/>):		Environmental Media Affected and Impacts (Mark All That Apply <input checked="" type="checkbox"/>):	
Tank (DEP Assigned Nos) <input checked="" type="checkbox"/>		During Closure <input checked="" type="checkbox"/>		Soil <input checked="" type="checkbox"/>	
Piping System (Aboveground Regulated) <input type="checkbox"/>		Lining Installation <input type="checkbox"/>		Sediment <input type="checkbox"/>	
Piping System (Underground Regulated) <input type="checkbox"/>		Routine Leak Detection <input type="checkbox"/>		Surface Water <input type="checkbox"/>	
Piping System (Non-Regulated) <input type="checkbox"/>		Third Party Inspection <input type="checkbox"/>		Ground Water <input type="checkbox"/>	
Dispenser/Dispensing Equipment <input type="checkbox"/>		Tightness Testing Activities <input type="checkbox"/>		Bedrock <input type="checkbox"/>	
Spill Catchment Basin <input type="checkbox"/>		Visible Product or Odor Reports <input type="checkbox"/>		Water Supplies <input type="checkbox"/>	
Accident/Act of God <input type="checkbox"/>		Water in Tank <input type="checkbox"/>		Vapors/Product in Buildings <input type="checkbox"/>	
Submersible Turbine Pump Head/Fittings <input type="checkbox"/>		Construction <input type="checkbox"/>		Vapors/Product in Sewer/Utility Lines <input type="checkbox"/>	
Containment/Sump Failure <input type="checkbox"/>		Upgrade/Repair <input type="checkbox"/>		Ecological Receptors <input type="checkbox"/>	
Faulty Installation <input type="checkbox"/>		Supply Well Sample Results <input type="checkbox"/>			
Corrosion <input type="checkbox"/>		Monitoring Well Sample Results <input type="checkbox"/>			
Physical/Mechanical Failure <input type="checkbox"/>		Property Transfer <input type="checkbox"/>			
Spill During Delivery <input type="checkbox"/>		Other (Specify) <u> </u> <input type="checkbox"/>			
Overfill at Delivery <input type="checkbox"/>		Unknown <input type="checkbox"/>			
Vehicle Gas Tank Overfill <input type="checkbox"/>					
Product Delivery Hose Rupture <input type="checkbox"/>					
Other (Specify) <u> </u> <input type="checkbox"/>					
Unknown <input type="checkbox"/>					

V. INTERIM REMEDIAL ACTIONS (O/O Only)

(Mark All That Apply ☒):

	Planned	Initiated	Completed	Not Applicable
Regulated Substance Removed from Storage Tanks	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fire, Explosion and Safety Hazards Mitigated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Contaminated Soil Excavated	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Free Product Recovered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water Supplies Identified and Sampled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporary Water Supplies Provided	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

VI. SUSPECTED / CONFIRMED CONTAMINATION INFORMATION (I/I Only)

Date of Observation of Suspected/Confirmed Contamination: 8 / 15 / 2008
m d yIndication of Suspected Contamination (Mark All That Apply ☒):

- Unusual Level of Vapors ☒
- Erratic Behavior of Product Dispensing Equipment ☐
- Release Detection Results Indicate a Release ☐
- Discovery of Holes in the Storage Tank ☒
- Other (Specify) ☐

Extent of Confirmed Contamination (Mark All That Apply ☒):

- Product Stained or Product Saturated Soil or Backfill ☐
- Ponded Product ☐
- Free Product or Sheen on Ponded Water ☐
- Free Product or Sheen on the Ground Water Surface ☐
- Free Product or Sheen on Surface Water ☐
- Other (Specify) ☐

VII. ADDITIONAL INFORMATION (Both O/O and I/I)

Provide any additional, relevant, available information concerning the reportable release or suspected or confirmed contamination. Include specific details or problems about the release. For example, if the piping was the source of the release and the cause was corrosion of a metal connector or flexible connector, it is important to include that information here. Provide DEP assigned and owner/operator assigned tank number(s), where applicable. Use additional 8½" x 11" sheets of paper, if necessary.

Strong gasoline odors were encountered during the removal of the tanks at the above site. The odors were especially strong while excavating the #001 Diesel and #003 gasoline tanks. The 3000-gallon diesel tank (#001) had one hole and the 3000-gallon gasoline tank (#002) had multiple holes but the soil did *not appear* to be stained with product. The soil removed from the tank farm was stockpiled on plastic and covered with the same. Samples were taken under the excavated area and will be submitted to Test America Laboratories for analysis.

2550-FM-BWM0082 Rev. 8/2007

FACILITY I.D. NUMBER 54-51586

VIII. CERTIFICATION (Both O/O and I/I)

I, Norwood Klotz, hereby certify, under penalty of law as provided in 18 Pa.
(Print Name)

C.S.A. §4904 (relating to unsworn falsification to authorities) that I am the owner or operator of the above referenced storage tank facility and that the information provided by me in this notification is true, accurate and complete to the best of my knowledge and belief.

Norwood Klotz SEC/TREAS
Signature of Owner or Operator

8/15/08

Date

I, ~~Rever J. Ditzels, Sr.~~ George T. Wilkins, hereby certify, under penalty of law as provided in 18 Pa.
(Print Name)

C.S.A. §4904 (relating to unsworn falsification to authorities) that I am the certified installer who performed tank handling activities at the above referenced storage tank facility and that the information provided by me in this notification is true, accurate and complete to the best of my knowledge and belief.

Signature of Certified Installer

8 / 15 / 2008

Date

~~355~~ 93
Installer Certification Number

702
Company Certification Number

I, _____, hereby certify, under penalty of law as provided in 18 Pa.
(Print Name)

C.S.A. §4904 (relating to unsworn falsification to authorities) that I am the certified inspector who performed inspection activities at the above referenced storage tank facility and that the information provided by me in this notification is true, accurate and complete to the best of my knowledge and belief.

George Wilkins
Signature of Certified Inspector ~~Installer~~

 / /
Date

Inspector Certification Number

Company Certification Number

CENTER POINT TANK SERVICES INC.

Storage Tank Management Services

September 30, 2008

PADEP
Division of Storage Tanks
P. O. Box 8762
Harrisburg, PA 17105-8762

RE: Facility ID #54-51586
Liberty Oil #38

To Whom It May Concern:

Please find enclosed a Registration Form for the removal of tank #001, 002, 003, and 004. The removals took place from 8/12/08 thru 8/18/08 at the above listed facility.

If you have any questions, please do not hesitate to contact our office.

Thank you,


Christine M. Mastrangelo



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

**STORAGE TANKS REGISTRATION / PERMITTING
APPLICATION FORM**

Before completing this form, read the step-by-step instructions provided in this application package.

54-51586 Facility ID # Liberty Oil #38 Facility Name	DEP USE ONLY
	Client ID#
	Site ID#
	Account #
	Auth ID#
	APS ID#
	Master Auth ID#

I. PURPOSE OF SUBMITTAL

INITIAL (Applies to First-Time Facility Registration)

- | | |
|---|--|
| <input type="checkbox"/> Register Tanks(s) to be Used | <input type="checkbox"/> Register Tank(s) to be Temporarily Out of Use |
| <input type="checkbox"/> Register Tank(s) to be Removed | <input type="checkbox"/> Register Tank(s) to be Closed in Place |

AMENDED (Applies to Currently Registered Tank(s) or Existing Facility)

- | | |
|--|---|
| <input type="checkbox"/> Changed Owner Information | <input type="checkbox"/> Changed Contact Information |
| <input type="checkbox"/> Changed Facility Information | <input type="checkbox"/> Changed Facility Operation Information |
| <input type="checkbox"/> Changed to Currently In Use Tank(s) | <input type="checkbox"/> Added Tank(s) to Existing Facility |
| <input type="checkbox"/> Changed to Temporarily Out of Use Tank(s) | <input checked="" type="checkbox"/> Changed to Permanently Closed Tank(s)/Removed |
| <input type="checkbox"/> Changed Product | <input type="checkbox"/> Changed to Exempt Tank(s) |

CHANGE OF OWNERSHIP

- ☐ Tanks Changed Ownership and Remain at Same Facility

II. CURRENT OR NEW TANK OWNER / CLIENT INFORMATION

DEP Client ID# 120341	Client Type/Code pacor	Fee Kind (check one if applicable) <input type="checkbox"/> Volunteer Fire Co/EMS Org <input type="checkbox"/> State Govt <input type="checkbox"/> Fed Govt		
Organization Name or Registered Fictitious Name Liberty Oil Co.		Employer ID# (EIN)	Dun & Bradstreet ID#	
Individual Last Name	First Name	MI	Suffix	SSN
Additional Individual Last Name	First Name	MI	Suffix	SSN
Mailing Address Line 1 600 E. Main St.		Mailing Address Line 2		
Address Last Line - City Schuylkill Haven	State PA	ZIP+4 17972	Country USA	
Client Contact Last Name Klotz	First Name Norwood	MI	Suffix	
Client Contact Title Owner		Phone 570-385-5459	Ext	
E-mail Address			FAX	

III. SITE INFORMATION

DEP Site ID#	Site Name		
588909	Liberty Oil Station #38		
EPA ID#	Estimated Number of Employees to be Present at Site		
Description of Site			
County Name	Municipality	City	Boro Twp State
Schuylkill	Borough of Tamaqua	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>
County Name	Municipality	City	Boro Twp State
		<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Site Location Line 1	Site Location Line 2		
700 N. Railroad Street			
Site Location Last Line - City	State	ZIP+4	
Tamaqua	PA	18252	
Detailed Written Directions to Site			

Site Contact Last Name	First Name	MI	Suffix
Klotz	Norwood		
Site Contact Title	Site Contact Firm		
Owner			
Mailing Address Line 1	Mailing Address Line 2		
600 E. Main Street			
Address Last Line - City	State	ZIP+4	
Schuylkill Haven	PA	17972	
Phone	Ext	FAX	E-mail Address
570-385-5459			
NAICS Codes (Two- & Three-Digit Codes - List All That Apply)			6-Digit Code (Optional)
Site to Client Relationship			

IV. FACILITY INFORMATION

DEP Storage Tank Facility ID# 54-51586	Facility Name Liberty Oil Station 38	Facility Kind MFULS				
Facility Location Line 1 (if different than Site Location)		Facility Location Line 2				
Facility Location Last Line - City	State	ZIP+4				
Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
Horizontal Accuracy Measure	Feet	--or--	Meters			
Horizontal Reference Datum Code	<input type="checkbox"/> North American Datum of 1927 <input type="checkbox"/> North American Datum of 1983 <input type="checkbox"/> World Geodetic System of 1984					
Horizontal Collection Method Code						
Reference Point Code						
Altitude	Feet	--or--	Meters			
Altitude Datum Name	<input type="checkbox"/> The National Geodetic Vertical Datum of 1929 <input type="checkbox"/> The North American Vertical Datum of 1988 (NAVD88)					
Altitude (Vertical) Location Datum Collection Method Code						
Geometric Type Code						
Data Collection Date						
Source Map Scale Number	inch(es)	=	Feet			
--or--	Centimeter(s)	=	Meters			
Flammable & Combustible Liquid Permit # (if applicable)						
State or Municipality that Issued the Permit						

FACILITY OPERATOR INFORMATION

<input checked="" type="checkbox"/> Same as Owner Identified in Section II.		<input type="checkbox"/> Different than Owner Identified in Section II; identified below.	
DEP Client ID#	Client Type / Code		
Organization Name or Registered Fictitious Name	Employer ID# (EIN)	Dun & Bradstreet ID#	
Individual Last Name	First Name	MI	Suffix
SSN			
Additional Individual Last Name	First Name	MI	Suffix
SSN			
Mailing Address Line 1	Mailing Address Line 2		
Address Last Line - City	State	ZIP+4	Country
Client Contact Last Name	First Name	MI	Suffix
Client Contact Title	Phone	Ext	
E-mail Address	FAX		

V. CHANGE OF OWNERSHIP INFORMATION

- ☐ All Tanks Changed Ownership at the Facility
- ☐ Some Tanks Changed Ownership at the Facility (List all applicable tank numbers in Section VI.)

OWNERSHIP CHANGE TO - Client information is noted in Section II. Current or New Tank ☐ Yes ☐ No
Owner/Client Information

OWNERSHIP CHANGE FROM (previous owner information)

Name

Employer ID# (EIN) or
SSN

Mailing Address Line 1

Mailing Address Line 2

Address Last Line - City

State

ZIP+4

Previous Facility ID#

Date of Sale/Transfer

SIGNATURE & CERTIFICATION OF PREVIOUS OWNER

Previous owner's signature is not available. As required, the "new" owner has attached a deed of transfer or other proof of ownership to this application. ☐ Yes ☐ No ☐ N/A

I have reviewed this form for submission to the Department. I certify under penalty of law as provided in 18 PA. C.S.A. §4903 (relating to false swearing) and 18 PA. C.S.A. §4904 (relating to unsworn falsification to authorities), that I have the authority to sign this Section for the transfer of permit or registration for the storage tanks listed herein. Further, I certify that all information provided in Section V is true, accurate and complete to the best of my knowledge and belief.

Type or Print Previous Owner Name

Previous Owner Signature

Title

Date

VI. STORAGE DESCRIPTION

Type or print legibly each regulated storage tank at this facility under your ownership.

Status Codes: C-Currently in Use
M-Manufactured

T-Temporarily Out of Use F-Field Constructed

E-Exempt

R-Removed

P-Closed In Place

A: ABOVEGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code
A										
A										
A										
A										
A										
A										
A										
A										
A										
A										

B. UNDERGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

B. UNDERGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

[illegible]

Facility ID# 54-51586

Facility Name : Liberty Oil Station 38

VII. ABOVEGROUND & UNDERGROUND NEW TANK INSTALLATION INFORMATION

The DEP Certified Installer should complete this section. New tanks listed in Section VI must also be listed in this Section. Write the Tank Number(s) and place an ☒ in the appropriate box for each component that was installed.

Tank Construction & Corrosion Protection (1)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Unprotected Steel (Single Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Cathodically Protected Steel (Galvanic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Cathodically Protected Steel (Impressed Current)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Unprotected Steel (Double Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Fiberglass (Single Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. Fiberglass (Double Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. Steel W/Plastic or Fiberglass Jacket or Double Wall Act 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. Steel With FRP Coating (Act 100 or Equivalent)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Steel With Lined Interior	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J. Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
O. Cathodically Protected Double Wall Steel (Galvanic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P. Cathodically Protected Steel With Liner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q. Double Bottom (AST's Only)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R. Molded Plastic Form (AST's Only)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S. Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
T. Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility ID# 54-51586 Facility Name: Liberty Oil Station 38

Underground Piping Construction & Corrosion Protection (2)		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Bare Steel		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Cathodically Protected Metallic		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Copper		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Single Wall Fiberglass		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Single Wall Flexible (Non-Metallic)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. None		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Double Wall Metallic Primary		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J. Double Wall Rigid (FRP) Primary		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K. Double Wall Flexible Primary		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L. Trench Liner		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aboveground Piping Construction & Corrosion Protection (3)		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Carbon Steel		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Cathodically Protected Metallic		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Copper		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Single Wall Fiberglass		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Single Wall Flexible (Non-Metallic)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. PVC		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. None		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Double Wall - Metallic Primary		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J. Double Wall - Rigid (FRP) Primary		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K. Double Wall - Flexible Primary		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L. Stainless Steel		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spill Prevention (6) UST Only		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Y. Installed and Liquid Tight		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N. None		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Fill In Less Than 25 Gallons (Exempt)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

[illegible]

	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Tank-top Containment Sumps Present (21)																			
USTs Only																			
N. None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S. At some penetrations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A. At all penetrations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Under-dispenser Containment Present (22)																			
USTs Only																			
N. None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S. At some dispensers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A. Under all dispensers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Line Leak Detector Shuts Off Pump (23)																			
USTs Only																			
N. No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y. Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility ID# 54-51586

Facility Name: Liberty Oil Station 38

VIII. ABOVEGROUND & UNDERGROUND TANK INFORMATION FOR PERMANENT CLOSURE

Write the Tank Number(s) and place an ☒ in the appropriate box for each tank that was removed or closed in place.

Items 2 & 3 below apply to large ASTs and all USTs	Tank # #001	Tank # #002	Tank # #003	Tank # #004	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
1. Contamination suspected or observed and notification of contamination form was submitted to the appropriate DEP regional office.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Closure document submitted to the appropriate DEP regional office.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Closure document kept on file by owner.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2570-PM-BWM0514 Rev. 1/2008
Form

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. This registration is conditioned upon compliance with provisions of the Storage Tank and Spill Prevention Act of 1989, all applicable regulations, and with the requirements for obtaining and maintaining a permit required under this Act. I certify my responsibility for assuring the following permit requirements:

- Storage tank systems are in compliance with applicable administrative, technical and operational requirements as specified in Subchapter E for underground tanks or Subchapter F or G for aboveground tanks.
- Tank handling and inspection activities are performed by an individual possessing DEP certification in the appropriate category as required in Subchapters A and B.
- Underground storage tanks meet the applicable financial responsibility requirements of Subchapter H (relating to financial responsibility requirements).
- A Spill Prevention Response (SPR) Plan must be submitted to the appropriate DEP regional office for facilities that have aboveground storage tanks where the total capacity of all aboveground tanks is greater than 21,000 gallons.
- Other state and local permits required for operation of the tank system have been attained.

My signature represents to the Department that I own the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this registration is made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name Mr. Norwood Klotz


Owner Signature

Owner LIBERTY OIL CO, INC 9/26/08
Title Date

SECITRUEAS

Information & Invoices should be sent to:

- ☒ Tank Owner Contact
☐ Site Contact
☐ Facility Operator
☐ Other Responsible Party Identified Below

Organization Name or Registered Fictitious Name		Employer ID# (EIN)		Dun & Bradstreet ID#
Individual Last Name	First Name	MI	Suffix	SSN
Additional Individual Last Name	First Name	MI	Suffix	SSN
Mailing Address Line 1		Mailing Address Line 2		
Address Last Line - City		State	ZIP+4	Country
Client to Site (Facility) Relationship				

X. INSTALLER / REMOVER CERTIFICATION

This section must be completed by the certified tank handler(s) who is responsible for the installation or removal from service of the aboveground and underground storage tank systems listed in Section VI. Tank modification activity must be submitted on a "Tank Modification Report" form.

SIGNATURE & CERTIFICATION OF INSTALLER(S) / REMOVER(S)

As the certified tank handler responsible for the tank handling activities in the category or categories listed, I certify that all tank handling activities were conducted in compliance with the design, installation and operation standards of the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I also certify, under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided therein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Installer/Remover Signature	Date
001	George T. Wilkins		93	UMR	792	<i>George Wilkins</i>	09/26/08
002	George T. Wilkins		93	UMR	792	<i>George Wilkins</i>	09/26/08
003	George T. Wilkins		93	UMR	792	<i>George Wilkins</i>	09/26/08
004	George T. Wilkins		93	UMR	792	<i>George Wilkins</i>	09/26/08

XI. INSPECTOR CERTIFICATION

This section must be completed by the DEP Certified Tank Inspector(s) who is responsible for verifying the installation standards for field constructed tanks and aboveground tanks greater than 21,000 gallons listed in Section VI. (Type or Print legibly) A DEP Certified Inspector may also be responsible for inspecting existing ASTs which are entering regulated service for the first time with no tank handling activities.

SIGNATURE & CERTIFICATION OF INSPECTOR(S)

As the certified tank inspector responsible for verifying tank handling activities and construction standards, I certify that the tank(s) listed below are constructed to appropriate industry standards and, if applicable, to manufacturer's specifications; that the tank(s) have been tested as required by industry standards; and that the tank(s) meet or exceed applicable design and operating standards; and are in compliance with the requirements of the Storage Tank and Spill Prevention Act of 1989, and all applicable regulations. I also certify under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided herein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Inspector Signature	Date

XII. SITE SPECIFIC INSTALLATION PERMIT NUMBER

If a site-specific permit was required for a new tank installation, write the tank number(s) and permit number(s) in the appropriate box.

Site-Specific Installation Permit	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#

APPENDIX E

TERMS AND CONDITIONS

LIMITATIONS/STATEMENT OF TERMS AND CONDITIONS

Center Point Tank Services, Inc. exercised reasonable efforts to accomplish the required tasks of this investigation, employing current professional standards. We make no warranties, expressed or implied, as to the merchantability or fitness of this property for a particular purpose. Center Point Tank Services, Inc. is not responsible for independent conclusions, opinions or recommendations made by others based on the information contained herein.

It should be noted that all subsurface investigations are inherently limited in the sense that conclusions are drawn and recommendations developed from point sources such as boring/sampling points. These point sources depict the subsurface conditions at specific times and locations specified in the report. Subsurface conditions may vary spatially over a short distance. Further, the passage of time can result in a change in subsurface conditions.

It should be noted that conditions are based solely on the scope of services and tasks described therein.

APPENDIX C

Monitoring Well and Soil Boring Logs

Table 1.0
 Geoprobe Soil Boring Logs—Liberty Oil Company #38
 700 North Railroad Street, Tamaqua, PA 18252
 Soil Sampling Program Conducted on 1/13/09 & 1/27/09

Boring ID	Depth (Ft)	Description	PID (ppm)	Analytical Interval (ft)
VW-1		LOCATED ~1' west of front of office building.		
	0-4	Brown gravel, silt and clay (fill). Moist. No odor or stain.	<0.5	
		Vapor Well Installed has 4' total depth. 2' screen. 2' riser.	VW-1 & VW-1D	
GP-1		LOCATED ~2' north of north end of dispenser area.		
	0-4	Dark grey gravel, sand and silt. Moist. Strong odor and stain.	>1999	3-4
	4-8	Brown silt and clay. Moist. Moderate odor and stain.	116	
	8-9	Brown silt and clay. Moist. Moderate odor and stain.	396	
	9 (REF)	Refusal on hard brown clay.		
GP-2		LOCATED ~8' north of geoprobe sample location GP-1.		
	0-4	Dark grey gravel, sand and silt. Moist. Very strong odor and stain.	>1999	
	4-8	Brown sand, silt and clay. Moist. Strong odor and stain.	>1999	
	8-11	Red-brown silt and clay, some gravel. Strong odor and stain.	>1999	
	11-12.5	Red-brown silt and clay. Moist. Moderate odor and stain.	292	
	12.5 (REF)	Refusal on hard red-brown clay. Water in hole.		
GP-3		LOCATED ~15' north of geoprobe sample location GP-2.		
	0-0.5	Blacktop covering.		
	0.5-4	Dark grey gravel, sand and silt. Moist. No odor or stain.	3.3	
	4-8	Brown silt and clay. Moist. Slight odor. No stain.	7.0	
	8-12	Brown silt and clay. Moist. Strong odor. No stain.	>1999	
	12-14.5	Red-brown silt and clay. Moist. Very strong odor. No stain.	>1999	14-14.5
GP-4		LOCATED ~15' north of geoprobe sample location GP-3.		
	0-0.5	Blacktop covering.		
	0.5-4	Brown sand, silt and clay. Moist. No odor or stain.	1.2	
	4-5	Brown sand, silt and clay. Moist. No odor or stain.	38.5	
	5 (REF)	Refusal on concrete.		

Table 1.0
Geoprobe Soil Boring Logs—Liberty Oil Company #38
700 North Railroad Street, Tamaqua, PA 18252
Soil Sampling Program Conducted on 1/13/09 & 1/27/09

Boring ID	Depth (Ft)	Description	PID (ppm)	Analytical Interval (ft)
GP-5		LOCATED ~3' east of geoprobe sample location GP-2.		
	0-0.5	Blacktop covering.		
	0.5-4	Red-brown silt and clay. Moist. No odor or stain.	1.2	
	4-8	Red-brown silt and clay. Moist. Slight odor, no stain.	26.4	
	8-12	Red-brown silt and clay. Moist. No odor or stain.	78.2	
	12-14	Red-brown silt and clay. Moist. Strong odor, no stain.	>1999	13-14
	14 (REF)	Refusal on hard red-brown clay.		
GP-6		LOCATED ~8' east of geoprobe sample location GP-1.		
	0-0.5	Blacktop covering.		
	0.5-4	Red-brown sand, silt and clay. Moist. Strong odor, no stain.	>1999	
	4-8	Red-brown sand, silt and clay. Moist. Strong odor, no stain.	>1999	
	8-12	Red-brown sand, silt and clay. Moist. Strong odor, no stain.	>1999	
	12-15.5	Red-brown silt and clay. Moist. Slight odor, no stain.	68.4	15-15.5
	15.5 (REF)	Refusal on tan rock.		
GP-7		LOCATED ~10' south of geoprobe sample location GP-6.		
	0-0.5	Blacktop covering.		
	0.5-4	Brown silt and clay. Moist. Strong odor, no stain.	>1999	
	4 (REF)	Refusal on concrete.		
GP-8		LOCATED ~2' west of geoprobe sample location GP-7.		
	0-0.5	Blacktop covering.		
	0.5-4	Red-brown silt and clay. Moist. Strong odor and stain.	>1999	
	4-5	Red-brown silt and clay. Moist. Strong odor and stain.	>1999	
	5 (REF)	Refusal on concrete.		
GP-9		LOCATED ~3' west of geoprobe sample location GP-8.		
	0-0.5	Blacktop covering.		
	0.5-4	Dark grey sand and silt. Moist. Strong odor and stain.	>1999	
	4-8	Red-brown sand, silt and clay. Moist. Strong odor and stain.	>1999	
	8-9	Red-brown sand, silt and clay. Moist. Strong odor and stain.	1683	8-9
	9 (REF)	Refusal on red-brown rock.		

Table 1.0
Geoprobe Soil Boring Logs—Liberty Oil Company #38
700 North Railroad Street, Tamaqua, PA 18252
Soil Sampling Program Conducted on 1/13/09 & 1/27/09

Boring ID	Depth (Ft)	Description	PID (ppm)	Analytical Interval (ft)
GP-10		LOCATED ~10' south of geoprobe sample location GP-9.		
	0-0.5	Blacktop covering.		
	0.5-4	Dark grey sand and silt. Moist. Strong odor and stain.	>1999	
	4 (REF)	Refusal on concrete.		
GP-11		LOCATED ~1' west of geoprobe sample location GP-10.		
	0-4	Dark grey gravel and silt. Strong odor and stain.	>1999	
	4-8	Red-brown silt and clay. Moist. Strong odor and stain.	1820	
	8-12	Red-brown gravel, sand and silt. Moist. Slight odor and stain.	122.9	
	12-12.5	Red-brown gravel, sand and silt. Moist. Slight odor and stain.	385.8	12-12.5
	12.5 (REF)	Refusal on red rock.		
GP-12		LOCATED ~10' south of geoprobe sample location GP-11.		
	0-4	Red-brown gravel, sand and silt. Moist.	>1999	
	4 (REF)	Refusal on red rock.		
GP-13		LOCATED ~2' south of southern end of dispenser area.		
	0-0.5	Blacktop covering.		
	0.5-4	Dark grey gravel, sand, silt and clay. Moist. Strong odor and stain.	>1999	
	4-8	Red-brown silt and clay. Moist. Strong odor and stain.	>1999	
	8-12	Red-brown silt and clay. Moist. Slight odor, no stain.	32	11-12
	12 (REF)	Refusal on red rock.		
GP-14		LOCATED ~10' south of geoprobe sample location GP-13.		
	0-0.5	Blacktop covering.		
	0.5-4	Dark grey sand and silt. Moist. Strong odor and stain.	>1999	
	4-8	Red-brown silt and clay. Moist. No odor or stain.	4.4	
	8-10	Red-brown silt and clay. Moist. No odor or stain.	36.4	9-10
	10 (REF)	Refusal on red rock.		

Table 1.0
Geoprobe Soil Boring Logs—Liberty Oil Company #38
700 North Railroad Street, Tamaqua, PA 18252
Soil Sampling Program Conducted on 1/13/09 & 1/27/09

Boring ID	Depth (Ft)	Description	PID (ppm)	Analytical Interval (ft)
GP-15		LOCATED ~15' south of geoprobe sample location GP-14.		
	0-0.5	Blacktop covering.		
	0.5-4	Dark grey gravel, sand and silt. Moist. No odor or stain.	5.6	
	4-8	Red-brown silt and clay. Moist. No odor or stain.	0.6	
	8-12	Red-brown silt and clay. Moist. No odor or stain.	<0.5	11-12
	12 (REF)	Refusal on red rock.		
GP-16		LOCATED ~5' east of geoprobe sample location GP-14.		
	0-0.5	Blacktop covering.		
	0.5-3	Dark grey gravel, sand and silt. Moist. Strong odor and stain.	>1999	2-3
	3 (REF)	Refusal on concrete.		
GP-17		LOCATED ~15' west of geoprobe sample location GP-1.		
	0-0.5	Blacktop covering.		
	0.5-4	Dark brown to brown silt and clay. Moist. No odor or stain.	<0.5	
	4-8	Brown silt and clay with some gravel. Moist. No odor or stain.	<0.5	
	8-12	Brown silt and clay with some gravel. Moist. No odor or stain.	4.5	
	12-13.5	Red-brown medium-sized gravel and sand. Moist. No odor or stain.	1.3	12-13.5
	13.5 (REF)	Refusal on large red gravel.		
GP-18		LOCATED ~10' north of geoprobe sample location GP-17.		
	0-0.5	Blacktop covering.		
	0.5-2	Concrete.		
	2-4	Black brown sand and silt. Moist. No odor or stain.	0.7	3-4
	4 (REF)	Refusal on concrete.		
GP-19		LOCATED ~5' east of geoprobe sample location GP-18.		
	0-2	Concrete.		
	2-4	Black-brown gravel and sand. Moist. No odor or stain.	<0.5	
	4-8	Black-brown gravel and sand, with some brick (fill). Moist. No odor or stain.	1.7	
	8-12	Brown silt and clay. Moist. Slight odor, no stain.	41.3	
	12-13	Brown silt and clay. Wet. Moderate odor, no stain.	902	12-13
	13 (REF)	Refusal on rock.		

Table 1.0
Geoprobe Soil Boring Logs—Liberty Oil Company #38
700 North Railroad Street, Tamaqua, PA 18252
Soil Sampling Program Conducted on 1/13/09 & 1/27/09

Boring ID	Depth (Ft)	Description	PID (ppm)	Analytical Interval (ft)
GP-20		LOCATED ~15' north of geoprobe sample location GP-19.		
	0-4	Grey gravel and sand (fill). Moist. No odor or stain.	5.0	
	4-8	Yellow-brown gravel and sand (fill). Moist. No odor or stain.	1.8	
	8-11.5	Brown gravel and sand. Moist. Moderate odor, no stain.	1148	
	11.5 (REF)	Refusal on rock.		
GP-21		LOCATED ~2' south of monitoring well location MW-2.		
	0-4	Grey gravel and sand (fill). Moist. No odor or stain.	1.3	
	4-6	Grey small cobble, large gravel and sand. Moist. No odor or stain.	1.5	5-6
	6 (REF)	Refusal on small cobble.		
GP-22		LOCATED ~2' north of monitoring well location MW-2.		
	0-3	Grey small cobble, large gravel and sand. Moist. No odor or stain.	<0.5	
	3 (REF)	Refusal on small cobble.		
GP-23		LOCATED ~10' east of geoprobe sample location GP-20.		
	0-4	Black gravel and silt (coal and fill). Moist. No odor or stain.	1.9	
	4-8	Void. Black gravel and silt (coal and fill). Moist. No odor or stain.	1.7	
	8-9	Dark brown cobble, gravel, sand and silt. Moist. No odor or stain.	0.9	8-9
	9 (REF)	Refusal on cobble.		
GP-24		LOCATED ~10' south of geoprobe sample location GP-17.		
	0-0.5	Blacktop covering.		
	0.5-4	Brown silt and clay. Moist. No odor or stain.	1.2	
	4-8	Brown silt and clay with small gravel. Moist. No odor or stain.	5.2	
	8-12	Brown silt and clay with small gravel. Moist. No odor or stain.	6.7	
	12-15.5	Brown silt and clay with small gravel. Moist. No odor or stain.	3.7	14-15.5
	15.5 (REF)	Refusal on rock. Water in hole.		
GP-25		LOCATED ~10' south of geoprobe sample location GP-24.		
	0-0.5	Blacktop covering.		
	0.5-4	Brown silt and clay. Moist. No odor or stain.	1.1	
	4 (REF)	Refusal on concrete.		

Table 1.0
Geoprobe Soil Boring Logs—Liberty Oil Company #38
700 North Railroad Street, Tamaqua, PA 18252
Soil Sampling Program Conducted on 1/13/09 & 1/27/09

Boring ID	Depth (Ft)	Description	PID (ppm)	Analytical Interval (ft)
GP-26		LOCATED ~2' east of geoprobe sample location GP-25.		
	0-0.5	Blacktop covering.		
	0.5-4	Light brown silt and clay. Moist. No odor or stain.	5.8	
	4 (REF)	Refusal on concrete.		
GP-27		LOCATED ~5' north of geoprobe sample location GP-25 and ~5' east of vapor well location VW-1.		
	0-0.5	Blacktop covering.		
	0.5-4	Brown silt and clay. Moist. No odor or stain.	5.4	
	4-8	Brown silt and clay. Moist. No odor or stain.	1.3	
	8-12	Brown silt and clay with some small gravel. Moist. No odor or stain.	4.6	
	12-14	Brown silt and clay with some large gravel. Moist. No odor or stain.	15.0	13-14
	14 (REF)	Refusal on gravel.		
GP-28		LOCATED ~10' east of geoprobe sample location GP-25.		
	0-0.5	Blacktop covering.		
	0.5-4	Black gravel, sand, silt and clay. Moist. Strong odor and stain.	>1999	
	4-8	Brown gravel, silt and clay. Moist. Moderate odor, no stain.	462	
	8-12	Brown gravel, silt and clay. Moist. No odor or stain.	22.6	
	12-15.5	Brown gravel, silt and clay. Moist. No odor or stain.	34.7	14-15.5
	15.5	Refusal on large gravel.		
GP-29		LOCATED ~5' south of geoprobe sample location GP-28.		
	0-0.5	Blacktop covering.		
	0.5-4	Black gravel and sand. Moist. Moderate odor, no stain.	365	
	4-8	Brown silt and clay. Moist. Moderate odor, no stain.	423	
	8-10.5	Brown silt and clay, some gravel. Moist. No odor or stain.	47.6	9-10.5
	10.5 (REF)	Refusal on gravel.		
GP-30		LOCATED ~5' west of geoprobe sample location GP-28.		
	0-0.5	Blacktop covering.		
	0.5-4	Black silt and clay. Moist. Strong odor and stain.	>1999	
	4	Move to delineate impacted soil within top 4'.		

Table 1.0
Geoprobe Soil Boring Logs—Liberty Oil Company #38
700 North Railroad Street, Tamaqua, PA 18252
Soil Sampling Program Conducted on 1/13/09 & 1/27/09

Boring ID	Depth (Ft)	Description	PID (ppm)	Analytical Interval (ft)
GP-31		LOCATED ~2' west of geoprobe sample location GP-30.		
	0-0.5	Blacktop covering.		
	0.5-4	Grey-brown sand, silt and clay. Moist. No odor or stain.	19.7	3-4
	4 (REF)	Refusal on concrete.		
GP-32		LOCATED ~10' west of geoprobe sample location GP-29.		
	0-0.5	Blacktop covering.		
	0.5-4	Dark grey gravel, sand and silt. Moist. No odor or stain.	20.3	3-4
	4 (REF)	Refusal on concrete.		
GP-33		LOCATED ~2' north of monitoring well location MW-3.		
	0-0.5	Blacktop covering.		
	0.5-4	Black gravel, sand and silt. Moist. Strong odor and stain.	>1999	
	4-8	Brown silt and clay. Moist. No odor or stain.	14.1	
	8-12	Brown silt and clay. Moist. No odor or stain.	21.9	
	12-13.5	Brown silt and clay, with some gravel. Moist. Slight odor, no stain.	103.5	12-13.5
GP-34	13.5 (REF)	Refusal on gravel.		
		LOCATED ~8' west of geoprobe sample location GP-33.		
	0-0.5	Blacktop covering.		
	0.5-4	Black-brown gravel, sand and silt. Moist. Moderate odor, no stain.	408	
	4-8	Brown silt and clay. Moist. No odor or stain.	4.0	
GP-35		Move to delineate impacted soil within the top 4'.		
		LOCATED ~8' west of geoprobe sample location GP-34.		
	0-0.5	Blacktop covering.		
	0.5-4	Brown gravel, silt and clay. Moist. No odor or stain.	3.1	
	4-8	Brown gravel, silt and clay. Wet. Water in hole. No odor or stain.	3.6	7-8

TABLE
GEOPROBE SOIL QUALITY BORING LOG

LIBERTY OIL COMPANY #38
700 NORTH RAILROAD STREET
TAMAQUA, PA

Boring ID	Date	Depth (ft)	Description	PID Reading (ppm)	Analytical Interval (ft)
LO-1	1/14/2010	0-3	Dark brown.	0	3-4
		3-4	Same as above.	7.9	
		4-5	Same as above.		
		5-6	Dark brown coarse sand.	53.7	7-8
		7-8	Brown-tan clay.	>1,600	
		8-10	Same as above. Saturated.	700-800	10.5-11.2
		10-11.2	Same as above. Saturated.	<60	
		11.2	Refusal.		
LO-2	1/14/2010	0-4	Brown-black soil with coal gravel.	<10	6.5-7
		4-7.2	Brown-tan with coarse gravel.	<5	
		7.2	Refusal.		
LO-3	1/14/2010	0-0.5	Blacktop.	0	11-12
		0.5-3.5	Brown-black soil with coarse sand.	1.2	
		3.5-4	Brown soil, clay. Moist.	0.7	
		4-6	Tan soil. Moist. Band of coarse gravel at 5.5 ft.	0	
		6-8	Brown clayey soil. Moist.	4.8-0	
		8-9	Same as above.		
		9-12	Tan-brown soil with coarse gravel.	0	
		12	Refusal.		
LO-4	1/14/2010	0-1	Fill, coarse sand to gravel.	0	5-6
		1-4	Dark brown clayey soil with cobbles.	0	
		4-6	Same as above.		
		6	Water encountered.		
		6-8	Tan-brown clayey soil with coarse sand. Saturated.	6	
		8-12	Same as above with quartz layer at 10.5 ft.	0	
LO-5	1/14/2010	0-3.5	Fill.		7-8
		3.5-4	Grey cobbles with quartz.	0	
		4-8	Flour (Fill).	0	
		8.4	Refusal.		
LO-6	1/14/2010	0-4	Flour (Fill).	0	5-6
		4-6	Flour (Fill).	0	
		6.4	Refusal. No water encountered.		
LO-7	1/14/2010	0-4	Flour (Fill).	0	14-15
		4-8	Same as above.	0	
		8-12	Same as above.	0	
		12-15	Same as above.	0	
		15	Refusal. No water encountered.		
LO-8	1/14/2010	0-4	Flour (Fill).	0	6.5-7.5
		4-7.7	Same as above.	0	
		7.7	Refusal.		
LO-9	1/14/2010	0-4	Flour (Fill).	0	11-12
		4-8	Same as above.	0	
		8	Water encountered.		
		8-10	Dark coarse sand and cobbles.	7.9	
		10-12	Tan-brown clayey soil with coarse sand.	>800	

TABLE
GEOPROBE SOIL QUALITY BORING LOG

LIBERTY OIL COMPANY #38
700 NORTH RAILROAD STREET
TAMAQUA, PA

Boring ID	Date	Depth (ft)	Description	PID Reading (ppm)	Analytical Interval (ft)
LO-10	1/14/2010	0-3	Fill.	0	5-6
		3-4	Four (Fill).	0	
		4-6	Same as above with dark brown soil.	0	
		6	Refusal. No water encountered.		
LO-11	1/14/2010	0-4	Fill, tan and brown soil with coarse sand and cobbles.	0	No Sample
		4-4.2	Same as above.	0	
		4.2	Refusal. No water encountered.		
LO-12	1/14/2010	0-4	Fill, tan-brown-black soil with coarse sand to cobble.	0	No Sample
		4-4.2	Same as above.	0	
		4.2	Refusal. No water encountered.		
LO-13	1/14/2010	0-2	Fill.		3-4
		2-4	Dark brown soil with coarse gravel.	>1,700	
		4-6	Same as above.	>1,500	
		6-8	Tan-brown clayey soil.	179	
		8	Water encountered.		11-12
		8-10	Same as above.		
		10-12	Reddish tan clayey soil.	53.2	
LO-14	1/14/2010	12	Refusal.		
		0-4	Fill, cobbles to coal dust.	>1,600	
		4-5	Same as above.		
		5-8	Tan-brown silt with cobbles.	5900	
		5.5-6	Moist.		9-10
		8-12	Same as above.	600	
		12-12.5	Water encountered.		12-13
LO-15	1/14/2010	12-13	Same as above.	240	
		13	Refusal.		
LO-16	1/14/2010	0-4.75	Fill with coarse gravel to cobbles.	>1,300	3-4
		4.75	Refusal.		
LO-17	1/14/2010	0-4	Fill with coarse sand and cobbles.	1284	5-6
		4-5	Same as above.		
		5-8	Tan-brown silt with cobbles.	>350	11-12
		8-12	Same as above with cobbles at 10.5 ft.	24.2	
LO-18	1/14/2010	0-4	Fill with cobbles.	100.6	3-4
		4-8	Same as above.	37.6	5-6
		7	Water encountered.		
LO-19	1/14/2010	0-4	Fill.	1333	4-5
		4-5	Same as above.	1200	
		5-7	Tan-brown silt with cobbles.	7700	
		7	Refusal.		
LO-20	1/14/2010	0-4	Fill with cobbles.	4.7	3-4
		4	Refusal.		

ft = feet
ppm = parts per million

**GEOPROBE SOIL BORING LOGS
MARCH 22, 2016**

**LIBERTY OIL COMPANY #38
700 NORTH RAILROAD STREET
TAMAQUA, PA**

Boring ID	Date	Recovery (ft)	Depth (ft)	Description	PID Reading (ppm)	Analytical Interval (ft)
SB-1	3/22/2016	4.5	0-5	Fill material, black sand (coal), redish brown, light brown and gray sand silt and gravel, moist	0	11.5
		4.0	5-10	Same as above, more gravel	0	
			10-12	Same as above, less gravel	0	
			12	End of boring - refusal		
SB-2	3/22/2016	4.5	0-1	Asphalt cap, gray fill gravel and sand, moist	0	15
			1-2.5	Reddish brown sandy silt with cobbles, moist	0	
			2.5-4.5	Black coal sand and gravel, moist. 2" wet lense at 3'	0	
			4.5-5	Cobble at 4.5	0	
		4.0	5-10	Black coal sand and gravel, few cobbles, moist	0	
		2.0	10-13	Gray fossiliferous shale fragments and gray sand, moist	0	
			13-15	Brown sand and silt, trace gravel, moist	0	
			15-17	Brown sand, silt, and gravel, moist 15-16, wet 16-17	0	
SB-3	3/22/2016		17	End of boring	0	11
		3.0	0-1	Fill gavel and sand, moist	0	
			1-2	Black coal sand, silt, and gravel, moist	0	
			2-3.5	Dark brown silt, trace fine gravel, moist	0	
			3.5-5	Medium brown silty clay, some sand, moist	0	
		3.0	5-10	Reddish orange brown clayey silt, some sand and gravel, moist	<1	
SB-4	3/22/2016		10-12	As above, so clay	<1	11
			12	End of boring		
		3.5	0-5	Dark brown to black sand silt, and gravel, few cobbles, moist	0	
		1.5	5-10	As above with more cobbles	0	
		2.5	10-12	Dak brown to reddish brown sand, moist.	0	
			12-12.5	Wet silt and sand lense	0	
SB-5	3/22/2016		12.5-13	Cobble	0	10
			13	End of boring		
		2.5	0-5	Asphalt cap, dark brown to black silty sand, moist	0	
		3.0	5-9	Buff sandstone cobbles, dry	0	
SB-6	3/22/2016		9-10	Medium brown clay, some silt, sand and gravel, moist	0	7
			10	End of boring		
		2.5	0-0.5	Asphalt cap	0	
SB-7	3/22/2016		0.5-5	Black coal sand, silt, and gravel, moist	0	3
		3.0	5-7	Orange brown and light gray weak mottling, moist	0.5	
			7	End of boring, refusal		
			0-0.5	Asphalt cap	0	
			0.5-4.5	Black sand silt and gravel, moist. Wet lense at 4'	50 @ 1' 350 @ 3'	
SB-8	3/22/2016		4.5-7	Light gray sand, silt, and gravel, moist	5 @ 5'	5
			7-8	Medium brown clayey silt, moist	0.3 @ 7'	
			8	End of boring (low water table ~7-7.5')	0 @ 8'	
SB-8	3/22/2016	2.5	0-0.5	Asphalt cap	0	6
			0.5-4.5	Black sand, silt and gravel, moist	<1	
			4.5-5	Light gray sand, silt, and gravel, moist	<1	
		4.0	5-6.5	Black sand, silt, and gravel, moist	<1	
			6.5-8	Light brown sand, wet	<1	
			8	End of Boring		

ft = feet
ppm = parts per million

**GEOPROBE SOIL BORING LOGS
JANUARY 25-26, 2018**

**LIBERTY OIL COMPANY #38
700 NORTH RAILROAD STREET
TAMAQUA, PA**

Boring ID	Date	Recovery (ft)	Depth (ft)	Description	PID Reading (ppm)	Analytical Interval (ft)
SB-9	1/25/2018	4.0	0-1	Medium brown clayey silt, firm, moist	0	3.5
			1-3	Black coal sand, silt, and gravel, moist	0	
		3.0	3-4.5	Grayish brown silt and sand, moist	5	
			4.5-5	Very weathered Sandstone, wet	0	
			5-6.5	Gray fine sand, wet	0	
			6.5-8	Orange brown silt and sand to buff silt and sand, moist	0	
			8	End of boring		
SB-10	1/25/2018	4.0	0-0.5	Asphalt cap	0	3.5
			0.5-3	Black coal sand, silt, and gravel, moist	0	
		3.0	3-5	Gray fine sand and silt, moist; wet 4-5	0	
			5-8	Gray to brown silty sand; water in sleeve, no petroleum odor	0	
			8	End of boring	0	
SB-11	1/25/2018	3.0	0-0.5	Asphalt cap	0	4
			0.5-3	Brownish gray fill gravel and silt, moist	0	
			3-4	Dark brown sand and gravel, moist	7 @ 3'	
		2.0	4-5	Black coal sand, silt, and gravel, moist	10 @ 5'	7
			5-8	Clayey silt, moist	10-15	
			8	End of boring		
SB-12	1/26/2018	4.0	0-0.5	Asphalt cap	0	2
			0.5-2	Dark brown silt and sand, coal and weathered coal, no odors, moist	0	
		2.0	2-4	As above, wet, no odors	0	
			4-5	Gray and pale reddish brown mottled silt and sand, moist	0	
			5-6.5	Black silt and sand, water in sleeve, possibly from upper interval	0	
			6.5-8	Brown silty clay, faint mottling and redox spots, smooth, moist	0	
			8	End of boring		

ft = feet
ppm = parts per million

CENTER POINT TANK SERVICES, INC.						BORING No.: MW-1	
PROJECT NO.:		DATE: 1/19/09		DRILLING METHOD: AIR ROTARY			
PROJECT TITLE: LIBERTY OIL CO. STATION #38-- TAMAQUA				DRILLING COMPANY: C.S. GARBER & SONS, BOYERTOWN, PA			
PROJECT LOCATION: 700 N. RAILROAD STREET TAMAQUA, PENNSYLVANIA (~20' SOUTH OF GARAGE BUILDING NEAR RR TRACK; ~80 FEET WEST OF ROUTE 309/RAILROAD STREET.)				BOREHOLE DIAMETER (IN.) 10 INCH		WATER LEVEL (FT): ~15' BELOW GROUND SURFACE.	
				WEATHER CONDITIONS: 20 DE- GREES, SNOW FLURRIES.		LOGGED BY: R.S. TEREFEENKO, PG	
DEPTH (FT)	LITHOLOGIC DESCRIPTION	PID READING	BLOW COUNTS	SAMPLE DATA INTERVAL TYPE ID #			COMMENTS
0	0-0.5'- GRASS LAWN SURFACING.						
3	0.5-8': CUTTINGS: COAL SILT & GRAVEL (FILL).	<1.0					-No ODOR/NO STAIN- ING
6							No ODOR/NO STAIN- ING
9	8'-10' :CUTTINGS: BROWN SILT, CLAY, & GRAVEL, MOIST, (FILL).	<1.0					
12	10' - 22' CUTTINGS: COBBLES & GRAVEL-SEMI-ANGULAR, W/ SOME SILT, SAND & CLAY , (ALLUVIUM).	<1.0					No ODOR/NO STAIN- ING
15	15'-STEAM VAPORS IN AIR RETURN INDICATING FIRST WATER.						
18							
21	20' BOTTOM OF WELL/WET-MAKING WATER.	<1.0					RETURNED WATER HAD NO ODOR/ NO STAINING.
24	22' END OF BORING.						<u>MW-1 CONSTRUCTION:</u> - 20' TOTAL DEPTH - 4" DIA. PVC - 5' RISER 15' 0.02" SLOT SCREEN #2 NJ MORIE SAND TO 1' ABOVE SCREEN, 1' BENTONITE ABOVE SAND, GROUT TO GRADE. FLUSH MOUNTED W/ LOCKING CAP DEVELOP ± 5 GPM /30 MINUTES (SUB PUMP).
27							
30							

SHEET 1 OF 1	NOTES: LOOSE ALLUVIAL GRAVEL KEPT RUNNING BACK INTO HOLE, PREVENTING SETTING WELL AT DESIRED DEPTH. SET TEMP 8-INCH STEEL CASING TO 22' TO SET WELL.
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CENTER POINT TANK SERVICES, INC.						BORING No.: MW-2	
PROJECT NO.: 06-8-3483		DATE: 1/20/09		DRILLING METHOD: AIR ROTARY			
PROJECT TITLE: LIBERTY OIL COMPANY #38				DRILLING COMPANY: C.S. GARBER & SONS, BOYERTOWN, PA			
PROJECT LOCATION: 700 NORTH RAILROAD STREET TAMAQUA, PA 18252 (~25' NORTH OF FORMER DISPENSER AREA)				BOREHOLE DIAMETER (IN.) 8 INCH		WATER LEVEL (FT): ~15' BELOW GROUND SURFACE.	
				WEATHER CONDITIONS: 20 DE- GREES. SUNNY.		LOGGED BY: R.S. TEREFEENKO, PG	
DEPTH (FT)	LITHOLOGIC DESCRIPTION	PID READING	BLOW COUNTS	SAMPLE DATA INTERVAL TYPE ID #			COMMENTS
0							
—	0-5' - CUTTINGS: BLACK-BROWN GRAVEL, SAND AND SILT. MOIST.						-NO ODOR OR STAIN.
2							
—							
4							
—	5-7' - CUTTINGS: LIGHT GREY GRAVEL AND SAND. MOIST.	2.3					NO ODOR OR STAIN.
6							
—							
8	7 - 12' - CUTTINGS: GREY MEDIUM SIZE GRAVEL AND SAND. MOIST.						NO ODOR OR STAIN.
—							
10							
—							
12							
—	12-17' FEW CUTTINGS: DARK BROWN SAND AND GRAVEL. HARD. MOIST.	31.0 (SOIL GAS)					SLIGHT ODOR, NO STAIN.
14							
—							
16	17' FIRST WATER.						
—							
18	17-22' FEW CUTTINGS: DARK BROWN SAND AND SILT. MOIST. MODERATE ODOR.	185 (SOIL GAS)					<u>MW-2 CONSTRUCTION:</u> - 20' TOTAL DEPTH - 4" DIA. PVC - 2' RISER 18" 0.02" SLOT SCREEN #2 #2 MORIE SAND TO 6" ABOVE SCREEN. 6" BENTONITE ABOVE SAND. GROUT TO GRADE. FLUSH MOUNTED W/ LOCKING CAP DEVELOP 5 GPM / 60 MINUTES (SUB PUMP).
—							
20	22' END OF BORING.						
SHEET 1 OF 1							

CENTER POINT TANK SERVICES, INC.						BORING No.: MW-3	
PROJECT NO.: 06-8-3483		DATE: 1/21/09		DRILLING METHOD: AIR ROTARY			
PROJECT TITLE: LIBERTY OIL COMPANY #38				DRILLING COMPANY: C.S. GARBER & SONS, BOYERTOWN, PA			
PROJECT LOCATION: 700 NORTH RAILROAD STREET TAMAQUA, PA 18252 (~15' SOUTH OF FORMER DISPENSER AREA)				BOREHOLE DIAMETER (IN.) 8 INCH		WATER LEVEL (FT): ~5' BELOW GROUND SURFACE.	
				WEATHER CONDITIONS: 20 DE- GREES. SUNNY.		LOGGED BY: R.S. TEREFEENKO, PG	
DEPTH (FT)	LITHOLOGIC DESCRIPTION	PID READING	BLOW COUNTS	SAMPLE DATA INTERVAL TYPE ID #			COMMENTS
0							
—	0-5' - CUTTINGS: BLACK-BROWN GRAVEL, SAND AND SILT. MOIST.	1947					-STRONG ODOR, NO STAIN.
2							
—							
4							
—	5-10' - CUTTINGS: BLACK-BROWN GRAVEL, SAND AND SILT. MOIST.	417					SLIGHT ODOR, NO STAIN.
6							
—							
8							
—							
10	10' FIRST WATER.						
—							
12	10 - 18' - CUTTINGS: BROWN COBBLE, LARGE GRAVEL AND SAND. WET.	68.7					SLIGHT ODOR, NO STAIN.
—							
14							
—							
16							
—							
18	18-22' CUTTINGS: GREY GRAVEL AND SAND MOIST.	57.7					
—							
20	22' END OF BORING.						

SHEET 1 OF 1

MW-3 CONSTRUCTION:
 - 20' TOTAL DEPTH
 - 4" DIA. PVC
 - 2' RISER
 18" 0.02" SLOT SCREEN
 #2 #2 MORIE SAND TO
 6" ABOVE SCREEN.
 6" BENTONITE ABOVE
 SAND. GROUT TO
 GRADE. FLUSH MOUNTED
 W/ LOCKING CAP
 DEVELOP 5 GPM / 60
 MINUTES (SUB PUMP).

CENTER POINT TANK SERVICES, INC.						BORING No.: MW-4	
PROJECT NO.:06-8-3483		DATE: 8/25/09		DRILLING METHOD: AIR ROTARY			
PROJECT TITLE: LIBERTY OIL COMPANY #38				DRILLING COMPANY: B.L. MYERS BROS., GLENMOORE, PA			
PROJECT LOCATION: 700 NORTH RAILROAD STREET TAMAQUA, PA 18252 (~20' EAST OF STATION BUILDING)				BOREHOLE DIAMETER (IN.) 8 INCH		WATER LEVEL (FT): ~5' BELOW GROUND SURFACE.	
				WEATHER CONDITIONS: 75 DE- GREES. SUNNY.		LOGGED BY: PATRICK S. CRAWFORD, PG	
DEPTH (FT)	LITHOLOGIC DESCRIPTION	PID READING	BLOW COUNTS	SAMPLE DATA INTERVAL TYPE I D #			COMMENTS
0							
—	0-4'- FILL	250					-STRONG ODOR, NO STAIN.
2							
—							
4							
—	4-5.5'-QUARTZ LAYER (CLEAR TO WHITE GRANITIC)	675					STRONG ODOR, NO STAIN.
6							
—	5.5' - 10' COAL SPOILS						
8							
—							
10							
—							
12	14' FIRST WATER	710					STRONG ODOR PRODUCT BLOWING FROM CRACKS IN THE GROUND SURFACE
—	14' - 18' - CUTTINGS: BROWN , SANDSTONE WET						
14							
—							
16							
—							
18	19' END OF BORING.	765					<u>MW-4 CONSTRUCTION:</u> - 19' TOTAL DEPTH - 4" DIA. PVC - 4' RISER 16" 0.02" SLOT SCREEN #2 MORIE SAND TO 6" ABOVE SCREEN, 6" BENTONITE ABOVE SAND, GROUT TO GRADE. FLUSH MOUNTED W/ LOCKING CAP DEVELOP 5 GPM /60
—							
20							

SHEET 1 OF 1	
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CENTER POINT TANK SERVICES, INC.						BORING No.: MW-5	
PROJECT NO.: 06-8-3483		DATE: 8/25/09		DRILLING METHOD: AIR ROTARY			
PROJECT TITLE: LIBERTY OIL COMPANY #38				DRILLING COMPANY: B.L. MYERS BROS., GLENMOORE, PA			
PROJECT LOCATION: 700 NORTH RAILROAD STREET TAMAQUA, PA 18252				BOREHOLE DIAMETER (IN.) 6 INCH		WATER LEVEL (FT): ~14' BELOW GROUND SURFACE.	
				WEATHER CONDITIONS: 75 DE- GREES. SUNNY.		LOGGED BY: PATRICK S. CRAWFORD, PG	
DEPTH (FT)	LITHOLOGIC DESCRIPTION	PID READING	BLOW COUNTS	SAMPLE DATA INTERVAL TYPE ID #			COMMENTS
0							
—	0-5'— CUTTINGS: FILL SAND AND GRAVEL	0					-NO ODOR, NO STAIN.
2							
—							
4							
—	5-10'—CUTTINGS: COAL SPOILS	0					NO ODOR, NO STAIN.
6							
—							
8							
—							
10							
—	10 – 18' – CUTTINGS: BROWN SANDSTONE	0					NO ODOR, NO STAIN.
12							
—	14' FIRST WATER.						
14							
—							
16							
—							
18	18' END OF BORING.	0					<u>MW-5 CONSTRUCTION:</u> - 18' TOTAL DEPTH - 4" DIA. PVC - 3' RISER 15' 0.02" SLOT SCREEN #2 MORIE SAND TO 6" ABOVE SCREEN. 6" BENTONITE ABOVE SAND. GROUT TO GRADE. FLUSH MOUNTED W/ LOCKING CAP DEVELOP 5 GPM / 60 MINUTES (SUB PUMP).
20							
SHEET 1 OF 1							

CENTER POINT TANK SERVICES, INC.						BORING No.: MW-6	
PROJECT NO.:06-8-3483		DATE: 8/25/09		DRILLING METHOD: AIR ROTARY			
PROJECT TITLE: LIBERTY OIL COMPANY #38				DRILLING COMPANY: B.L. MYERS BROS., GLENMOORE, PA			
PROJECT LOCATION: 700 NORTH RAILROAD STREET TAMAQUA, PA 18252				BOREHOLE DIAMETER (IN.) 6 INCH		WATER LEVEL (FT): ~12' BELOW GROUND SURFACE.	
				WEATHER CONDITIONS: 75 DE- GREES. SUNNY.		LOGGED BY: PATRICK S. CRAWFORD, PG	
DEPTH (FT)	LITHOLOGIC DESCRIPTION	PID READING	BLOW COUNTS	SAMPLE DATA INTERVAL TYPE I D #			COMMENTS
0							
—	0-5'- CUTTINGS: FILL, SAND AND GRAVEL	0					-No ODOR, NO STAIN.
2							
—							
4							
—	5-10'-COAL SPOILS	0					No. NO STAIN.
6							
—							
8							
—	10 - 15' - BROWN SANDSTONE						No ODOR, NO STAIN
10	"						
—							
12	12' FIRST WATER	0					No ODOR, NO STAIN.
—							
14	15' END OF BORING						
—							
16							
—							
18							
—							
20							

MW-6 CONSTRUCTION:
 - 15' TOTAL DEPTH
 - 4" DIA. PVC
 - 2' RISER
 13" 0.02" SLOT SCREEN
 #2 MORIE SAND TO 6"
 ABOVE SCREEN,
 6" BENTONITE ABOVE
 SAND, GROUT TO
 GRADE. FLUSH MOUNTED
 W/ LOCKING CAP
 DEVELOP 5 GPM /60
 MINUTES (SUB PUMP).

SHEET 1 OF 1

CENTER POINT TANK SERVICES, INC.					BORING No.: MW-7		
PROJECT NO.:06-8-3483		DATE: 1/14/2010		DRILLING METHOD: GEOPROBE 6620 WITH HOLLOW STEM AUGER/AIR ROTARY			
PROJECT TITLE: LIBERTY OIL COMPANY #38				DRILLING COMPANY: B.L. MYERS BROS., GLENMOORE, PA			
PROJECT LOCATION: 700 NORTH RAILROAD STREET TAMAQUA, PA 18252				BOREHOLE DIAMETER (IN.) 6 INCH		WATER LEVEL (FT): ~15' BELOW GROUND SURFACE.	
				WEATHER CONDITIONS: 30's, CLEAR		LOGGED BY: PATRICK S. CRAWFORD, PG	
DEPTH (FT)	LITHOLOGIC DESCRIPTION	PID READING	BLOW COUNTS	SAMPLE DATA INTERVAL TYPE ID #			COMMENTS
0							
—	0-5'- GRAVEL-BLACK COAL SPOILS (FILL)						
2							
—							
4							
—	5-9'-LEAN CLAY, BROWN TO ORANGE	3284					
6							
—							
8							
—	9-10' - RED CLAY (AUGER REFUSAL AT 10')						
10	10-17' - RED CLAY						
—							
12							
—							
14							
—	15' WATER ENCOUNTERED						
16							
—	17-20' ROUNDED QUARTZ COBBLES, ABUNDANT WATER						
18							
—							
20	20' - END OF BORING						

SHEET 1 OF 1

MW-7 CONSTRUCTION:

- 20' TOTAL DEPTH
- 4" DIA. PVC
- 2' RISER
- 18" 0.02" SLOT SCREEN
- #2 MORIE SAND TO 1'
- ABOVE SCREEN.
- 1' BENTONITE ABOVE
- SAND, GROUT TO
- GRADE, FLUSH MOUNTED
- W/ LOCKING CAP
- DEVELOP 5 GPM / 60
- MINUTES (SUB PUMP).

CENTER POINT TANK SERVICES, INC.						BORING No.: MW-8	
PROJECT NO.:06-8-3483		DATE: 1/14/2010		DRILLING METHOD: GEOPROBE 6620 WITH HOLLOW STEM AUGER/AIR ROTARY			
PROJECT TITLE: LIBERTY OIL COMPANY #38				DRILLING COMPANY: B.L. MYERS BROS., GLENMOORE, PA			
PROJECT LOCATION: 700 NORTH RAILROAD STREET TAMAQUA, PA 18252				BOREHOLE DIAMETER (IN.) 6 INCH		WATER LEVEL (FT): ~14' BELOW GROUND SURFACE.	
				WEATHER CONDITIONS: 30's, CLEAR		LOGGED BY: PATRICK S. CRAWFORD, PG	
DEPTH (FT)	LITHOLOGIC DESCRIPTION	PID READING	BLOW COUNTS	SAMPLE DATA INTERVAL TYPE ID #			COMMENTS
0							
—	0-5'- FILL COAL						
2							
—							
4							
—	5 - 10'-RED SILTY SAND, STRONG ODOR	>550					
6							
—							
8							
—							
10	10-18' - RED SILT WITH 1/4" DIAMETER ROCK COBBLES						
—							
12							
—							
14	14' - WATER ENCOUNTERED						
—							
16							
—							
18	18-20' GRAVEL AND SILT						
—							
20	20' - END OF BORING						

MW-7 CONSTRUCTION:
 - 20' TOTAL DEPTH
 - 4" DIA. PVC
 - 5' RISER
 15' 0.02" SLOT SCREEN
 #2 MORIE SAND TO 1'
 ABOVE SCREEN.
 4' BENTONITE ABOVE
 SAND, GROUT TO
 GRADE, FLUSH MOUNTED
 W/ LOCKING CAP
 DEVELOP 5 GPM / 60
 MINUTES (SUB PUMP).

CENTER POINT TANK SERVICES INC <i>Storage Tank Management Services</i>				Well ID MW-9	
Site Name: Liberty Oil #38		Job # 08-12-4292		Date: April 30, 2012	
Site/Boring Location: 700 N. Railroad Street Tamaqua, PA on eastern side of traffic island, between 309 N and 309 S				Subcontractor: Eichelbergers, Inc.	
Weather: Sunny, 50s				Drilling Method: Air rotary	
CPTS oversight: Rachel Burkart, P.G.				Borehole Dia.: 8"	
				DTW: NA	
				DTR: NA	
Depth (feet)		Description		PID	Comments/Recovery
0	0-3	Dark red/brown silt, sand and gravel, moist		0	Well Construction Detail: 18' - 4" PVC well screen 2' - 2" solid PVC riser sand pack 1.5' to 20' bentonite seal 0.5'-1.5' complete with concrete pad and flushmount
1					
2					
3	3-7	As above, dark gray		0	
4		little coal and wood backfill			
5				0	
6					
7	7-12	Gray, sand, silt and gravel, moist		0	
8					
9				0	
10					
11					
12	12-16	Shale and quartz gravel and sand, moist		0	
13					
14					
15				0	
16	16	finer cuttings, increased moisture, hydrocarbon odor		140	
17					
18	18-26	Sand and gravel, wet, hydrocarbon odor		450	
19					
20					
21				225	
22					
23					
24		As above, larger gravel		100	
25				45	
26		End of Boring 26' collapsed to 20'			
27					
28					
29					
30					

CENTER POINT TANK SERVICES INC <i>Storage Tank Management Services</i>			Well ID MW-10																																																									
Site Name: Liberty Oil #38		Job # 08-12-4292	Date: April 30, 2012																																																									
Site/Boring Location: 700 N. Railroad Street Tamaqua, PA on western side of traffic island, between 309 N and 309 S			Subcontractor: Eichelbergers, Inc.																																																									
Weather: Sunny, 60s			Drilling Method: Air Rotary																																																									
CPTS oversight: Rachel Burkart, P.G.			Borehole Dia.: 8"																																																									
			DTW: NA DTR: NA																																																									
<table border="1"> <thead> <tr> <th colspan="2">Depth (feet)</th> <th>Description</th> <th>PID</th> <th>Comments/Recovery</th> </tr> </thead> <tbody> <tr> <td>0</td> <td rowspan="4">0-5</td> <td rowspan="4">Red/brown silt, sand and gravel, dry</td> <td>0</td> <td rowspan="19"></td> </tr> <tr><td>1</td></tr> <tr><td>2</td></tr> <tr><td>3</td></tr> <tr> <td>4</td> <td rowspan="4">5-11</td> <td rowspan="4">Gray, sand, silt and gravel, moist brick, glass, and wood fragments - backfill material</td> <td>0</td> </tr> <tr><td>5</td></tr> <tr><td>6</td></tr> <tr><td>7</td></tr> <tr> <td>8</td> <td rowspan="4">11-16</td> <td rowspan="4">Concrete, dry</td> <td>0</td> </tr> <tr><td>9</td></tr> <tr><td>10</td></tr> <tr><td>11</td></tr> <tr> <td>12</td> <td rowspan="4">16-20</td> <td rowspan="4">Brownish gray silt, sand, and gravel moist</td> <td>0</td> </tr> <tr><td>13</td></tr> <tr><td>14</td></tr> <tr><td>15</td></tr> <tr> <td>16</td> <td rowspan="4">18-20</td> <td rowspan="4">possible boulder</td> <td>0</td> </tr> <tr><td>17</td></tr> <tr><td>18</td></tr> <tr><td>19</td></tr> <tr> <td>20</td> <td colspan="2">End of Boring at 20'</td> <td>215</td> <td rowspan="11"> Well Construction Detail: 18' - 4" PVC well screen 2' - 2" solid PVC riser sand pack 1.5' to 20' bentonite seal 0.5'-1.5' complete with concrete pad and flushmount </td> </tr> <tr><td>21</td></tr> <tr><td>22</td></tr> <tr><td>23</td></tr> <tr><td>24</td></tr> <tr><td>25</td></tr> <tr><td>26</td></tr> <tr><td>27</td></tr> <tr><td>28</td></tr> <tr><td>29</td></tr> <tr><td>30</td></tr> </tbody> </table>					Depth (feet)		Description	PID	Comments/Recovery	0	0-5	Red/brown silt, sand and gravel, dry	0		1	2	3	4	5-11	Gray, sand, silt and gravel, moist brick, glass, and wood fragments - backfill material	0	5	6	7	8	11-16	Concrete, dry	0	9	10	11	12	16-20	Brownish gray silt, sand, and gravel moist	0	13	14	15	16	18-20	possible boulder	0	17	18	19	20	End of Boring at 20'		215	Well Construction Detail: 18' - 4" PVC well screen 2' - 2" solid PVC riser sand pack 1.5' to 20' bentonite seal 0.5'-1.5' complete with concrete pad and flushmount	21	22	23	24	25	26	27	28	29	30
Depth (feet)		Description	PID	Comments/Recovery																																																								
0	0-5	Red/brown silt, sand and gravel, dry	0																																																									
1																																																												
2																																																												
3																																																												
4	5-11	Gray, sand, silt and gravel, moist brick, glass, and wood fragments - backfill material	0																																																									
5																																																												
6																																																												
7																																																												
8	11-16	Concrete, dry	0																																																									
9																																																												
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CENTER POINT TANK SERVICES INC <i>Storage Tank Management Services</i>			Well ID MW-11	
Site Name: Liberty Oil #38		Job # 08-12-4292	Date: March 22, 2016	
Site/Boring Location: 700 N. Railroad Street Tamaqua, PA near northwestern property boundary			Subcontractor: Odyssey Environmental	
Weather: Sunny, 30s			Drilling Method: Auger	
CPTS oversight: Rachel Burkart, P.G.			Borehole Dia.: 6"	
			DTW: NA DTR: NA	
Depth (feet)		Description	PID	Comments/Recovery
0	0-5	Very dark brown silty sand and fine to medium gravel fill material coal fragments, glass, wood, moist	0	
1				
2				
3				
4				
5	5-9	Brown silt, some subround gravel, moist	0	sample coal fill material at 5 feet
6				
7				
8				
9	9-17	Reddish brown silt with subround gravel, moist	0	
10				
11				
12		cobble at 12'	0	sample at 11.5'
13				
14				
15			0	
16				
17		End of boring at 17 feet		Well Construction Detail: 15' - 2" PVC well screen 2' - 2" solid PVC riser sand pack 1.5' to 17' bentonite seal 0.5'-1.5' complete with concrete pad and flushmount
18				
19				
20				
21				

CENTER POINT TANK SERVICES INC <i>Storage Tank Management Services</i>				Well ID MW-12	
Site Name: Liberty Oil #38		Job # 08-12-4292		Date: January 25, 2018	
Site/Boring Location: 700 N. Railroad Street Tamaqua, PA Thorne's property, closest to traffic island				Subcontractor: Odyssey Environmental	
Weather: Sunny, 20s, breezy				Drilling Method: Auger	
CPTS oversight: Rachel Burkart, P.G.				Borehole Dia.: 6"	
				DTW: NA DTR: NA	
Depth (feet)		Description	PID	Comments/Recovery	
0	0-0.5	Asphalt cap			
	0.5-2	Black silt, moist, sewery odor	0		
1					
2	2-7	Very dark Brown silt, trace sand and fine gravel, moist, no odors	0		
3					
4					
5			0		
6					
7	7-9	Dark brown gravelly silt and fill material (coal, brick, and fragments of friable asphalt), moist, petroleum odor	35	collect sample at 7.5'	
8			30		
9	9-11.5	Dark brown silt, less gravel, soft, wet, stron petroleum odor	200	reading in wet soil	
10					
11			55		
12		End of Boring at 11.5		Well Construction Detail: 7.5' - 2" PVC well screen 4' - 2" solid PVC riser sand pack 3 - 11.5' bentonite seal 1'-3' complete with concrete pad and flushmount	
13					
14					
15					
16					
17					
18					
19					
20					
21					

CENTER POINT TANK SERVICES INC <i>Storage Tank Management Services</i>				Well ID MW-13	
Site Name: Liberty Oil #38		Job # 08-12-4292		Date: January 25, 2018	
Site/Boring Location: 700 N. Railroad Street Tamaqua, PA Eastern side of Thorne's property				Subcontractor: Odyssey Environmental	
Weather: Sunny, 20s, breezy				Drilling Method: Auger	
CPTS oversight: Rachel Burkart, P.G.				Borehole Dia.: 6"	
				DTW: NA DTR: NA	
Depth (feet)		Description		PID	Comments/Recovery
0	0-0.5	Asphalt cap			
	0.5-3.5	Very dark brown to black silt, and sand, trace gravel, moist		0	
1					
2		as above, wet lense		10	
3		as above, petroleum odor and moisture increasing		20	
	3.5-4.5	< 6" clayey layer light brown, moist			hard drilling
4		Brown sand and silt, trace fine gravel, some friable asphalt, moist		15	
	4.5-5.5	As above, less gravel,			easier drilling
5					
	5.5-10	Medium Brown silt and sand, loose, moist			
6		slight petroleum odor to 6 feet		15-20	
		no odors at 6.5 feet or below		10	
7					
8					
9					
10	10-11	Medium brown silt and subround gravel, slow drilling		0	
11	11-13.5	As above, less gravel, moist			
12					
	12.5	wet		15	reading on wet soil
13					
14		End of Boring at 13.5			Well Construction Detail:
15					11.5' - 2" PVC well screen
16					4' - 2" solid PVC riser
17					sand pack 3 - 13.5'
18					bentonite seal 1'-3'
19					complete with concrete
20					pad and flushmount
21					

APPENDIX D

Soil Analytical Data Reports

26 January 2009

CENTERPOINT TANK SERVICES, INC

Roger Tartaglia
536 Benjamin Franklin Highway
Douglassville, PA 19518

RE: Liberty #38

Laboratory ID #: KSA0201

Enclosed are the results of analyses for samples received by the laboratory on 01/14/09 10:17. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "O. Burgos", is written over a light gray rectangular background.

Oswaldo Burgos
Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP-1 (3-4)	KSA0201-01	Soil	01/13/09 09:40	01/14/09 10:17
GP-3 (14-14.5)	KSA0201-02	Soil	01/13/09 10:45	01/14/09 10:17
GP-5 (13-14)	KSA0201-03	Soil	01/13/09 11:40	01/14/09 10:17
GP-6 (15-15.5)	KSA0201-04	Soil	01/13/09 12:05	01/14/09 10:17
GP-9 (8-9)	KSA0201-05	Soil	01/13/09 12:45	01/14/09 10:17
GP-11 (12-12.5)	KSA0201-06	Soil	01/13/09 13:20	01/14/09 10:17
GP-13 (11-12)	KSA0201-07	Soil	01/13/09 13:50	01/14/09 10:17
GP-14 (9-10)	KSA0201-08	Soil	01/13/09 14:10	01/14/09 10:17
GP-15 (11-12)	KSA0201-09	Soil	01/13/09 14:30	01/14/09 10:17
GP-16 (2-3)	KSA0201-10	Soil	01/13/09 14:40	01/14/09 10:17

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

Total Metals by EPA 6000/7000 Series Methods

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-1 (3-4) (KSA0201-01) Soil Sampled: 01/13/09 09:40 Received: 01/14/09 10:17									
Lead	79	1.3	mg/kg dry	1	9011901	01/19/09	01/21/09	EPA 6010B	
GP-3 (14-14.5) (KSA0201-02) Soil Sampled: 01/13/09 10:45 Received: 01/14/09 10:17									
Lead	8.3	1.0	mg/kg dry	1	9011901	01/19/09	01/21/09	EPA 6010B	
GP-5 (13-14) (KSA0201-03) Soil Sampled: 01/13/09 11:40 Received: 01/14/09 10:17									
Lead	13	1.0	mg/kg dry	1	9011901	01/19/09	01/21/09	EPA 6010B	
GP-6 (15-15.5) (KSA0201-04) Soil Sampled: 01/13/09 12:05 Received: 01/14/09 10:17									
Lead	6.6	1.0	mg/kg dry	1	9011901	01/19/09	01/21/09	EPA 6010B	
GP-9 (8-9) (KSA0201-05) Soil Sampled: 01/13/09 12:45 Received: 01/14/09 10:17									
Lead	11	1.0	mg/kg dry	1	9011901	01/19/09	01/21/09	EPA 6010B	
GP-11 (12-12.5) (KSA0201-06) Soil Sampled: 01/13/09 13:20 Received: 01/14/09 10:17									
Lead	10	1.0	mg/kg dry	1	9011901	01/19/09	01/21/09	EPA 6010B	
GP-13 (11-12) (KSA0201-07) Soil Sampled: 01/13/09 13:50 Received: 01/14/09 10:17									
Lead	6.5	1.0	mg/kg dry	1	9011901	01/19/09	01/21/09	EPA 6010B	
GP-14 (9-10) (KSA0201-08) Soil Sampled: 01/13/09 14:10 Received: 01/14/09 10:17									
Lead	8.9	1.0	mg/kg dry	1	9011901	01/19/09	01/21/09	EPA 6010B	
GP-15 (11-12) (KSA0201-09) Soil Sampled: 01/13/09 14:30 Received: 01/14/09 10:17									
Lead	11	1.0	mg/kg dry	1	9011901	01/19/09	01/21/09	EPA 6010B	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

Total Metals by EPA 6000/7000 Series Methods

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-16 (2-3) (KSA0201-10) Soil Sampled: 01/13/09 14:40 Received: 01/14/09 10:17									
Lead	20	1.0	mg/kg dry	1	9011901	01/19/09	01/21/09	EPA 6010B	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-1 (3-4) (KSA0201-01) Soil Sampled: 01/13/09 09:40 Received: 01/14/09 10:17									RL1

1,2-Dibromoethane	ND	260	ug/kg dry	50	9011612	01/16/09	01/19/09	EPA 8260B	
1,2-Dichloroethane	ND	260	"	"	"	"	"	"	
Isopropylbenzene	17000	260	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.2 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		121 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %	33.4-187		"	"	"	"	

GP-1 (3-4) (KSA0201-01RE1) Soil Sampled: 01/13/09 09:40 Received: 01/14/09 10:17									RL7
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Benzene	7700	5100	ug/kg dry	1000	9011612	01/16/09	01/21/09	EPA 8260B	
Ethylbenzene	84000	5100	"	"	"	"	"	"	
Naphthalene	46000	6400	"	"	"	"	"	"	
Toluene	110000	5100	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	380000	5100	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	130000	5100	"	"	"	"	"	"	
Xylenes (total)	740000	15000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		99.8 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		102 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	33.4-187		"	"	"	"	

GP-3 (14-14.5) (KSA0201-02) Soil Sampled: 01/13/09 10:45 Received: 01/14/09 10:17									RL7
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Ethylbenzene	3300	200	ug/kg dry	50	9011612	01/16/09	01/19/09	EPA 8260B	
1,2,4-Trimethylbenzene	22000	200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	7200	200	"	"	"	"	"	"	
Xylenes (total)	15000	600	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.8 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		105 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	33.4-187		"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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GP-3 (14-14.5) (KSA0201-02RE1) Soil Sampled: 01/13/09 10:45 Received: 01/14/09 10:17

Benzene	110	4.0	ug/kg dry	1	9011612	01/16/09	01/21/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	C
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Isopropylbenzene	190	4.0	"	"	"	"	"	"	
Naphthalene	400	5.0	"	"	"	"	"	"	
Toluene	66	4.0	"	"	"	"	"	"	
<hr/>									
Surrogate: Dibromofluoromethane		105 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		112 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		102 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	33.4-187		"	"	"	"	

GP-5 (13-14) (KSA0201-03) Soil Sampled: 01/13/09 11:40 Received: 01/14/09 10:17

Benzene	230	4.0	ug/kg dry	1	9011612	01/16/09	01/19/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	150	4.0	"	"	"	"	"	"	
Isopropylbenzene	28	4.0	"	"	"	"	"	"	
Naphthalene	70	5.0	"	"	"	"	"	"	
Toluene	56	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	520	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	160	4.0	"	"	"	"	"	"	
Xylenes (total)	710	12	"	"	"	"	"	"	
<hr/>									
Surrogate: Dibromofluoromethane		101 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		105 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		103 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	33.4-187		"	"	"	"	

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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GP-6 (15-15.5) (KSA0201-04) Soil Sampled: 01/13/09 12:05 Received: 01/14/09 10:17

Benzene	100	4.0	ug/kg dry	1	9011612	01/16/09	01/19/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	52	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	4.0	"	"	"	"	"	"	
Naphthalene	34	5.0	"	"	"	"	"	"	
Toluene	70	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	77	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	23	4.0	"	"	"	"	"	"	
Xylenes (total)	130	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		99.2 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		104 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	33.4-187		"	"	"	"	

GP-9 (8-9) (KSA0201-05) Soil Sampled: 01/13/09 12:45 Received: 01/14/09 10:17

1,2-Dibromoethane	ND	4.0	ug/kg dry	1	9011612	01/16/09	01/19/09	EPA 8260B	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	180	4.0	"	"	"	"	"	"	
Isopropylbenzene	9.4	4.0	"	"	"	"	"	"	
Naphthalene	110	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	330	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	100	4.0	"	"	"	"	"	"	
Xylenes (total)	1100	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		111 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		105 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	33.4-187		"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-9 (8-9) (KSA0201-05RE1) Soil Sampled: 01/13/09 12:45 Received: 01/14/09 10:17 RL7									
Benzene	940	200	ug/kg dry	50	9011612	01/16/09	01/21/09	EPA 8260B	
Toluene	2700	200	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.8 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		101 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	33.4-187		"	"	"	"	
GP-11 (12-12.5) (KSA0201-06) Soil Sampled: 01/13/09 13:20 Received: 01/14/09 10:17 RL1									
Benzene	28000	200	ug/kg dry	50	9011612	01/16/09	01/19/09	EPA 8260B	
1,2-Dibromoethane	ND	200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	200	"	"	"	"	"	"	
Isopropylbenzene	14000	200	"	"	"	"	"	"	
Naphthalene	26000	250	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.1 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		121 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		121 %	33.4-187		"	"	"	"	
GP-11 (12-12.5) (KSA0201-06RE1) Soil Sampled: 01/13/09 13:20 Received: 01/14/09 10:17 RL7									
Ethylbenzene	66000	10000	ug/kg dry	2500	9011612	01/16/09	01/21/09	EPA 8260B	
Toluene	190000	10000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	260000	10000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	95000	10000	"	"	"	"	"	"	
Xylenes (total)	470000	30000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		101 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		101 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	33.4-187		"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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GP-13 (11-12) (KSA0201-07) Soil Sampled: 01/13/09 13:50 Received: 01/14/09 10:17

1,2-Dibromoethane	ND	4.0	ug/kg dry	1	9011612	01/16/09	01/19/09	EPA 8260B	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	71	4.0	"	"	"	"	"	"	
Isopropylbenzene	11	4.0	"	"	"	"	"	"	
Naphthalene	41	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	380	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	160	4.0	"	"	"	"	"	"	
Xylenes (total)	730	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		109 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		102 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	33.4-187		"	"	"	"	

GP-13 (11-12) (KSA0201-07RE1) Soil Sampled: 01/13/09 13:50 Received: 01/14/09 10:17

Benzene	ND	200	ug/kg dry	50	9011612	01/16/09	01/21/09	EPA 8260B	A-01
Toluene	ND	200	"	"	"	"	"	"	A-01
Surrogate: Dibromofluoromethane		97.0 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		100 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		99.3 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	33.4-187		"	"	"	"	

GP-14 (9-10) (KSA0201-08) Soil Sampled: 01/13/09 14:10 Received: 01/14/09 10:17

Benzene	ND	4.0	ug/kg dry	1	9011612	01/16/09	01/19/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	ND	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	4.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Toluene	8.4	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	14	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	4.4	4.0	"	"	"	"	"	"	
Xylenes (total)	17	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	42.6-163		"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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GP-14 (9-10) (KSA0201-08) Soil Sampled: 01/13/09 14:10 Received: 01/14/09 10:17

Surrogate: 1,2-Dichloroethane-d4	106 %	48.2-167	9011612	01/16/09	01/19/09	EPA 8260B	
Surrogate: Toluene-d8	102 %	41.6-167	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	33.4-187	"	"	"	"	

GP-15 (11-12) (KSA0201-09) Soil Sampled: 01/13/09 14:30 Received: 01/14/09 10:17

Benzene	ND	4.0	ug/kg dry	1	9011612	01/16/09	01/19/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	ND	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	4.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
Xylenes (total)	ND	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	102 %	42.6-163	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	105 %	48.2-167	"	"	"	"	"	"	
Surrogate: Toluene-d8	102 %	41.6-167	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	33.4-187	"	"	"	"	"	"	

GP-16 (2-3) (KSA0201-10) Soil Sampled: 01/13/09 14:40 Received: 01/14/09 10:17

RLI

1,2-Dibromoethane	ND	200	ug/kg dry	50	9011612	01/16/09	01/19/09	EPA 8260B	
1,2-Dichloroethane	ND	200	"	"	"	"	"	"	
Isopropylbenzene	21000	200	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	100 %	42.6-163	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	108 %	48.2-167	"	"	"	"	"	"	
Surrogate: Toluene-d8	125 %	41.6-167	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	122 %	33.4-187	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-16 (2-3) (KSA0201-10RE1) Soil Sampled: 01/13/09 14:40 Received: 01/14/09 10:17									RL7
Benzene	42000	10000	ug/kg dry	2500	9011612	01/16/09	01/21/09	EPA 8260B	
Ethylbenzene	100000	10000	"	"	"	"	"	"	
Naphthalene	46000	12000	"	"	"	"	"	"	
Toluene	360000	10000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	350000	10000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	110000	10000	"	"	"	"	"	"	
Xylenes (total)	670000	30000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		99.5 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		102 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		101 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.7 %	33.4-187		"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

Volatile Organic Compounds by EPA Method 8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-1 (3-4) (KSA0201-01) Soil Sampled: 01/13/09 09:40 Received: 01/14/09 10:17									RL1
Methyl tert-butyl ether	ND	260	ug/kg dry	50	9011612	01/16/09	01/19/09	EPA 8260B	
Surrogate: Dibromofluoromethane		97.2 %	42.6-163		"	"	"	"	
GP-3 (14-14.5) (KSA0201-02RE1) Soil Sampled: 01/13/09 10:45 Received: 01/14/09 10:17									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	9011612	01/16/09	01/21/09	EPA 8260B	
Surrogate: Dibromofluoromethane		105 %	42.6-163		"	"	"	"	
GP-5 (13-14) (KSA0201-03) Soil Sampled: 01/13/09 11:40 Received: 01/14/09 10:17									
Methyl tert-butyl ether	47	4.0	ug/kg dry	1	9011612	01/16/09	01/19/09	EPA 8260B	
Surrogate: Dibromofluoromethane		101 %	42.6-163		"	"	"	"	
GP-6 (15-15.5) (KSA0201-04) Soil Sampled: 01/13/09 12:05 Received: 01/14/09 10:17									
Methyl tert-butyl ether	59	4.0	ug/kg dry	1	9011612	01/16/09	01/19/09	EPA 8260B	
Surrogate: Dibromofluoromethane		99.2 %	42.6-163		"	"	"	"	
GP-9 (8-9) (KSA0201-05) Soil Sampled: 01/13/09 12:45 Received: 01/14/09 10:17									
Methyl tert-butyl ether	200	4.0	ug/kg dry	1	9011612	01/16/09	01/19/09	EPA 8260B	
Surrogate: Dibromofluoromethane		102 %	42.6-163		"	"	"	"	
GP-11 (12-12.5) (KSA0201-06) Soil Sampled: 01/13/09 13:20 Received: 01/14/09 10:17									RL1
Methyl tert-butyl ether	800	200	ug/kg dry	50	9011612	01/16/09	01/19/09	EPA 8260B	
Surrogate: Dibromofluoromethane		98.1 %	42.6-163		"	"	"	"	
GP-13 (11-12) (KSA0201-07) Soil Sampled: 01/13/09 13:50 Received: 01/14/09 10:17									
Methyl tert-butyl ether	72	4.0	ug/kg dry	1	9011612	01/16/09	01/19/09	EPA 8260B	
Surrogate: Dibromofluoromethane		104 %	42.6-163		"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

Volatile Organic Compounds by EPA Method 8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-14 (9-10) (KSA0201-08) Soil Sampled: 01/13/09 14:10 Received: 01/14/09 10:17									
Methyl tert-butyl ether	11	4.0	ug/kg dry	1	9011612	01/16/09	01/19/09	EPA 8260B	
Surrogate: Dibromofluoromethane		101 %	42.6-163		"	"	"	"	
GP-15 (11-12) (KSA0201-09) Soil Sampled: 01/13/09 14:30 Received: 01/14/09 10:17									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	9011612	01/16/09	01/19/09	EPA 8260B	
Surrogate: Dibromofluoromethane		102 %	42.6-163		"	"	"	"	
GP-16 (2-3) (KSA0201-10) Soil Sampled: 01/13/09 14:40 Received: 01/14/09 10:17									
Methyl tert-butyl ether	320	200	ug/kg dry	50	9011612	01/16/09	01/19/09	EPA 8260B	RL1
Surrogate: Dibromofluoromethane		100 %	42.6-163		"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

General Chemistry
TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-1 (3-4) (KSA0201-01) Soil Sampled: 01/13/09 09:40 Received: 01/14/09 10:17									
% Solids	78.0	0.01	% by Weight	1	9011508	01/15/09	01/15/09	EPA 160.3	
GP-3 (14-14.5) (KSA0201-02) Soil Sampled: 01/13/09 10:45 Received: 01/14/09 10:17									
% Solids	90.4	0.01	% by Weight	1	9011508	01/15/09	01/15/09	EPA 160.3	
GP-5 (13-14) (KSA0201-03) Soil Sampled: 01/13/09 11:40 Received: 01/14/09 10:17									
% Solids	91.2	0.01	% by Weight	1	9011508	01/15/09	01/15/09	EPA 160.3	
GP-6 (15-15.5) (KSA0201-04) Soil Sampled: 01/13/09 12:05 Received: 01/14/09 10:17									
% Solids	90.7	0.01	% by Weight	1	9011508	01/15/09	01/15/09	EPA 160.3	
GP-9 (8-9) (KSA0201-05) Soil Sampled: 01/13/09 12:45 Received: 01/14/09 10:17									
% Solids	88.2	0.01	% by Weight	1	9011508	01/15/09	01/15/09	EPA 160.3	
GP-11 (12-12.5) (KSA0201-06) Soil Sampled: 01/13/09 13:20 Received: 01/14/09 10:17									
% Solids	88.3	0.01	% by Weight	1	9011508	01/15/09	01/15/09	EPA 160.3	
GP-13 (11-12) (KSA0201-07) Soil Sampled: 01/13/09 13:50 Received: 01/14/09 10:17									
% Solids	89.4	0.01	% by Weight	1	9011508	01/15/09	01/15/09	EPA 160.3	
GP-14 (9-10) (KSA0201-08) Soil Sampled: 01/13/09 14:10 Received: 01/14/09 10:17									
% Solids	90.1	0.01	% by Weight	1	9011508	01/15/09	01/15/09	EPA 160.3	
GP-15 (11-12) (KSA0201-09) Soil Sampled: 01/13/09 14:30 Received: 01/14/09 10:17									
% Solids	85.9	0.01	% by Weight	1	9011508	01/15/09	01/15/09	EPA 160.3	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

General Chemistry
TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-16 (2-3) (KSA0201-10) Soil Sampled: 01/13/09 14:40 Received: 01/14/09 10:17									
% Solids	90.3	0.01	% by Weight	1	9011508	01/15/09	01/15/09	EPA 160.3	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty #38
Project Number: NA
Project Manager: Roger Tartaglia

Reported:
01/26/09 10:47

Notes and Definitions

RL7 Sample required dilution due to high concentrations of target analyte.

RL1 Reporting limit raised due to sample matrix effects.

R2 The RPD exceeded the acceptance limit.

C Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.

A-01 The sample was non-homogenous. Data will be reported from the methanol run, which requires a dilution.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Client: <u>Delaware Valley Health Services</u>		Bill To: <u>State</u>		TAT: <u>STD</u> 5 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <u>530 E. Belmont Ave. 10th Floor</u>		Address: <u>State</u>		DATE RESULTS NEEDED:	
Report to: <u>Dr. V. J. ...</u>		State & Program: <u>PA DEP HWT</u>		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
E-mail: <u>...</u>		Phone #: <u>(610) 337-4412</u>		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Project Name: <u>LAB 013-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30</u>		Phone #: <u>(610) 337-4412</u>		Temp Upon Receipt: <u>0</u>	
Project #/PO#:		Fax #: <u>(610) 337-4413</u>		If Yes, please explain:	
Sampler: <u>DUK</u>		State & Program: <u>PA DEP HWT</u>			
FIELD ID, LOCATION		# of Bottles Preservative Used		ANALYSIS TYPE	
		MeOH NaOH HCl HNO ₃ H ₂ SO ₄ NONE		SAMPLE CONTROL	
		SAMPLE MATRIX		CRACKED BROKEN IMPROPERLY SEALED	
DATE COLLECTED		TIME COLLECTED		LABORATORY ID NUMBER	
1	CP-1 (3-4)	5	12	14	15A0201-01
PID: 71555					
2	CP-3 (14-14.5)	5	12	14	02
PID: 71555					
3	CP-5 (15-14)	5	12	14	03
PID: 71555					
4	CP-6 (15-15.5)	5	12	14	04
PID: 684					
5	CP-9 (8-9)	5	12	14	05
PID: 168.3					
6	CP-11 (12-12.5)	5	12	14	06
PID: 355.5					
7	CP-13 (11-12)	5	12	14	07
PID: 32					
8	CP-14 (9-10)	5	12	14	08
PID: 36					
9	CP-15 (11-12)	5	12	14	09
PID: 0.0					
10	CP-16 (2-3)	5	12	14	10
PID: 71555					
RELINQUISHED		RECEIVED		DATE	
RELINQUISHED		RECEIVED		TIME	
RELINQUISHED		RECEIVED		DATE	
RELINQUISHED		RECEIVED		TIME	
COMMENTS:		PAGE		OF	

04 February 2009

CENTERPOINT TANK SERVICES, INC

Danielle Varnes
536 Benjamin Franklin Highway
Douglassville, PA 19518

RE: Liberty Oil #38 - Tamaqua

Laboratory ID #: KSA0442

Enclosed are the results of analyses for samples received by the laboratory on 01/28/09 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "O. Burgos", is written over a light gray rectangular background.

Oswaldo Burgos
Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP-17 (12-13.5)	KSA0442-01	Soil	01/27/09 09:00	01/28/09 14:15
GP-18 (3-4)	KSA0442-02	Soil	01/27/09 09:20	01/28/09 14:15
GP-19 (12-13)	KSA0442-03	Soil	01/27/09 10:00	01/28/09 14:15
GP-21 (5-6)	KSA0442-04	Soil	01/27/09 10:30	01/28/09 14:15
GP-23 (8-9)	KSA0442-05	Soil	01/27/09 11:00	01/28/09 14:15
GP-24 (14-15.5)	KSA0442-06	Soil	01/27/09 11:25	01/28/09 14:15
GP-27 (13-14)	KSA0442-07	Soil	01/27/09 12:20	01/28/09 14:15
GP-28 (14-15.5)	KSA0442-08	Soil	01/27/09 12:45	01/28/09 14:15
GP-29 (9-10.5)	KSA0442-09	Soil	01/27/09 13:05	01/28/09 14:15
GP-31 (3-4)	KSA0442-10	Soil	01/27/09 13:25	01/28/09 14:15
GP-32 (3-4)	KSA0442-11	Soil	01/27/09 13:40	01/28/09 14:15
GP-33 (12-13.5)	KSA0442-12	Soil	01/27/09 14:00	01/28/09 14:15
GP-35 (7-8)	KSA0442-13	Soil	01/27/09 14:20	01/28/09 14:15

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

Total Metals by EPA 6000/7000 Series Methods

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-17 (12-13.5) (KSA0442-01) Soil Sampled: 01/27/09 09:00 Received: 01/28/09 14:15									
Lead	11	1.0	mg/kg dry	1	9013002	01/30/09	01/30/09	EPA 6010B	
GP-18 (3-4) (KSA0442-02) Soil Sampled: 01/27/09 09:20 Received: 01/28/09 14:15									
Lead	98	1.4	mg/kg dry	1	9013002	01/30/09	01/30/09	EPA 6010B	
GP-19 (12-13) (KSA0442-03) Soil Sampled: 01/27/09 10:00 Received: 01/28/09 14:15									
Lead	7.7	1.0	mg/kg dry	1	9013002	01/30/09	01/30/09	EPA 6010B	
GP-21 (5-6) (KSA0442-04) Soil Sampled: 01/27/09 10:30 Received: 01/28/09 14:15									
Lead	13	1.0	mg/kg dry	1	9013002	01/30/09	01/30/09	EPA 6010B	
GP-23 (8-9) (KSA0442-05) Soil Sampled: 01/27/09 11:00 Received: 01/28/09 14:15									
Lead	79	1.0	mg/kg dry	1	9013002	01/30/09	01/30/09	EPA 6010B	
GP-24 (14-15.5) (KSA0442-06) Soil Sampled: 01/27/09 11:25 Received: 01/28/09 14:15									
Lead	6.6	1.0	mg/kg dry	1	9013002	01/30/09	01/30/09	EPA 6010B	
GP-27 (13-14) (KSA0442-07) Soil Sampled: 01/27/09 12:20 Received: 01/28/09 14:15									
Lead	9.0	1.0	mg/kg dry	1	9013002	01/30/09	01/30/09	EPA 6010B	
GP-28 (14-15.5) (KSA0442-08) Soil Sampled: 01/27/09 12:45 Received: 01/28/09 14:15									
Lead	7.9	1.0	mg/kg dry	1	9013002	01/30/09	01/30/09	EPA 6010B	
GP-29 (9-10.5) (KSA0442-09) Soil Sampled: 01/27/09 13:05 Received: 01/28/09 14:15									
Lead	7.5	1.0	mg/kg dry	1	9013002	01/30/09	01/30/09	EPA 6010B	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

Total Metals by EPA 6000/7000 Series Methods

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-31 (3-4) (KSA0442-10) Soil Sampled: 01/27/09 13:25 Received: 01/28/09 14:15									
Lead	7.4	1.0	mg/kg dry	1	9013002	01/30/09	01/30/09	EPA 6010B	
GP-32 (3-4) (KSA0442-11) Soil Sampled: 01/27/09 13:40 Received: 01/28/09 14:15									
Lead	6.3	1.3	mg/kg dry	1	9013002	01/30/09	01/30/09	EPA 6010B	
GP-33 (12-13.5) (KSA0442-12) Soil Sampled: 01/27/09 14:00 Received: 01/28/09 14:15									
Lead	8.3	1.0	mg/kg dry	1	9013002	01/30/09	01/30/09	EPA 6010B	
GP-35 (7-8) (KSA0442-13) Soil Sampled: 01/27/09 14:20 Received: 01/28/09 14:15									
Lead	25	1.0	mg/kg dry	1	9013002	01/30/09	01/30/09	EPA 6010B	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

Volatile Organic Compounds by EPA Method 5035/8260B

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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GP-17 (12-13.5) (KSA0442-01) Soil Sampled: 01/27/09 09:00 Received: 01/28/09 14:15

Benzene	ND	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	ND	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	4.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
Xylenes (total)	ND	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		100 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	33.4-187		"	"	"	"	

GP-18 (3-4) (KSA0442-02) Soil Sampled: 01/27/09 09:20 Received: 01/28/09 14:15

Benzene	ND	5.4	ug/kg dry	1	9012915	01/29/09	02/02/09	EPA 8260B	
1,2-Dibromoethane	ND	5.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.4	"	"	"	"	"	"	
Ethylbenzene	ND	5.4	"	"	"	"	"	"	
Isopropylbenzene	ND	5.4	"	"	"	"	"	"	
Naphthalene	ND	6.8	"	"	"	"	"	"	
Toluene	ND	5.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.4	"	"	"	"	"	"	
Xylenes (total)	ND	16	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		114 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		98.9 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	33.4-187		"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

Volatile Organic Compounds by EPA Method 5035/8260B

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-19 (12-13) (KSA0442-03) Soil Sampled: 01/27/09 10:00 Received: 01/28/09 14:15									
RL1									
Benzene	ND	200	ug/kg dry	50	9012915	01/29/09	01/31/09	EPA 8260B	
1,2-Dibromoethane	ND	200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	200	"	"	"	"	"	"	
Ethylbenzene	3000	200	"	"	"	"	"	"	
Isopropylbenzene	4200	200	"	"	"	"	"	"	
Naphthalene	1900	250	"	"	"	"	"	"	
Toluene	ND	200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	23000	200	"	"	"	"	"	"	
Xylenes (total)	11000	600	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.0 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		104 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		107 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	33.4-187		"	"	"	"	
GP-19 (12-13) (KSA0442-03RE1) Soil Sampled: 01/27/09 10:00 Received: 01/28/09 14:15									
RL7									
1,2,4-Trimethylbenzene	58000	2000	ug/kg dry	500	9012915	01/29/09	01/31/09	EPA 8260B	
Surrogate: Dibromofluoromethane		98.8 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		105 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		100 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	33.4-187		"	"	"	"	
GP-21 (5-6) (KSA0442-04) Soil Sampled: 01/27/09 10:30 Received: 01/28/09 14:15									
Benzene	ND	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	ND	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	4.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
Xylenes (total)	ND	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		118 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		125 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		141 %	41.6-167		"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

Volatile Organic Compounds by EPA Method 5035/8260B

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-21 (5-6) (KSA0442-04RE1) Soil Sampled: 01/27/09 10:30 Received: 01/28/09 14:15									A-01

Naphthalene	ND	250	ug/kg dry	50	9012915	01/29/09	02/03/09	EPA 8260B	
1,2,4-Trimethylbenzene	ND	200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	200	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		101 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	33.4-187		"	"	"	"	

GP-23 (8-9) (KSA0442-05) Soil Sampled: 01/27/09 11:00 Received: 01/28/09 14:15

Benzene	ND	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	ND	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	4.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
Xylenes (total)	ND	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		110 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		102 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	33.4-187		"	"	"	"	

GP-24 (14-15.5) (KSA0442-06) Soil Sampled: 01/27/09 11:25 Received: 01/28/09 14:15

Benzene	ND	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	6.4	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	4.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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GP-24 (14-15.5) (KSA0442-06) Soil Sampled: 01/27/09 11:25 Received: 01/28/09 14:15

1,3,5-Trimethylbenzene	ND	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
Xylenes (total)	ND	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	33.4-187		"	"	"	"	

GP-27 (13-14) (KSA0442-07) Soil Sampled: 01/27/09 12:20 Received: 01/28/09 14:15

Benzene	4.1	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	7.8	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	4.0	"	"	"	"	"	"	
Naphthalene	6.0	5.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	5.0	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
Xylenes (total)	ND	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		99.9 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		104 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		101 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	33.4-187		"	"	"	"	

GP-28 (14-15.5) (KSA0442-08) Soil Sampled: 01/27/09 12:45 Received: 01/28/09 14:15

Benzene	88	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	270	4.0	"	"	"	"	"	"	
Isopropylbenzene	12	4.0	"	"	"	"	"	"	
Naphthalene	20	5.0	"	"	"	"	"	"	
Toluene	34	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	190	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	60	4.0	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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GP-28 (14-15.5) (KSA0442-08) Soil Sampled: 01/27/09 12:45 Received: 01/28/09 14:15

Xylenes (total)	610	12	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
Surrogate: Dibromofluoromethane		99.8 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		105 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		122 %	33.4-187		"	"	"	"	

GP-29 (9-10.5) (KSA0442-09) Soil Sampled: 01/27/09 13:05 Received: 01/28/09 14:15

Benzene	140	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	48	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	4.0	"	"	"	"	"	"	
Naphthalene	30	5.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	20	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	12	4.0	"	"	"	"	"	"	
Xylenes (total)	95	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		112 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		101 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	33.4-187		"	"	"	"	

GP-31 (3-4) (KSA0442-10) Soil Sampled: 01/27/09 13:25 Received: 01/28/09 14:15

Benzene	100	4.0	ug/kg dry	1	9012915	01/29/09	02/02/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	94	4.0	"	"	"	"	"	"	
Isopropylbenzene	91	4.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Toluene	12	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	330	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	48.2-167		"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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GP-31 (3-4) (KSA0442-10) Soil Sampled: 01/27/09 13:25 Received: 01/28/09 14:15

Surrogate: Toluene-d8	109 %	41.6-167	9012915	01/29/09	02/02/09	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	134 %	33.4-187	"	"	"	"	

GP-31 (3-4) (KSA0442-10RE1) Soil Sampled: 01/27/09 13:25 Received: 01/28/09 14:15

RL7

1,2,4-Trimethylbenzene	1600	200	ug/kg dry	50	9012915	01/29/09	02/02/09	EPA 8260B	
Xylenes (total)	2100	600	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	100 %	42.6-163	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %	48.2-167	"	"	"	"	"	"	
Surrogate: Toluene-d8	100 %	41.6-167	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	33.4-187	"	"	"	"	"	"	

GP-32 (3-4) (KSA0442-11) Soil Sampled: 01/27/09 13:40 Received: 01/28/09 14:15

Benzene	150	5.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	63	5.0	"	"	"	"	"	"	
Isopropylbenzene	26	5.0	"	"	"	"	"	"	
Toluene	14	5.0	"	"	"	"	"	"	
Xylenes (total)	790	15	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	102 %	42.6-163	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	104 %	48.2-167	"	"	"	"	"	"	
Surrogate: Toluene-d8	120 %	41.6-167	"	"	"	"	"	"	

GP-32 (3-4) (KSA0442-11RE1) Soil Sampled: 01/27/09 13:40 Received: 01/28/09 14:15

RL1

Naphthalene	ND	310	ug/kg dry	50	9012915	01/29/09	02/02/09	EPA 8260B	
1,2,4-Trimethylbenzene	280	250	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	98.5 %	42.6-163	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	100 %	48.2-167	"	"	"	"	"	"	
Surrogate: Toluene-d8	102 %	41.6-167	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	33.4-187	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

Volatile Organic Compounds by EPA Method 5035/8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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GP-33 (12-13.5) (KSA0442-12) Soil Sampled: 01/27/09 14:00 Received: 01/28/09 14:15

Benzene	35	4.0	ug/kg dry	1	9012915	01/29/09	01/31/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	78	4.0	"	"	"	"	"	"	
Isopropylbenzene	21	4.0	"	"	"	"	"	"	
Naphthalene	81	5.0	"	"	"	"	"	"	
Toluene	210	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	530	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	160	4.0	"	"	"	"	"	"	
Xylenes (total)	560	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		109 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		101 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	33.4-187		"	"	"	"	

GP-35 (7-8) (KSA0442-13) Soil Sampled: 01/27/09 14:20 Received: 01/28/09 14:15

Benzene	ND	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
1,2-Dibromoethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
Ethylbenzene	ND	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	4.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
Xylenes (total)	ND	12	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	42.6-163		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		111 %	48.2-167		"	"	"	"	
Surrogate: Toluene-d8		100 %	41.6-167		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	33.4-187		"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

Volatile Organic Compounds by EPA Method 8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-17 (12-13.5) (KSA0442-01) Soil Sampled: 01/27/09 09:00 Received: 01/28/09 14:15									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
Surrogate: Dibromofluoromethane		102 %	42.6-163		"	"	"	"	
GP-18 (3-4) (KSA0442-02) Soil Sampled: 01/27/09 09:20 Received: 01/28/09 14:15									
Methyl tert-butyl ether	ND	5.4	ug/kg dry	1	9012915	01/29/09	02/02/09	EPA 8260B	
Surrogate: Dibromofluoromethane		105 %	42.6-163		"	"	"	"	
GP-19 (12-13) (KSA0442-03) Soil Sampled: 01/27/09 10:00 Received: 01/28/09 14:15									
Methyl tert-butyl ether	ND	200	ug/kg dry	50	9012915	01/29/09	01/31/09	EPA 8260B	RLI
Surrogate: Dibromofluoromethane		98.0 %	42.6-163		"	"	"	"	
GP-21 (5-6) (KSA0442-04) Soil Sampled: 01/27/09 10:30 Received: 01/28/09 14:15									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
Surrogate: Dibromofluoromethane		118 %	42.6-163		"	"	"	"	
GP-23 (8-9) (KSA0442-05) Soil Sampled: 01/27/09 11:00 Received: 01/28/09 14:15									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
Surrogate: Dibromofluoromethane		105 %	42.6-163		"	"	"	"	
GP-24 (14-15.5) (KSA0442-06) Soil Sampled: 01/27/09 11:25 Received: 01/28/09 14:15									
Methyl tert-butyl ether	4.3	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
Surrogate: Dibromofluoromethane		102 %	42.6-163		"	"	"	"	
GP-27 (13-14) (KSA0442-07) Soil Sampled: 01/27/09 12:20 Received: 01/28/09 14:15									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
Surrogate: Dibromofluoromethane		99.9 %	42.6-163		"	"	"	"	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

Volatile Organic Compounds by EPA Method 8260B

TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-28 (14-15.5) (KSA0442-08RE1) Soil Sampled: 01/27/09 12:45 Received: 01/28/09 14:15									
Methyl tert-butyl ether	2400	200	ug/kg dry	50	9012915	01/29/09	02/02/09	EPA 8260B	RL7
<i>Surrogate: Dibromofluoromethane</i>		<i>100 %</i>	<i>42.6-163</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
GP-29 (9-10.5) (KSA0442-09) Soil Sampled: 01/27/09 13:05 Received: 01/28/09 14:15									
Methyl tert-butyl ether	510	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		<i>104 %</i>	<i>42.6-163</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
GP-31 (3-4) (KSA0442-10) Soil Sampled: 01/27/09 13:25 Received: 01/28/09 14:15									
Methyl tert-butyl ether	89	4.0	ug/kg dry	1	9012915	01/29/09	02/02/09	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		<i>102 %</i>	<i>42.6-163</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
GP-32 (3-4) (KSA0442-11) Soil Sampled: 01/27/09 13:40 Received: 01/28/09 14:15									
Methyl tert-butyl ether	610	5.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		<i>102 %</i>	<i>42.6-163</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
GP-33 (12-13.5) (KSA0442-12) Soil Sampled: 01/27/09 14:00 Received: 01/28/09 14:15									
Methyl tert-butyl ether	ND	4.0	ug/kg dry	1	9012915	01/29/09	01/31/09	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		<i>101 %</i>	<i>42.6-163</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
GP-35 (7-8) (KSA0442-13) Soil Sampled: 01/27/09 14:20 Received: 01/28/09 14:15									
Methyl tert-butyl ether	21	4.0	ug/kg dry	1	9012915	01/29/09	01/30/09	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		<i>103 %</i>	<i>42.6-163</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

General Chemistry
TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-17 (12-13.5) (KSA0442-01) Soil Sampled: 01/27/09 09:00 Received: 01/28/09 14:15									
% Solids	89.6	0.01	% by Weight	1	9012908	01/29/09	01/29/09	EPA 160.3	
GP-18 (3-4) (KSA0442-02) Soil Sampled: 01/27/09 09:20 Received: 01/28/09 14:15									
% Solids	73.5	0.01	% by Weight	1	9012908	01/29/09	01/29/09	EPA 160.3	
GP-19 (12-13) (KSA0442-03) Soil Sampled: 01/27/09 10:00 Received: 01/28/09 14:15									
% Solids	89.6	0.01	% by Weight	1	9012908	01/29/09	01/29/09	EPA 160.3	
GP-21 (5-6) (KSA0442-04) Soil Sampled: 01/27/09 10:30 Received: 01/28/09 14:15									
% Solids	89.8	0.01	% by Weight	1	9012908	01/29/09	01/29/09	EPA 160.3	
GP-23 (8-9) (KSA0442-05) Soil Sampled: 01/27/09 11:00 Received: 01/28/09 14:15									
% Solids	80.2	0.01	% by Weight	1	9012908	01/29/09	01/29/09	EPA 160.3	
GP-24 (14-15.5) (KSA0442-06) Soil Sampled: 01/27/09 11:25 Received: 01/28/09 14:15									
% Solids	86.9	0.01	% by Weight	1	9012908	01/29/09	01/29/09	EPA 160.3	
GP-27 (13-14) (KSA0442-07) Soil Sampled: 01/27/09 12:20 Received: 01/28/09 14:15									
% Solids	90.6	0.01	% by Weight	1	9012908	01/29/09	01/29/09	EPA 160.3	
GP-28 (14-15.5) (KSA0442-08) Soil Sampled: 01/27/09 12:45 Received: 01/28/09 14:15									
% Solids	88.1	0.01	% by Weight	1	9012908	01/29/09	01/29/09	EPA 160.3	
GP-29 (9-10.5) (KSA0442-09) Soil Sampled: 01/27/09 13:05 Received: 01/28/09 14:15									
% Solids	90.9	0.01	% by Weight	1	9012908	01/29/09	01/29/09	EPA 160.3	

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

General Chemistry
TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-31 (3-4) (KSA0442-10) Soil Sampled: 01/27/09 13:25 Received: 01/28/09 14:15									
% Solids	85.0	0.01	% by Weight	1	9012908	01/29/09	01/29/09	EPA 160.3	
GP-32 (3-4) (KSA0442-11) Soil Sampled: 01/27/09 13:40 Received: 01/28/09 14:15									
% Solids	79.8	0.01	% by Weight	1	9012908	01/29/09	01/29/09	EPA 160.3	
GP-33 (12-13.5) (KSA0442-12) Soil Sampled: 01/27/09 14:00 Received: 01/28/09 14:15									
% Solids	91.0	0.01	% by Weight	1	9012908	01/29/09	01/29/09	EPA 160.3	
GP-35 (7-8) (KSA0442-13) Soil Sampled: 01/27/09 14:20 Received: 01/28/09 14:15									
% Solids	85.1	0.01	% by Weight	1	9012908	01/29/09	01/29/09	EPA 160.3	

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC
536 Benjamin Franklin Highway
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua
Project Number: NA
Project Manager: Danielle Varnes

Reported:
02/04/09 16:23

Notes and Definitions

RL7 Sample required dilution due to high concentrations of target analyte.

RL1 Reporting limit raised due to sample matrix effects.

A-01 Both DI vials were previously analyzed with an Internal Standard recovery below the limit. The sample was prepared from the methanol vial, which requires a dilution.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



1008 W. Ninth Avenue
King of Prussia, PA 19406
(610) 337-9992
FAX (610) 337-9939

1090 King Georges Post Rd
Suite 803
Edison, NJ 08837
(732) 661-0777
FAX (732) 661-0305

Client: UNITED TOWNSHIP SERVICES		Bill To: SAVIC		TAT: STD 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY 24 HRS.	
Address: 438 E. 6th Street, Fairbury, NY		Address: SAVIC		DATE RESULTS NEEDED:	
Report to: Deborah L. Lick SA 19518 Phone #: (610) 337-4471 E-mail: deborah.lick@unitedtownship.com Fax #: (610) 337-4472		State & Program: PA DEP WTR		Temp. Upon Receipt: 0 C	
Project Name: LIBRARY #25 THUNDERBOLT		Phone #: SAVIC		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Project #/PO#:		Fax #:		If Yes, please explain:	
Sampler: DUL		# of Bottles Preservative Used		ANALYSIS TYPE	
FIELD ID, LOCATION		SAMPLE MATRIX		SAMPLE CONTROL	
DATE COLLECTED		TIME COLLECTED		CRACKED BROKEN IMPROPERLY SEALED	
LABORATORY ID NUMBER		TOTAL # OF BOTTLES		LABORATORY ID NUMBER	
1. C.P. 17 (12-13.5) PID: 1.3		1		KSAC42-01	
2. C.P. 18 (3-4) PID: 1.9		1		02	
3. C.P. 19 (12-13) PID: 902		1		03	
4. C.P. 21 (5-6) PID: 1.5		1		04	
5. C.P. 23 (8-9) PID: 0.7		1		05	
6. C.P. 24 (14-15.5) PID: 3.7		1		06	
7. C.P. 27 (13-14) PID: 15.0		1		07	
8. C.P. 28 (14-15.5) PID: 34.7		1		08	
9. C.P. 29 (9-10.5) PID: 47.6		1		09	
10. C.P. 31 (3-4) PID: 19.7		1		10	
RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED	DATE	TIME
Al 29	Frank	1/29/09	1/29/09		
RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED	DATE	TIME
COMMENTS:					
PAGE 1 OF 2					

CHAIN OF CUSTODY REPORT

1008 W. Ninth Avenue
King of Prussia, PA 19406
(610) 337-9992
FAX (610) 337-9939

1090 King Georges Post Rd
Suite 803
Edison, NJ 08837
(732) 661-0777
FAX (732) 661-0305

Client: <u>Capital Power Mobile Services</u>		Bill To: <u>State & Program: PA DEP W-1</u>		TAT: <u>5 DAY</u> 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <u>State & Program: PA DEP W-1</u>		Address: <u>State & Program: PA DEP W-1</u>		Received: <input type="checkbox"/> Ice <input type="checkbox"/> ambient	
Date Collected: <u>1/27/09 1340</u>		Date Collected: <u>1/27/09 1400</u>		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Time Collected: <u>1340</u>		Time Collected: <u>1400</u>		Temp. Upon Receipt: <u>8°C</u>	
Project Name: <u>LIABILITY EVALUATION - TUNNEL</u>		Project Name: <u>LIABILITY EVALUATION - TUNNEL</u>		Temp. Upon Receipt: <u>8°C</u>	
Project #/PO#: <u>1000</u>		Project #/PO#: <u>1000</u>		Temp. Upon Receipt: <u>8°C</u>	
Sampler: <u>1000</u>		Sampler: <u>1000</u>		Temp. Upon Receipt: <u>8°C</u>	
Field ID, Location		Field ID, Location		Field ID, Location	
PID: <u>2003</u>		PID: <u>2003</u>		PID: <u>2003</u>	
PID: <u>1003</u>		PID: <u>1003</u>		PID: <u>1003</u>	
PID: <u>3003</u>		PID: <u>3003</u>		PID: <u>3003</u>	
PID: <u>4003</u>		PID: <u>4003</u>		PID: <u>4003</u>	
PID: <u>5003</u>		PID: <u>5003</u>		PID: <u>5003</u>	
PID: <u>6003</u>		PID: <u>6003</u>		PID: <u>6003</u>	
PID: <u>7003</u>		PID: <u>7003</u>		PID: <u>7003</u>	
PID: <u>8003</u>		PID: <u>8003</u>		PID: <u>8003</u>	
PID: <u>9003</u>		PID: <u>9003</u>		PID: <u>9003</u>	
PID: <u>10003</u>		PID: <u>10003</u>		PID: <u>10003</u>	
PID: <u>11003</u>		PID: <u>11003</u>		PID: <u>11003</u>	
PID: <u>12003</u>		PID: <u>12003</u>		PID: <u>12003</u>	
PID: <u>13003</u>		PID: <u>13003</u>		PID: <u>13003</u>	
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PID: <u>162003</</u>					



Certificate of Analysis

Project Name: **TAMAQUA - PA SITE**

Workorder: **9827287**

Purchase Order:

Workorder ID: **Liberty Oil #38**

Mr. Pat Crawford
Center Point Tank Services
536 E. Benjamin Franklin Hwy
Douglassville, PA 19518

January 29, 2010

Dear Mr. Crawford,

Enclosed are the analytical results for samples received by the laboratory on Monday, January 18, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Laboratory Manager



SAMPLE SUMMARY

Workorder: 9827287 Liberty Oil #38

Discard Date: 02/12/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9827287001	LO-1[3-4]	Solid	1/14/10 09:13	1/18/10 18:44	Pat Crawford
9827287002	LO-1[7-8]	Solid	1/14/10 09:27	1/18/10 18:44	Pat Crawford
9827287003	LO-1[10.5-11.2]	Solid	1/14/10 09:35	1/18/10 18:44	Pat Crawford
9827287004	LO-2[6.5-7]	Solid	1/14/10 09:43	1/18/10 18:44	Pat Crawford
9827287005	LO-3[11-12]	Solid	1/14/10 10:14	1/18/10 18:44	Pat Crawford
9827287006	LO-4[5-6]	Solid	1/14/10 10:31	1/18/10 18:44	Pat Crawford
9827287007	LO-5[7-8]	Solid	1/14/10 11:02	1/18/10 18:44	Pat Crawford
9827287008	LO-6[5-6]	Solid	1/14/10 11:34	1/18/10 18:44	Pat Crawford
9827287009	LO-7[14-15]	Solid	1/14/10 12:03	1/18/10 18:44	Pat Crawford
9827287010	LO-8[6.5-7.5]	Solid	1/14/10 12:27	1/18/10 18:44	Pat Crawford
9827287011	LO-9[11-12]	Solid	1/14/10 12:41	1/18/10 18:44	Pat Crawford
9827287012	LO-10[5-6]	Solid	1/14/10 13:08	1/18/10 18:44	Pat Crawford
9827287013	LO-13[3-4]	Solid	1/14/10 13:52	1/18/10 18:44	Pat Crawford
9827287014	LO-13[11-12]	Solid	1/14/10 14:09	1/18/10 18:44	Pat Crawford
9827287015	LO-14[9-10]	Solid	1/14/10 14:41	1/18/10 18:44	Pat Crawford
9827287016	LO-14[12-13]	Solid	1/14/10 14:50	1/18/10 18:44	Pat Crawford
9827287017	LO-15[3-4]	Solid	1/14/10 15:10	1/18/10 18:44	Pat Crawford
9827287018	LO-16[5-6]	Solid	1/14/10 15:25	1/18/10 18:44	Pat Crawford
9827287019	LO-16[11-12]	Solid	1/14/10 15:37	1/18/10 18:44	Pat Crawford
9827287020	LO-17[3-4]	Solid	1/14/10 15:53	1/18/10 18:44	Pat Crawford
9827287021	LO-17[5-6]	Solid	1/14/10 16:01	1/18/10 18:44	Pat Crawford
9827287022	LO-18[4-5]	Solid	1/14/10 16:08	1/18/10 18:44	Pat Crawford
9827287023	LO-19[3-4]	Solid	1/14/10 16:23	1/18/10 18:44	Pat Crawford

Workorder Comments:



SAMPLE SUMMARY

Workorder: 9827287 Liberty Oil #38

Discard Date: 02/12/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
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Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287001

Date Collected: 1/14/2010 09:13

Matrix: Solid

Sample ID: LO-1[3-4]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	63.0		ug/kg	1.3	8260/5035	1/14/10	TMP	1/20/10 06:32	DD	C
1,2-Dibromoethane	ND		ug/kg	1.3	8260/5035	1/14/10	TMP	1/20/10 06:32	DD	C
1,2-Dichloroethane	ND		ug/kg	1.3	8260/5035	1/14/10	TMP	1/20/10 06:32	DD	C
Ethylbenzene	84.3		ug/kg	1.3	8260/5035	1/14/10	TMP	1/20/10 06:32	DD	C
Isopropylbenzene	35.4		ug/kg	1.3	8260/5035	1/14/10	TMP	1/20/10 06:32	DD	C
Methyl t-Butyl Ether	7.1		ug/kg	1.3	8260/5035	1/14/10	TMP	1/20/10 06:32	DD	C
Naphthalene	101		ug/kg	1.3	8260/5035	1/14/10	TMP	1/20/10 06:32	DD	C
Toluene	107		ug/kg	1.3	8260/5035	1/14/10	TMP	1/20/10 06:32	DD	C
Total Xylenes	204		ug/kg	3.9	8260/5035	1/14/10	TMP	1/20/10 06:32	DD	C
1,2,4-Trimethylbenzene	3750		ug/kg	23.2	8260/5035	1/14/10	TMP	1/27/10 14:24	TMP	A
1,3,5-Trimethylbenzene	1710		ug/kg	23.2	8260/5035	1/14/10	TMP	1/27/10 14:24	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	56.3	1	%	71-146	8260/5035	1/14/10	TMP	1/27/10 14:24	TMP	A
4-Bromofluorobenzene (S)	87.1		%	46-138	8260/5035	1/14/10	TMP	1/27/10 14:24	TMP	A
Toluene-d8 (S)	70.9		%	54-141	8260/5035	1/14/10	TMP	1/27/10 14:24	TMP	A
Dibromofluoromethane (S)	65.2		%	42-143	8260/5035	1/14/10	TMP	1/27/10 14:24	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	97		%	56-124	8260/5035	1/14/10	TMP	1/20/10 06:32	DD	C
Toluene-d8 (S)	101		%	59-131	8260/5035	1/14/10	TMP	1/20/10 06:32	DD	C
Dibromofluoromethane (S)	89.5		%	62-123	8260/5035	1/14/10	TMP	1/20/10 06:32	DD	C
4-Bromofluorobenzene (S)	103		%	51-128	8260/5035	1/14/10	TMP	1/20/10 06:32	DD	C
WET CHEMISTRY										
Moisture	7.0		%	0.1	SM20-2540 G			1/19/10 03:30	LJF	D
Total Solids	93.0		%	0.1	SM20-2540 G			1/19/10 03:30	LJF	D
METALS										
Lead, Total	21.0		mg/kg	1.8	SW846 6010C	1/19/10	MNP	1/20/10 03:50	SRT	D1

Sample Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

One or more of the method 8260 surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287001

Date Collected: 1/14/2010 09:13

Matrix: Solid

Sample ID: LO-1[3-4]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287002

Date Collected: 1/14/2010 09:27

Matrix: Solid

Sample ID: LO-1[7-8]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	1.7	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
1,2-Dibromoethane	ND		ug/kg	1.7	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
1,2-Dichloroethane	ND		ug/kg	1.7	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
Ethylbenzene	ND		ug/kg	1.7	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
Isopropylbenzene	ND		ug/kg	1.7	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
Methyl t-Butyl Ether	ND		ug/kg	1.7	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
Naphthalene	ND		ug/kg	1.7	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
Toluene	ND		ug/kg	1.7	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
Total Xylenes	ND		ug/kg	5.0	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	86.8		%	56-124	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
4-Bromofluorobenzene (S)	79.8		%	51-128	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
Dibromofluoromethane (S)	84.3		%	62-123	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
Toluene-d8 (S)	79.3		%	59-131	8260/5035	1/14/10	TMP	1/19/10 10:13	MES	B
WET CHEMISTRY										
Moisture	14.0		%	0.1	SM20-2540 G			1/19/10 03:30	LJF	D
Total Solids	86.0		%	0.1	SM20-2540 G			1/19/10 03:30	LJF	D
METALS										
Lead, Total	9.8		mg/kg	2.3	SW846 6010C	1/19/10	MNP	1/20/10 03:54	SRT	D1

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287003
Sample ID: LO-1[10.5-11.2]

Date Collected: 1/14/2010 09:35
Date Received: 1/18/2010 18:44

Matrix: Solid

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	4.1		ug/kg	1.4	8260/5035	1/14/10	TMP	1/19/10 16:33	MES	B
1,2-Dibromoethane	ND		ug/kg	1.4	8260/5035	1/14/10	TMP	1/19/10 16:33	MES	B
1,2-Dichloroethane	ND		ug/kg	1.4	8260/5035	1/14/10	TMP	1/19/10 16:33	MES	B
Ethylbenzene	120		ug/kg	1.4	8260/5035	1/14/10	TMP	1/19/10 16:33	MES	B
Isopropylbenzene	7.0		ug/kg	1.4	8260/5035	1/14/10	TMP	1/19/10 16:33	MES	B
Methyl t-Butyl Ether	ND		ug/kg	1.4	8260/5035	1/14/10	TMP	1/19/10 16:33	MES	B
Naphthalene	114		ug/kg	1.4	8260/5035	1/14/10	TMP	1/19/10 16:33	MES	B
Toluene	22.5		ug/kg	1.4	8260/5035	1/14/10	TMP	1/19/10 16:33	MES	B
Total Xylenes	2190		ug/kg	98.2	8260/5035	1/14/10	TMP	1/22/10 18:02	TMP	A
1,2,4-Trimethylbenzene	906		ug/kg	32.7	8260/5035	1/14/10	TMP	1/22/10 18:02	TMP	A
1,3,5-Trimethylbenzene	58.6		ug/kg	1.4	8260/5035	1/14/10	TMP	1/19/10 16:33	MES	B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	86		%	71-146	8260/5035	1/14/10	TMP	1/22/10 18:02	TMP	A
Dibromofluoromethane (S)	98		%	42-143	8260/5035	1/14/10	TMP	1/22/10 18:02	TMP	A
Toluene-d8 (S)	108		%	54-141	8260/5035	1/14/10	TMP	1/22/10 18:02	TMP	A
4-Bromofluorobenzene (S)	138		%	46-138	8260/5035	1/14/10	TMP	1/22/10 18:02	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	96.1		%	56-124	8260/5035	1/14/10	TMP	1/19/10 16:33	MES	B
Toluene-d8 (S)	105		%	59-131	8260/5035	1/14/10	TMP	1/19/10 16:33	MES	B
4-Bromofluorobenzene (S)	87.6		%	51-128	8260/5035	1/14/10	TMP	1/19/10 16:33	MES	B
Dibromofluoromethane (S)	80.8		%	62-123	8260/5035	1/14/10	TMP	1/19/10 16:33	MES	B
WET CHEMISTRY										
Moisture	13.1		%	0.1	SM20-2540 G			1/19/10 03:30	LJF	D
Total Solids	86.9		%	0.1	SM20-2540 G			1/19/10 03:30	LJF	D
METALS										
Lead, Total	8.2		mg/kg	1.9	SW846 6010C	1/19/10	MNP	1/20/10 03:57	SRT	D1

Sample Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits, indicating a significant matrix interference.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287004

Date Collected: 1/14/2010 09:43

Matrix: Solid

Sample ID: LO-2[6.5-7]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	1.6	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
1,2-Dibromoethane	ND		ug/kg	1.6	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
1,2-Dichloroethane	ND		ug/kg	1.6	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
Ethylbenzene	ND		ug/kg	1.6	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
Isopropylbenzene	ND		ug/kg	1.6	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
Methyl t-Butyl Ether	ND		ug/kg	1.6	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
Naphthalene	ND		ug/kg	1.6	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
Toluene	ND		ug/kg	1.6	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
Total Xylenes	ND		ug/kg	4.7	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	74.9		%	56-124	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
4-Bromofluorobenzene (S)	81.6		%	51-128	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
Dibromofluoromethane (S)	84.1		%	62-123	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
Toluene-d8 (S)	97.8		%	59-131	8260/5035	1/14/10	TMP	1/19/10 10:42	MES	B
WET CHEMISTRY										
Moisture	9.7		%	0.1	SM20-2540 G			1/19/10 03:30	LJF	D
Total Solids	90.3		%	0.1	SM20-2540 G			1/19/10 03:30	LJF	D
METALS										
Lead, Total	7.6		mg/kg	2.1	SW846 6010C	1/19/10	MNP	1/20/10 04:01	SRT	D1

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287005

Date Collected: 1/14/2010 10:14

Matrix: Solid

Sample ID: LO-3[11-12]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
1,2-Dibromoethane	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
1,2-Dichloroethane	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
Ethylbenzene	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
Isopropylbenzene	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
Methyl t-Butyl Ether	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
Naphthalene	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
Toluene	1.6		ug/kg	1.5	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
Total Xylenes	ND		ug/kg	4.6	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
1,2,4-Trimethylbenzene	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
1,3,5-Trimethylbenzene	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	80.3		%	56-124	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
4-Bromofluorobenzene (S)	84.3		%	51-128	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
Dibromofluoromethane (S)	80.5		%	62-123	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
Toluene-d8 (S)	97.1		%	59-131	8260/5035	1/14/10	TMP	1/20/10 03:25	DD	C
WET CHEMISTRY										
Moisture	11.5		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	88.5		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	6.9		mg/kg	2.1	SW846 6010C	1/19/10	MNP	1/20/10 04:05	SRT	D1

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287006

Date Collected: 1/14/2010 10:31

Matrix: Solid

Sample ID: LO-4[5-6]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
1,2-Dibromoethane	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
1,2-Dichloroethane	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
Ethylbenzene	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
Isopropylbenzene	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
Methyl t-Butyl Ether	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
Naphthalene	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
Toluene	11.2		ug/kg	2.2	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
Total Xylenes	ND		ug/kg	6.7	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	89.7		%	56-124	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
4-Bromofluorobenzene (S)	122		%	51-128	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
Dibromofluoromethane (S)	104		%	62-123	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
Toluene-d8 (S)	150	2	%	59-131	8260/5035	1/14/10	TMP	1/19/10 11:41	MES	B
WET CHEMISTRY										
Moisture	20.0		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	80.0		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	359		mg/kg	2.5	SW846 6010C	1/20/10	MNP	1/21/10 03:08	SRT	D1

Sample Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

One or more of the method 8260 surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287007

Date Collected: 1/14/2010 11:02

Matrix: Solid

Sample ID: LO-5[7-8]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	5.7		ug/kg	2.8	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
1,2-Dibromoethane	ND		ug/kg	2.8	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
1,2-Dichloroethane	ND		ug/kg	2.8	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
Ethylbenzene	ND		ug/kg	2.8	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
Isopropylbenzene	ND		ug/kg	2.8	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
Methyl t-Butyl Ether	ND		ug/kg	2.8	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
Naphthalene	ND		ug/kg	2.8	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
Toluene	3.5		ug/kg	2.8	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
Total Xylenes	ND		ug/kg	8.5	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	82.4		%	56-124	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
4-Bromofluorobenzene (S)	130	4	%	51-128	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
Dibromofluoromethane (S)	96.5		%	62-123	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
Toluene-d8 (S)	171	3	%	59-131	8260/5035	1/14/10	TMP	1/19/10 12:10	MES	B
WET CHEMISTRY										
Moisture	6.1		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	93.9		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	25.3		mg/kg	2.0	SW846 6010C	1/20/10	MNP	1/21/10 03:26	SRT	D1

Sample Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

One or more of the method 8260 surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287008

Date Collected: 1/14/2010 11:34

Matrix: Solid

Sample ID: LO-6[5-6]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	2.3	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
1,2-Dibromoethane	ND		ug/kg	2.3	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
1,2-Dichloroethane	ND		ug/kg	2.3	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
Ethylbenzene	ND		ug/kg	2.3	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
Isopropylbenzene	ND		ug/kg	2.3	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
Methyl t-Butyl Ether	ND		ug/kg	2.3	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
Naphthalene	ND		ug/kg	2.3	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
Toluene	3.2		ug/kg	2.3	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
Total Xylenes	ND		ug/kg	6.9	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	91.4		%	56-124	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
4-Bromofluorobenzene (S)	151	6	%	51-128	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
Dibromofluoromethane (S)	108		%	62-123	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
Toluene-d8 (S)	147	5	%	59-131	8260/5035	1/14/10	TMP	1/19/10 12:39	MES	B
WET CHEMISTRY										
Moisture	4.7		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	95.3		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	11.2		mg/kg	2.0	SW846 6010C	1/20/10	MNP	1/21/10 03:29	SRT	D1

Sample Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

One or more of the method 8260 surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287009

Date Collected: 1/14/2010 12:03

Matrix: Solid

Sample ID: LO-7[14-15]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	42.0		ug/kg	2.2	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
1,2-Dibromoethane	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
1,2-Dichloroethane	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
Ethylbenzene	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
Isopropylbenzene	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
Methyl t-Butyl Ether	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
Naphthalene	ND		ug/kg	2.2	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
Toluene	16.0		ug/kg	2.2	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
Total Xylenes	9.4		ug/kg	6.5	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
1,2,4-Trimethylbenzene	3.3		ug/kg	2.2	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
1,3,5-Trimethylbenzene	2.2		ug/kg	2.2	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	117		%	56-124	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
4-Bromofluorobenzene (S)	130	4	%	51-128	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
Dibromofluoromethane (S)	106		%	62-123	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
Toluene-d8 (S)	144	7	%	59-131	8260/5035	1/14/10	TMP	1/20/10 05:34	DD	C
WET CHEMISTRY										
Moisture	14.5		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	85.5		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	51.9		mg/kg	2.1	SW846 6010C	1/20/10	MNP	1/21/10 03:33	SRT	D1

Sample Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

One or more of the method 8260 surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287010

Date Collected: 1/14/2010 12:27

Matrix: Solid

Sample ID: LO-8[6.5-7.5]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	4.5		ug/kg	2.0	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
1,2-Dibromoethane	ND		ug/kg	2.0	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
1,2-Dichloroethane	ND		ug/kg	2.0	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
Ethylbenzene	ND		ug/kg	2.0	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
Isopropylbenzene	ND		ug/kg	2.0	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
Methyl t-Butyl Ether	ND		ug/kg	2.0	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
Naphthalene	ND		ug/kg	2.0	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
Toluene	30.8		ug/kg	2.0	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
Total Xylenes	12.5		ug/kg	5.9	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
1,2,4-Trimethylbenzene	2.5		ug/kg	2.0	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	78.3		%	56-124	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
4-Bromofluorobenzene (S)	108		%	51-128	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
Dibromofluoromethane (S)	86.6		%	62-123	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
Toluene-d8 (S)	103		%	59-131	8260/5035	1/14/10	TMP	1/19/10 13:38	MES	B
WET CHEMISTRY										
Moisture	6.9		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	93.1		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	110		mg/kg	2.0	SW846 6010C	1/20/10	MNP	1/21/10 03:37	SRT	D1

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287011

Date Collected: 1/14/2010 12:41

Matrix: Solid

Sample ID: LO-9[11-12]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	38.7	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
1,2-Dibromoethane	50.4		ug/kg	38.7	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
1,2-Dichloroethane	ND		ug/kg	38.7	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
Ethylbenzene	105		ug/kg	38.7	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
Isopropylbenzene	519		ug/kg	38.7	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	38.7	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
Naphthalene	ND		ug/kg	77.3	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
Toluene	ND		ug/kg	38.7	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
Total Xylenes	ND		ug/kg	116	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
1,2,4-Trimethylbenzene	6360		ug/kg	38.7	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
1,3,5-Trimethylbenzene	4630		ug/kg	38.7	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	87.6		%	71-146	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
4-Bromofluorobenzene (S)	95.9		%	46-138	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
Dibromofluoromethane (S)	78.5		%	42-143	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
Toluene-d8 (S)	100		%	54-141	8260/5035	1/14/10	TMP	1/22/10 14:26	TMP	A
WET CHEMISTRY										
Moisture	10.0		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	90.0		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	11.6		mg/kg	1.9	SW846 6010C	1/20/10	MNP	1/21/10 03:40	SRT	D1

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287012

Date Collected: 1/14/2010 13:08

Matrix: Solid

Sample ID: LO-10[5-6]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	3.1	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
1,2-Dibromoethane	ND		ug/kg	3.1	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
1,2-Dichloroethane	ND		ug/kg	3.1	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
Ethylbenzene	ND		ug/kg	3.1	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
Isopropylbenzene	ND		ug/kg	3.1	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
Methyl t-Butyl Ether	ND		ug/kg	3.1	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
Naphthalene	ND		ug/kg	3.1	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
Toluene	5.6		ug/kg	3.1	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
Total Xylenes	ND		ug/kg	9.3	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	123		%	56-124	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
4-Bromofluorobenzene (S)	129	10	%	51-128	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
Dibromofluoromethane (S)	136	8	%	62-123	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
Toluene-d8 (S)	167	9	%	59-131	8260/5035	1/14/10	TMP	1/19/10 14:07	MES	B
WET CHEMISTRY										
Moisture	15.2		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	84.8		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	9.3		mg/kg	2.3	SW846 6010C	1/20/10	MNP	1/21/10 03:44	SRT	D1

Sample Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

One or more of the method 8260 surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287013

Date Collected: 1/14/2010 13:52

Matrix: Solid

Sample ID: LO-13[3-4]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	23100		ug/kg	2240	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
1,2-Dibromoethane	ND		ug/kg	2240	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
1,2-Dichloroethane	ND		ug/kg	2240	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
Ethylbenzene	49300		ug/kg	2240	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
Isopropylbenzene	11900		ug/kg	2240	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	2240	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
Naphthalene	17400		ug/kg	4480	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
Toluene	183000		ug/kg	2240	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
Total Xylenes	324000		ug/kg	6720	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
1,2,4-Trimethylbenzene	158000		ug/kg	2240	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
1,3,5-Trimethylbenzene	52800		ug/kg	2240	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	75		%	71-146	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
4-Bromofluorobenzene (S)	92.6		%	46-138	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
Dibromofluoromethane (S)	80.4		%	42-143	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
Toluene-d8 (S)	89.2		%	54-141	8260/5035	1/14/10	TMP	1/22/10 14:53	TMP	A
WET CHEMISTRY										
Moisture	11.4		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	88.6		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	62.2		mg/kg	2.3	SW846 6010C	1/20/10	MNP	1/21/10 03:48	SRT	D1

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287014

Date Collected: 1/14/2010 14:09

Matrix: Solid

Sample ID: LO-13[11-12]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	1.7		ug/kg	1.5	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
1,2-Dibromoethane	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
1,2-Dichloroethane	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
Ethylbenzene	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
Isopropylbenzene	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
Methyl t-Butyl Ether	36.8		ug/kg	1.5	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
Naphthalene	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
Toluene	3.7		ug/kg	1.5	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
Total Xylenes	4.5		ug/kg	4.4	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
1,2,4-Trimethylbenzene	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
1,3,5-Trimethylbenzene	ND		ug/kg	1.5	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	76.6		%	56-124	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
4-Bromofluorobenzene (S)	87.1		%	51-128	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
Dibromofluoromethane (S)	83.6		%	62-123	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
Toluene-d8 (S)	84.6		%	59-131	8260/5035	1/14/10	TMP	1/19/10 14:36	MES	B
WET CHEMISTRY										
Moisture	6.9		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	93.1		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	7.7		mg/kg	2.1	SW846 6010C	1/20/10	MNP	1/21/10 03:51	SRT	D1

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287015

Date Collected: 1/14/2010 14:41

Matrix: Solid

Sample ID: LO-14[9-10]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	85900		ug/kg	829	8260/5035	1/14/10	TMP	1/22/10 15:20	TMP	A
1,2-Dibromoethane	ND		ug/kg	829	8260/5035	1/14/10	TMP	1/22/10 15:20	TMP	A
1,2-Dichloroethane	ND		ug/kg	829	8260/5035	1/14/10	TMP	1/22/10 15:20	TMP	A
Ethylbenzene	146000		ug/kg	8290	8260/5035	1/14/10	JAH	1/26/10 11:55	MES	A
Isopropylbenzene	29900		ug/kg	829	8260/5035	1/14/10	TMP	1/22/10 15:20	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	829	8260/5035	1/14/10	TMP	1/22/10 15:20	TMP	A
Naphthalene	44800		ug/kg	1660	8260/5035	1/14/10	TMP	1/22/10 15:20	TMP	A
Toluene	603000		ug/kg	8290	8260/5035	1/14/10	JAH	1/26/10 11:55	MES	A
Total Xylenes	884000		ug/kg	24900	8260/5035	1/14/10	JAH	1/26/10 11:55	MES	A
1,2,4-Trimethylbenzene	434000		ug/kg	8290	8260/5035	1/14/10	JAH	1/26/10 11:55	MES	A
1,3,5-Trimethylbenzene	150000		ug/kg	829	8260/5035	1/14/10	TMP	1/22/10 15:20	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	82.6		%	71-146	8260/5035	1/14/10	TMP	1/22/10 15:20	TMP	A
Dibromofluoromethane (S)	74.5		%	42-143	8260/5035	1/14/10	TMP	1/22/10 15:20	TMP	A
Toluene-d8 (S)	93.8		%	54-141	8260/5035	1/14/10	TMP	1/22/10 15:20	TMP	A
4-Bromofluorobenzene (S)	94.4		%	46-138	8260/5035	1/14/10	TMP	1/22/10 15:20	TMP	A
1,2-Dichloroethane-d4 (S)	54.6	12	%	71-146	8260/5035	1/14/10	JAH	1/26/10 11:55	MES	A
Toluene-d8 (S)	88.7		%	54-141	8260/5035	1/14/10	JAH	1/26/10 11:55	MES	A
4-Bromofluorobenzene (S)	103		%	46-138	8260/5035	1/14/10	JAH	1/26/10 11:55	MES	A
Dibromofluoromethane (S)	74.3		%	42-143	8260/5035	1/14/10	JAH	1/26/10 11:55	MES	A
WET CHEMISTRY										
Moisture	15.4		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	84.6		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	35.1		mg/kg	2.2	SW846 6010C	1/20/10	MNP	1/21/10 03:55	SRT	D1

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287016
Sample ID: LO-14[12-13]

Date Collected: 1/14/2010 14:50
Date Received: 1/18/2010 18:44

Matrix: Solid

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	29.4		ug/kg	1.8	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
1,2-Dibromoethane	ND		ug/kg	1.8	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
1,2-Dichloroethane	ND		ug/kg	1.8	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
Ethylbenzene	108		ug/kg	1.8	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
Isopropylbenzene	25.8		ug/kg	1.8	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
Methyl t-Butyl Ether	78.9		ug/kg	1.8	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
Naphthalene	71.1		ug/kg	1.8	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
Toluene	146		ug/kg	1.8	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
Total Xylenes	565	13	ug/kg	5.4	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
1,2,4-Trimethylbenzene	359	13	ug/kg	1.8	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
1,3,5-Trimethylbenzene	155		ug/kg	1.8	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	78.5		%	56-124	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
4-Bromofluorobenzene (S)	94		%	51-128	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
Dibromofluoromethane (S)	93.1		%	62-123	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
Toluene-d8 (S)	94.8		%	59-131	8260/5035	1/14/10	TMP	1/19/10 15:05	MES	C
WET CHEMISTRY										
Moisture	7.2		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	92.8		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	7.1		mg/kg	1.8	SW846 6010C	1/20/10	MNP	1/21/10 04:06	SRT	D1

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287017

Date Collected: 1/14/2010 15:10

Matrix: Solid

Sample ID: LO-15[3-4]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	34100		ug/kg	1200	8260/5035	1/14/10	TMP	1/22/10 15:47	TMP	A
1,2-Dibromoethane	ND		ug/kg	1200	8260/5035	1/14/10	TMP	1/22/10 15:47	TMP	A
1,2-Dichloroethane	ND		ug/kg	1200	8260/5035	1/14/10	TMP	1/22/10 15:47	TMP	A
Ethylbenzene	108000		ug/kg	1200	8260/5035	1/14/10	TMP	1/22/10 15:47	TMP	A
Isopropylbenzene	21700		ug/kg	1200	8260/5035	1/14/10	TMP	1/22/10 15:47	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	1200	8260/5035	1/14/10	TMP	1/22/10 15:47	TMP	A
Naphthalene	41600		ug/kg	2410	8260/5035	1/14/10	TMP	1/22/10 15:47	TMP	A
Toluene	296000		ug/kg	6020	8260/5035	1/14/10	JAH	1/26/10 12:22	MES	A
Total Xylenes	686000		ug/kg	18100	8260/5035	1/14/10	JAH	1/26/10 12:22	MES	A
1,2,4-Trimethylbenzene	518000		ug/kg	6020	8260/5035	1/14/10	JAH	1/26/10 12:22	MES	A
1,3,5-Trimethylbenzene	176000		ug/kg	1200	8260/5035	1/14/10	TMP	1/22/10 15:47	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	75.4		%	71-146	8260/5035	1/14/10	TMP	1/22/10 15:47	TMP	A
Dibromofluoromethane (S)	77.3		%	42-143	8260/5035	1/14/10	TMP	1/22/10 15:47	TMP	A
Toluene-d8 (S)	88.2		%	54-141	8260/5035	1/14/10	TMP	1/22/10 15:47	TMP	A
4-Bromofluorobenzene (S)	92.6		%	46-138	8260/5035	1/14/10	TMP	1/22/10 15:47	TMP	A
1,2-Dichloroethane-d4 (S)	56.1	14	%	71-146	8260/5035	1/14/10	JAH	1/26/10 12:22	MES	A
4-Bromofluorobenzene (S)	106		%	46-138	8260/5035	1/14/10	JAH	1/26/10 12:22	MES	A
Toluene-d8 (S)	89.3		%	54-141	8260/5035	1/14/10	JAH	1/26/10 12:22	MES	A
Dibromofluoromethane (S)	74.2		%	42-143	8260/5035	1/14/10	JAH	1/26/10 12:22	MES	A
WET CHEMISTRY										
Moisture	19.7		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	80.3		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	62.9		mg/kg	2.5	SW846 6010C	1/20/10	MNP	1/21/10 04:09	SRT	D1

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287018

Date Collected: 1/14/2010 15:25

Matrix: Solid

Sample ID: LO-16[5-6]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	6070		ug/kg	376	8260/5035	1/14/10	TMP	1/22/10 16:14	TMP	A
1,2-Dibromoethane	ND		ug/kg	376	8260/5035	1/14/10	TMP	1/22/10 16:14	TMP	A
1,2-Dichloroethane	ND		ug/kg	376	8260/5035	1/14/10	TMP	1/22/10 16:14	TMP	A
Ethylbenzene	49600		ug/kg	376	8260/5035	1/14/10	TMP	1/22/10 16:14	TMP	A
Isopropylbenzene	4960		ug/kg	376	8260/5035	1/14/10	TMP	1/22/10 16:14	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	376	8260/5035	1/14/10	TMP	1/22/10 16:14	TMP	A
Naphthalene	13000		ug/kg	751	8260/5035	1/14/10	TMP	1/22/10 16:14	TMP	A
Toluene	141000		ug/kg	1880	8260/5035	1/14/10	JAH	1/26/10 12:49	MES	A
Total Xylenes	271000		ug/kg	5640	8260/5035	1/14/10	JAH	1/26/10 12:49	MES	A
1,2,4-Trimethylbenzene	123000		ug/kg	1880	8260/5035	1/14/10	JAH	1/26/10 12:49	MES	A
1,3,5-Trimethylbenzene	38000		ug/kg	376	8260/5035	1/14/10	TMP	1/22/10 16:14	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	76.1		%	71-146	8260/5035	1/14/10	TMP	1/22/10 16:14	TMP	A
Dibromofluoromethane (S)	76.9		%	42-143	8260/5035	1/14/10	TMP	1/22/10 16:14	TMP	A
Toluene-d8 (S)	90.3		%	54-141	8260/5035	1/14/10	TMP	1/22/10 16:14	TMP	A
4-Bromofluorobenzene (S)	92.1		%	46-138	8260/5035	1/14/10	TMP	1/22/10 16:14	TMP	A
1,2-Dichloroethane-d4 (S)	56.1	15	%	71-146	8260/5035	1/14/10	JAH	1/26/10 12:49	MES	A
4-Bromofluorobenzene (S)	104		%	46-138	8260/5035	1/14/10	JAH	1/26/10 12:49	MES	A
Toluene-d8 (S)	89.1		%	54-141	8260/5035	1/14/10	JAH	1/26/10 12:49	MES	A
Dibromofluoromethane (S)	76.3		%	42-143	8260/5035	1/14/10	JAH	1/26/10 12:49	MES	A
WET CHEMISTRY										
Moisture	13.3		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	86.7		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	13.6		mg/kg	2.2	SW846 6010C	1/20/10	MNP	1/21/10 04:13	SRT	D1

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287019

Date Collected: 1/14/2010 15:37

Matrix: Solid

Sample ID: LO-16[11-12]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	19900		ug/kg	422	8260/5035	1/14/10	TMP	1/22/10 16:41	TMP	A
1,2-Dibromoethane	ND		ug/kg	422	8260/5035	1/14/10	TMP	1/22/10 16:41	TMP	A
1,2-Dichloroethane	ND		ug/kg	422	8260/5035	1/14/10	TMP	1/22/10 16:41	TMP	A
Ethylbenzene	58600		ug/kg	422	8260/5035	1/14/10	TMP	1/22/10 16:41	TMP	A
Isopropylbenzene	5730		ug/kg	422	8260/5035	1/14/10	TMP	1/22/10 16:41	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	422	8260/5035	1/14/10	TMP	1/22/10 16:41	TMP	A
Naphthalene	13600		ug/kg	844	8260/5035	1/14/10	TMP	1/22/10 16:41	TMP	A
Toluene	156000		ug/kg	2110	8260/5035	1/14/10	JAH	1/26/10 13:16	MES	A
Total Xylenes	290000		ug/kg	6330	8260/5035	1/14/10	JAH	1/26/10 13:16	MES	A
1,2,4-Trimethylbenzene	130000		ug/kg	2110	8260/5035	1/14/10	JAH	1/26/10 13:16	MES	A
1,3,5-Trimethylbenzene	39000		ug/kg	422	8260/5035	1/14/10	TMP	1/22/10 16:41	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	73.7		%	71-146	8260/5035	1/14/10	TMP	1/22/10 16:41	TMP	A
Dibromofluoromethane (S)	79.3		%	42-143	8260/5035	1/14/10	TMP	1/22/10 16:41	TMP	A
4-Bromofluorobenzene (S)	94.1		%	46-138	8260/5035	1/14/10	TMP	1/22/10 16:41	TMP	A
Toluene-d8 (S)	90		%	54-141	8260/5035	1/14/10	TMP	1/22/10 16:41	TMP	A
1,2-Dichloroethane-d4 (S)	53	16	%	71-146	8260/5035	1/14/10	JAH	1/26/10 13:16	MES	A
4-Bromofluorobenzene (S)	106		%	46-138	8260/5035	1/14/10	JAH	1/26/10 13:16	MES	A
Toluene-d8 (S)	91.1		%	54-141	8260/5035	1/14/10	JAH	1/26/10 13:16	MES	A
Dibromofluoromethane (S)	75.7		%	42-143	8260/5035	1/14/10	JAH	1/26/10 13:16	MES	A
WET CHEMISTRY										
Moisture	6.2		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	93.8		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	9.4		mg/kg	2.0	SW846 6010C	1/20/10	MNP	1/21/10 04:24	SRT	D1

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287020

Date Collected: 1/14/2010 15:53

Matrix: Solid

Sample ID: LO-17[3-4]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	6880		ug/kg	401	8260/5035	1/14/10	TMP	1/22/10 18:57	TMP	A
1,2-Dibromoethane	ND		ug/kg	401	8260/5035	1/14/10	TMP	1/22/10 18:57	TMP	A
1,2-Dichloroethane	ND		ug/kg	401	8260/5035	1/14/10	TMP	1/22/10 18:57	TMP	A
Ethylbenzene	70400		ug/kg	401	8260/5035	1/14/10	TMP	1/22/10 18:57	TMP	A
Isopropylbenzene	22500		ug/kg	401	8260/5035	1/14/10	TMP	1/22/10 18:57	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	401	8260/5035	1/14/10	TMP	1/22/10 18:57	TMP	A
Naphthalene	33000		ug/kg	801	8260/5035	1/14/10	TMP	1/22/10 18:57	TMP	A
Toluene	39500		ug/kg	401	8260/5035	1/14/10	TMP	1/22/10 18:57	TMP	A
Total Xylenes	603000		ug/kg	12000	8260/5035	1/14/10	JAH	1/26/10 10:07	MES	A
1,2,4-Trimethylbenzene	399000		ug/kg	4010	8260/5035	1/14/10	JAH	1/26/10 10:07	MES	A
1,3,5-Trimethylbenzene	136000		ug/kg	4010	8260/5035	1/14/10	JAH	1/26/10 10:07	MES	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	219	17	%	71-146	8260/5035	1/14/10	TMP	1/22/10 18:57	TMP	A
Dibromofluoromethane (S)	95.9		%	42-143	8260/5035	1/14/10	TMP	1/22/10 18:57	TMP	A
Toluene-d8 (S)	152	19	%	54-141	8260/5035	1/14/10	TMP	1/22/10 18:57	TMP	A
4-Bromofluorobenzene (S)	156	20	%	46-138	8260/5035	1/14/10	TMP	1/22/10 18:57	TMP	A
1,2-Dichloroethane-d4 (S)	204	18	%	71-146	8260/5035	1/14/10	JAH	1/26/10 10:07	MES	A
Toluene-d8 (S)	126		%	54-141	8260/5035	1/14/10	JAH	1/26/10 10:07	MES	A
4-Bromofluorobenzene (S)	307	21	%	46-138	8260/5035	1/14/10	JAH	1/26/10 10:07	MES	A
Dibromofluoromethane (S)	68.5		%	42-143	8260/5035	1/14/10	JAH	1/26/10 10:07	MES	A
WET CHEMISTRY										
Moisture	7.9		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	92.1		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	34.9		mg/kg	2.0	SW846 6010C	1/20/10	MNP	1/21/10 04:28	SRT	D1

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287021

Date Collected: 1/14/2010 16:01

Matrix: Solid

Sample ID: LO-17[5-6]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	42.7		ug/kg	0.78	8260/5035	1/14/10	DD	1/20/10 00:30	DD	B
1,2-Dibromoethane	ND		ug/kg	0.78	8260/5035	1/14/10	DD	1/20/10 00:30	DD	B
1,2-Dichloroethane	ND		ug/kg	0.78	8260/5035	1/14/10	DD	1/20/10 00:30	DD	B
Ethylbenzene	24.4		ug/kg	0.78	8260/5035	1/14/10	DD	1/20/10 00:30	DD	B
Isopropylbenzene	12.5		ug/kg	0.78	8260/5035	1/14/10	DD	1/20/10 00:30	DD	B
Methyl t-Butyl Ether	149		ug/kg	54.9	8260/5035	1/22/10	TMP	1/22/10 19:24	TMP	D2
Naphthalene	6.9		ug/kg	0.78	8260/5035	1/14/10	DD	1/20/10 00:30	DD	B
Toluene	3.3		ug/kg	0.78	8260/5035	1/14/10	DD	1/20/10 00:30	DD	B
Total Xylenes	102		ug/kg	2.3	8260/5035	1/14/10	DD	1/20/10 00:30	DD	B
1,2,4-Trimethylbenzene	1060		ug/kg	54.9	8260/5035	1/22/10	TMP	1/22/10 19:24	TMP	D2
1,3,5-Trimethylbenzene	62.4		ug/kg	0.78	8260/5035	1/14/10	DD	1/20/10 00:30	DD	B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	87.5		%	71-146	8260/5035	1/22/10	TMP	1/22/10 19:24	TMP	D2
Dibromofluoromethane (S)	101		%	42-143	8260/5035	1/22/10	TMP	1/22/10 19:24	TMP	D2
Toluene-d8 (S)	103		%	54-141	8260/5035	1/22/10	TMP	1/22/10 19:24	TMP	D2
4-Bromofluorobenzene (S)	107		%	46-138	8260/5035	1/22/10	TMP	1/22/10 19:24	TMP	D2
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	96.4		%	56-124	8260/5035	1/14/10	DD	1/20/10 00:30	DD	B
Dibromofluoromethane (S)	83.9		%	62-123	8260/5035	1/14/10	DD	1/20/10 00:30	DD	B
Toluene-d8 (S)	92.4		%	59-131	8260/5035	1/14/10	DD	1/20/10 00:30	DD	B
4-Bromofluorobenzene (S)	93.6		%	51-128	8260/5035	1/14/10	DD	1/20/10 00:30	DD	B
WET CHEMISTRY										
Moisture	12.9		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	87.1		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	18.6		mg/kg	2.0	SW846 6010C	1/20/10	MNP	1/21/10 04:31	SRT	D1

Sample Comments:

This soil sample was collected in preweighed volatile vials but no sample was present in the extract. The soil was prepared from the jar, but the sample was received and prepared by Method 5035 after the 48-hour holding time.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287022

Date Collected: 1/14/2010 16:08

Matrix: Solid

Sample ID: LO-18[4-5]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	3100		ug/kg	394	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
1,2-Dibromoethane	ND		ug/kg	394	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
1,2-Dichloroethane	ND		ug/kg	394	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
Ethylbenzene	9980		ug/kg	394	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
Isopropylbenzene	3600		ug/kg	394	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	394	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
Naphthalene	2880		ug/kg	787	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
Toluene	2450		ug/kg	394	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
Total Xylenes	43600		ug/kg	1180	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
1,2,4-Trimethylbenzene	59800		ug/kg	394	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
1,3,5-Trimethylbenzene	25100		ug/kg	394	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	90.5		%	71-146	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
4-Bromofluorobenzene (S)	105		%	46-138	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
Dibromofluoromethane (S)	80.9		%	42-143	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
Toluene-d8 (S)	89.4		%	54-141	8260/5035	1/14/10	JAH	1/22/10 17:08	TMP	A
WET CHEMISTRY										
Moisture	14.3		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	85.7		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	16.1		mg/kg	2.3	SW846 6010C	1/20/10	MNP	1/21/10 04:35	SRT	D1

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9827287 Liberty Oil #38

Lab ID: 9827287023

Date Collected: 1/14/2010 16:23

Matrix: Solid

Sample ID: LO-19[3-4]

Date Received: 1/18/2010 18:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	8390		ug/kg	75.4	8260/5035	1/14/10	TMP	1/27/10 14:51	TMP	A
1,2-Dibromoethane	ND		ug/kg	2.7	8260/5035	1/14/10	DD	1/20/10 01:28	DD	B
1,2-Dichloroethane	ND		ug/kg	2.7	8260/5035	1/14/10	DD	1/20/10 01:28	DD	B
Ethylbenzene	7650		ug/kg	75.4	8260/5035	1/14/10	TMP	1/27/10 14:51	TMP	A
Isopropylbenzene	224		ug/kg	2.7	8260/5035	1/14/10	DD	1/20/10 01:28	DD	B
Methyl t-Butyl Ether	242		ug/kg	2.7	8260/5035	1/14/10	DD	1/20/10 01:28	DD	B
Naphthalene	7.2		ug/kg	2.7	8260/5035	1/14/10	DD	1/20/10 01:28	DD	B
Toluene	107		ug/kg	2.7	8260/5035	1/14/10	DD	1/20/10 01:28	DD	B
Total Xylenes	17600		ug/kg	226	8260/5035	1/14/10	TMP	1/27/10 14:51	TMP	A
1,2,4-Trimethylbenzene	201		ug/kg	2.7	8260/5035	1/14/10	DD	1/20/10 01:28	DD	B
1,3,5-Trimethylbenzene	2370		ug/kg	75.4	8260/5035	1/14/10	TMP	1/27/10 14:51	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	68	22	%	71-146	8260/5035	1/14/10	TMP	1/27/10 14:51	TMP	A
Dibromofluoromethane (S)	63.1		%	42-143	8260/5035	1/14/10	TMP	1/27/10 14:51	TMP	A
Toluene-d8 (S)	71.1		%	54-141	8260/5035	1/14/10	TMP	1/27/10 14:51	TMP	A
4-Bromofluorobenzene (S)	74.3		%	46-138	8260/5035	1/14/10	TMP	1/27/10 14:51	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	86.9		%	56-124	8260/5035	1/14/10	DD	1/20/10 01:28	DD	B
Toluene-d8 (S)	131		%	59-131	8260/5035	1/14/10	DD	1/20/10 01:28	DD	B
4-Bromofluorobenzene (S)	136	23	%	51-128	8260/5035	1/14/10	DD	1/20/10 01:28	DD	B
Dibromofluoromethane (S)	84.8		%	62-123	8260/5035	1/14/10	DD	1/20/10 01:28	DD	B
WET CHEMISTRY										
Moisture	22.3		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
Total Solids	77.7		%	0.1	SM20-2540 G			1/20/10 03:05	LJF	D
METALS										
Lead, Total	144		mg/kg	2.6	SW846 6010C	1/20/10	MNP	1/21/10 04:38	SRT	D1

Sample Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits, indicating a significant matrix interference.

One or more of the method 8260 surrogates were recovered outside of the control limits, indicating a significant matrix interference.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9827287 Liberty Oil #38

PARAMETER QUALIFIERS\FLAGS

- [1] The surrogate 1,2-Dichloroethane-d4 for method 8260/5035 was outside of control limits. The % Recovery was reported as 56.3 and the control limits were 71 to 146. This result was reported at a dilution of 50.
- [2] The surrogate Toluene-d8 for method 8260/5035 was outside of control limits. The % Recovery was reported as 150 and the control limits were 59 to 131. This result was reported at a dilution of 1.
- [3] The surrogate Toluene-d8 for method 8260/5035 was outside of control limits. The % Recovery was reported as 171 and the control limits were 59 to 131. This result was reported at a dilution of 1.
- [4] The surrogate 4-Bromofluorobenzene for method 8260/5035 was outside of control limits. The % Recovery was reported as 130 and the control limits were 51 to 128. This result was reported at a dilution of 1.
- [5] The surrogate Toluene-d8 for method 8260/5035 was outside of control limits. The % Recovery was reported as 147 and the control limits were 59 to 131. This result was reported at a dilution of 1.
- [6] The surrogate 4-Bromofluorobenzene for method 8260/5035 was outside of control limits. The % Recovery was reported as 151 and the control limits were 51 to 128. This result was reported at a dilution of 1.
- [7] The surrogate Toluene-d8 for method 8260/5035 was outside of control limits. The % Recovery was reported as 144 and the control limits were 59 to 131. This result was reported at a dilution of 1.
- [8] The surrogate Dibromofluoromethane for method 8260/5035 was outside of control limits. The % Recovery was reported as 136 and the control limits were 62 to 123. This result was reported at a dilution of 1.
- [9] The surrogate Toluene-d8 for method 8260/5035 was outside of control limits. The % Recovery was reported as 167 and the control limits were 59 to 131. This result was reported at a dilution of 1.
- [10] The surrogate 4-Bromofluorobenzene for method 8260/5035 was outside of control limits. The % Recovery was reported as 129 and the control limits were 51 to 128. This result was reported at a dilution of 1.
- [12] The surrogate 1,2-Dichloroethane-d4 for method 8260/5035 was outside of control limits. The % Recovery was reported as 54.6 and the control limits were 71 to 146. This result was reported at a dilution of 10000.
- [13] This compound was recovered above the calibration range of the instrument. The methanol extract was analyzed, but did not match the low level run. The value given should be considered estimated.
- [14] The surrogate 1,2-Dichloroethane-d4 for method 8260/5035 was outside of control limits. The % Recovery was reported as 56.1 and the control limits were 71 to 146. This result was reported at a dilution of 5000.
- [15] The surrogate 1,2-Dichloroethane-d4 for method 8260/5035 was outside of control limits. The % Recovery was reported as 56.1 and the control limits were 71 to 146. This result was reported at a dilution of 2500.
- [16] The surrogate 1,2-Dichloroethane-d4 for method 8260/5035 was outside of control limits. The % Recovery was reported as 53 and the control limits were 71 to 146. This result was reported at a dilution of 2500.
- [17] The surrogate 1,2-Dichloroethane-d4 for method 8260/5035 was outside of control limits. The % Recovery was reported as 219 and the control limits were 71 to 146. This result was reported at a dilution of 500.
- [18] The surrogate 1,2-Dichloroethane-d4 for method 8260/5035 was outside of control limits. The % Recovery was reported as 204 and the control limits were 71 to 146. This result was reported at a dilution of 5000.
- [19] The surrogate Toluene-d8 for method 8260/5035 was outside of control limits. The % Recovery was reported as 152 and the control limits were 54 to 141. This result was reported at a dilution of 500.



ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9827287 Liberty Oil #38

PARAMETER QUALIFIERS\FLAGS

- [20] The surrogate 4-Bromofluorobenzene for method 8260/5035 was outside of control limits. The % Recovery was reported as 156 and the control limits were 46 to 138. This result was reported at a dilution of 500.
- [21] The surrogate 4-Bromofluorobenzene for method 8260/5035 was outside of control limits. The % Recovery was reported as 307 and the control limits were 46 to 138. This result was reported at a dilution of 5000.
- [22] The surrogate 1,2-Dichloroethane-d4 for method 8260/5035 was outside of control limits. The % Recovery was reported as 68 and the control limits were 71 to 146. This result was reported at a dilution of 50.
- [23] The surrogate 4-Bromofluorobenzene for method 8260/5035 was outside of control limits. The % Recovery was reported as 136 and the control limits were 51 to 128. This result was reported at a dilution of 1.



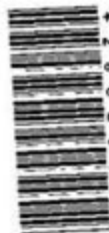
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Environmental & Industrial Hygiene & Field Services

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Generated by ALS



of

Client Name: **CENTER POINT TANK SERVICES**
Address: **530 E. BEN FRANKLIN HWY**
DECATURVILLE PA 19518

Contact: **PAU GAWFORD**
Phone#: **610 385 4977**

Project Name#: **LIBERTY OIL #133**
Bill To: **CENTER POINT TANK SERVICES**

TAT ☐ Normal-Standard TAT is 10-12 business days.
☐ Rush-Subject to ALSI approval and surcharges.

Date Required: _____ Approved By: _____

Email? ☒ Y ☐ N **PAU.GAWFORD@CENTERPOINTTANK.COM**

Fax? ☐ Y ☐ N

Sample Description/Location (as it will appear on the lab report)

Sample Date Time

1 10-1 (3-4) 1/14/10 0913

2 10-1 (7-8) 1/14/10 0927

3 10-1 (10-5-11-2) 1/14/10 0935

4 10-2 (6-5-7) 1/14/10 0943

5 10-3 (11-12) 1/14/10 1014

6 10-4 (5-6) 1/14/10 1031

7 10-5 (7-8) 1/14/10 1102

8 10-6 (5-6) 1/14/10 1134

9 10-7 (14-15) 1/14/10 1203

10 10-8 (6-5-7-8) 1/14/10 1227

Project Comments:

LOGGED BY (signature): _____

REVIEWED BY (signature): _____

Date Time

1 1/18/2010 1313

3 1-18 1700

5 1/18 1846

7

9

Relinquished By / Company Name

1 Antares A. Leung

3 Ron Hwang

5

7

9

Matrix

Enter Number of Containers Per Sample or Field Results Below

Sample Comments

Sample Tracking #:

ALS Field Services: ☒ Pickup ☐ Labor
☐ Composite Sampling ☐ Rental Equipment
☐ Other:

Standard ☐ CLP-like ☐ USACE ☐ State Samples Collected In ☐ NY ☐ NJ ☒ PA ☐ NC

Special Processing ☐ USACE ☐ Navy ☐ Sample Disposal ☐ Lab ☐ Special

Reportable to PADEP? ☐ Yes ☐ No PWSID # _____ EDDS: Formal Type: _____

Matrix: Air=Air, GW=Groundwater, Oil=Oil, OL=Other Liquid, SL=Sediment, WP=Waste, WW=Wastewater

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**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
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COC #: 9827287 of
ALSI Quote #:

Client Name: <u>CENTRAL ROUT TANK SERVICES</u>		Container Type: <u>50ml</u>	Receipt Information (completed by Receiving Lab)	
Address: <u>536 E. BEN. FRANKLIN HWY</u>		Container Size: <u>50ml</u>	Cooler Temp: <u>7</u>	Therm ID: <u>50354</u>
Contact: <u>PAUL CLAWFORD</u>		Preservative: <u>None</u>	No. of Coolers: <u>1</u>	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Phone: <u>610 385 4978</u>		Custody Seal Present? <input checked="" type="checkbox"/>		
Project Name: <u>LIBERTY OIL #28</u>		(If present) Seal Intact? <input checked="" type="checkbox"/>		
Bill To: <u>CENTRAL ROUT TANK SERVICES</u>		Received on Ice? <input checked="" type="checkbox"/>		
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days.		COCLabels Complete/Accurate? <input checked="" type="checkbox"/>		
Date Required: <u>1/18/10</u>		Cost, In Good Cond.? <input checked="" type="checkbox"/>		
Email? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		Correct Containers? <input checked="" type="checkbox"/>		
Fax? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		Correct Sample Volumes? <input checked="" type="checkbox"/>		
Approved By: <u>PAUL CLAWFORD</u>		Correct Preservation? <input checked="" type="checkbox"/>		
Sample Description/Location (as it will appear on the lab report)		Headspace/Volatiles? <input checked="" type="checkbox"/>		
Sample Date	Time	Courier/Tracking #:		
1 10-9 (11-12)	1241	Sample/COC Comments		
2 10-10 (5-6)	1308	Enter Number of Containers Per Sample or Field Results Below.		
3 10-13 (3-4)	1352	UNLEADED MIDP		
4 10-13 (11-12)	1409	LEADED MIDP		
5 10-14 (9-10)	1441	GASOLINE		
6 10-14 (12-13)	1450	GASOLINE		
7 10-15 (3-4)	1510	GASOLINE		
8 10-16 (5-6)	1525	GASOLINE		
9 10-16 (11-12)	1537	GASOLINE		
10 10-17 (3-4)	1553	GASOLINE		
Project Comments:		ALSI Field Services: <input checked="" type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment <input type="checkbox"/> Other:		
Relinquished By / Company Name	Date	Time	Received By / Company Name	Date
1 <u>Antoine & Co</u>	1/18/2010	1315	<u>PAUL CLAWFORD</u>	1/18/2010
3 <u>Don Hagan</u>	1-18	1700	<u>PAUL CLAWFORD</u>	1-18
5 <u>Don Hagan</u>	1-18	1800	<u>PAUL CLAWFORD</u>	1-18
7				
9				
Data Deliverables		Special Processing		
<input type="checkbox"/> Standard	<input type="checkbox"/> CLP-like	USACE <input type="checkbox"/> Navy <input type="checkbox"/>		
<input type="checkbox"/> USACE	<input type="checkbox"/> Reportable to PADEP?	Sample Disposal		
<input type="checkbox"/> Yes <input type="checkbox"/> No	PWSID #	Lab <input type="checkbox"/> Special <input type="checkbox"/>		
EDDS: Format Type		State Samples Collected In		
		NY <input type="checkbox"/> NJ <input type="checkbox"/> PA <input checked="" type="checkbox"/> NC <input type="checkbox"/>		

* G-Grabs, C-Composite **Matrix - A=Air; DW=Drinking Water; GW=Groundwater; O=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
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**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

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COC #: 927287 of
ALSI Quote #:

Client Name: <u>CENTER POINT TANK SERVICES</u>		Container Type: <u>55 GAL DRUM</u>		Receipt Information (Completed by Receiving Lab)	
Address: <u>530 E. BEN. FRANKLIN HWY</u>		Container Size: <u>55 GAL</u>		Cooler Temp: <u>7</u> Therm ID: <u>BUS81</u>	
Contact: <u>DAUGLASVILLE PA 19518</u>		Preservation: <u>none</u>		No. of Coolers: <u>Y</u> <u>N</u> Initial	
Phone: <u>610 383 4977</u>		ANALYSIS/METHOD REQUESTED		Custody Seal Present? <u>Y</u>	
Project Name: <u>LIBERTY OIL #33</u>		UNSHADED		(If present) Seals Intact? <u>Y</u>	
Bill To: <u>CENTER POINT TANK SERVICES</u>		LEADED CRACKLINE		Received on Ice? <u>Y</u>	
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days.		THICK CRACKLINE		COCLUBS Complete/Accurate? <u>Y</u>	
Rush-Subject to ALSI approval and surcharges.		THIN CRACKLINE		Cont. in Good Cond.? <u>Y</u>	
Date Required: <u>1/18/10</u> Approved By: <u>[Signature]</u>				Correct Containers? <u>Y</u>	
Email? <u>Y</u> <u>N</u>				Correct Sample Volumes? <u>Y</u>	
Fax? <u>Y</u> <u>N</u>				Correct Preservation? <u>Y</u>	
Sample Description/Location (as it will appear on the lab report)		Sample Date		Headspace/Volatiles? <u>Y</u>	
1 <u>LO-17(5-6)</u>		<u>1/14/10</u>		Courier/Tracking #:	
2 <u>LO-18(4-5)</u>		<u>1/14/10</u>		Samples/COC Comments	
3 <u>LO-19(3-4)</u>		<u>1/14/10</u>		Enter Number of Containers Per Sample or Field Results Below:	
4					
5					
6					
7					
8					
9					
10					
Project Comments:		LOGGED BY (signature): <u>[Signature]</u>		ALSI Field Services: <input checked="" type="checkbox"/> Pickup <input checked="" type="checkbox"/> Labor <input checked="" type="checkbox"/> oComposite Sampling <input checked="" type="checkbox"/> oRental Equipment <input checked="" type="checkbox"/> oOther:	
Relinquished By (signature): <u>[Signature]</u>		REVIEWED BY (signature): <u>[Signature]</u>		Special Processing	
Date: <u>1/18/2010</u> Time: <u>13:52</u>		Date: <u>1/18/2010</u> Time: <u>13:00</u>		Standard <input type="checkbox"/> CLP-like <input type="checkbox"/> USACE <input type="checkbox"/>	
3 <u>LO-18(4-5)</u>		Date: <u>1/18/2010</u> Time: <u>17:00</u>		State Samples Collected In: <input type="checkbox"/> NY <input type="checkbox"/> NJ <input checked="" type="checkbox"/> PA <input type="checkbox"/> NC	
5 <u>LO-19(3-4)</u>		Date: <u>1/18/2010</u> Time: <u>17:10</u>		Sample Disposal: <input type="checkbox"/> Lab <input type="checkbox"/> Special	
7				Reportable to PADEP? <input type="checkbox"/> Yes <input type="checkbox"/> No	
9				PWSID #	
				EDDS: Formal Type:	

* G-Grab; C-Composite **Matrix: Air-Air; DW-Drinking Water; GW-Groundwater; Oil-Oil; OL-Other Liquid; SL-Sludge; SO-Soil; WP-Water; WW-Wastewater
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Tonya M. Hironimus

From: Tonya M. Hironimus
Sent: Monday, January 25, 2010 10:28 AM
To: 'pat@centerpointtank.com'
Subject: Liberty Oil #38 Project

Pat,
I wanted to make you aware that 2 of the methanol vials we received (one for LO-14[12-13] and one for LO-17[5-6]) were received without soil in them, therefore we needed to create the methanol vials from the jars. We received these samples after the 48 hour hold time, therefore the vials were created out of hold and you will see comments on these reports stating this.

Please let me know if you have any questions.

Thanks,
Tonya Hironimus
Project Coordinator
Analytical Laboratory Services, Inc.
34 Dogwood Lane, Middletown, PA 17057
Phone: (717) 944-5541 Ext. 3108
Fax: (717) 944-1430

1/25/2010

June 7, 2011

JV
Center Point Tank Services

Certificate of Analysis

Project Name: **Liberty Oil #38**Workorder: **9907781**

Purchase Order:

Workorder ID: **Liberty Oil#38/08-12-4292**

Dear ,

Enclosed are the analytical results for samples received by the laboratory on Friday, May 27, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania (formerly Analytical Laboratory Services, Inc.) is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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CC: Ms. Rachel Burkart, Mr. Pat Crawford

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Technical Manager

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Vancouver · Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 9907781 Liberty Oil#38/08-12-4292

Discard Date: 06/21/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9907781001	EX1@11.5'	Solid	5/25/11 09:35	5/27/11 19:28	Customer
9907781002	EX2@10'	Solid	5/25/11 13:54	5/27/11 19:28	Customer
9907781003	EX3@8'	Solid	5/25/11 14:07	5/27/11 19:28	Customer
9907781004	EX4@8.5'	Solid	5/25/11 14:23	5/27/11 19:28	Customer
9907781005	EX5@9.5'	Solid	5/25/11 14:45	5/27/11 19:28	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9907781 Liberty Oil#38/08-12-4292

Lab ID: **9907781001**

Date Collected: 5/25/2011 09:35

Matrix: Solid

Sample ID: **EX1@11.5'**

Date Received: 5/27/2011 19:28

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	3.3		ug/kg	2.2	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
1,2-Dibromoethane	ND		ug/kg	2.2	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
1,2-Dichloroethane	ND		ug/kg	2.2	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
Ethylbenzene	ND		ug/kg	2.2	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
Isopropylbenzene	ND		ug/kg	2.2	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
Methyl t-Butyl Ether	3.0		ug/kg	2.2	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
Naphthalene	ND		ug/kg	2.2	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
Toluene	4.3		ug/kg	2.2	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
Total Xylenes	ND		ug/kg	6.7	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	91		%	56-124	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
4-Bromofluorobenzene (S)	85.8		%	51-128	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
Dibromofluoromethane (S)	98.8		%	62-123	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
Toluene-d8 (S)	85.1		%	59-131	8260/5035	5/28/11	MES	6/7/11 08:31	MES	D2
WET CHEMISTRY										
Moisture	11.5		%	0.1	SM20-2540 G			5/31/11 20:30	EZ	D
Total Solids	88.5		%	0.1	SM20-2540 G			5/31/11 20:30	EZ	D
METALS										
Lead, Total	7.1		mg/kg	0.96	SW846 6020A	6/1/11	KMK	6/1/11 23:34	AJB	D1

Sample Comments:

This sample was collected in a soil jar for the volatile analysis. The sample was received and prepared by Method 5035 after the 48-hour holding time.


 Anna G Milliken
 Technical Manager

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ANALYTICAL RESULTS

Workorder: 9907781 Liberty Oil#38/08-12-4292

Lab ID: 9907781002

Date Collected: 5/25/2011 13:54

Matrix: Solid

Sample ID: EX2@10'

Date Received: 5/27/2011 19:28

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	8330		ug/kg	45.0	8260/5035	5/25/11	CPK	6/2/11 20:56	DJB	A
1,2-Dibromoethane	ND		ug/kg	1.7	8260/5035	5/25/11	DJB	6/1/11 22:25	DJB	B
1,2-Dichloroethane	ND		ug/kg	1.7	8260/5035	5/25/11	DJB	6/1/11 22:25	DJB	B
Ethylbenzene	1100		ug/kg	45.0	8260/5035	5/25/11	CPK	6/2/11 20:56	DJB	A
Isopropylbenzene	7.0		ug/kg	1.7	8260/5035	5/25/11	DJB	6/1/11 22:25	DJB	B
Methyl t-Butyl Ether	4020		ug/kg	45.0	8260/5035	5/25/11	CPK	6/2/11 20:56	DJB	A
Naphthalene	5.8		ug/kg	1.7	8260/5035	5/25/11	DJB	6/1/11 22:25	DJB	B
Toluene	10300		ug/kg	225	8260/5035	5/25/11	ECB	6/3/11 21:15	DJB	A
Total Xylenes	2870		ug/kg	135	8260/5035	5/25/11	CPK	6/2/11 20:56	DJB	A
1,2,4-Trimethylbenzene	192		ug/kg	45.0	8260/5035	5/25/11	CPK	6/2/11 20:56	DJB	A
1,3,5-Trimethylbenzene	68.2		ug/kg	1.7	8260/5035	5/25/11	DJB	6/1/11 22:25	DJB	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	114		%	71-146	8260/5035	5/25/11	CPK	6/2/11 20:56	DJB	A
4-Bromofluorobenzene (S)	100		%	46-138	8260/5035	5/25/11	CPK	6/2/11 20:56	DJB	A
Dibromofluoromethane (S)	121		%	42-143	8260/5035	5/25/11	CPK	6/2/11 20:56	DJB	A
Toluene-d8 (S)	89.3		%	54-141	8260/5035	5/25/11	CPK	6/2/11 20:56	DJB	A
1,2-Dichloroethane-d4 (S)	77.2		%	71-146	8260/5035	5/25/11	ECB	6/3/11 21:15	DJB	A
4-Bromofluorobenzene (S)	91.2		%	46-138	8260/5035	5/25/11	ECB	6/3/11 21:15	DJB	A
Dibromofluoromethane (S)	84.4		%	42-143	8260/5035	5/25/11	ECB	6/3/11 21:15	DJB	A
Toluene-d8 (S)	72.9		%	54-141	8260/5035	5/25/11	ECB	6/3/11 21:15	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	50.5	2	%	56-124	8260/5035	5/25/11	DJB	6/1/11 22:25	DJB	B
4-Bromofluorobenzene (S)	83.3		%	51-128	8260/5035	5/25/11	DJB	6/1/11 22:25	DJB	B
Dibromofluoromethane (S)	56	1	%	62-123	8260/5035	5/25/11	DJB	6/1/11 22:25	DJB	B
Toluene-d8 (S)	78.6		%	59-131	8260/5035	5/25/11	DJB	6/1/11 22:25	DJB	B
WET CHEMISTRY										
Moisture	23.8		%	0.1	SM20-2540 G			5/31/11 20:30	EZ	D
Total Solids	76.2		%	0.1	SM20-2540 G			5/31/11 20:30	EZ	D
METALS										
Lead, Total	15.4		mg/kg	1.2	SW846 6020A	6/1/11	KMK	6/1/11 23:40	AJB	D1

Sample Comments:

One or more of the method 8260 surrogates were recovered outside of the control limits indicating a significant matrix interference.

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ANALYTICAL RESULTS

Workorder: 9907781 Liberty Oil#38/08-12-4292

Lab ID: **9907781002**

Date Collected: 5/25/2011 13:54

Matrix: Solid

Sample ID: **EX2@10'**

Date Received: 5/27/2011 19:28

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
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Anna G Milliken

Technical Manager

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ANALYTICAL RESULTS

Workorder: 9907781 Liberty Oil#38/08-12-4292

Lab ID: 9907781003

Date Collected: 5/25/2011 14:07

Matrix: Solid

Sample ID: EX3@8'

Date Received: 5/27/2011 19:28

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	1650		ug/kg	48.9	8260/5035	5/25/11	CPK	6/2/11 21:23	DJB	A
1,2-Dibromoethane	ND		ug/kg	1.5	8260/5035	5/25/11	DJB	6/1/11 22:54	DJB	B
1,2-Dichloroethane	ND		ug/kg	1.5	8260/5035	5/25/11	DJB	6/1/11 22:54	DJB	B
Ethylbenzene	14500		ug/kg	489	8260/5035	5/25/11	ECB	6/3/11 20:21	DJB	A
Isopropylbenzene	2190		ug/kg	48.9	8260/5035	5/25/11	CPK	6/2/11 21:23	DJB	A
Methyl t-Butyl Ether	22.4		ug/kg	1.5	8260/5035	5/25/11	DJB	6/1/11 22:54	DJB	B
Naphthalene	4410		ug/kg	97.9	8260/5035	5/25/11	CPK	6/2/11 21:23	DJB	A
Toluene	22100		ug/kg	489	8260/5035	5/25/11	ECB	6/3/11 20:21	DJB	A
Total Xylenes	86100		ug/kg	1470	8260/5035	5/25/11	ECB	6/3/11 20:21	DJB	A
1,2,4-Trimethylbenzene	54600		ug/kg	489	8260/5035	5/25/11	ECB	6/3/11 20:21	DJB	A
1,3,5-Trimethylbenzene	17700		ug/kg	489	8260/5035	5/25/11	ECB	6/3/11 20:21	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	71-146	8260/5035	5/25/11	CPK	6/2/11 21:23	DJB	A
4-Bromofluorobenzene (S)	97.1		%	46-138	8260/5035	5/25/11	CPK	6/2/11 21:23	DJB	A
Dibromofluoromethane (S)	99.3		%	42-143	8260/5035	5/25/11	CPK	6/2/11 21:23	DJB	A
Toluene-d8 (S)	81		%	54-141	8260/5035	5/25/11	CPK	6/2/11 21:23	DJB	A
1,2-Dichloroethane-d4 (S)	94.6		%	71-146	8260/5035	5/25/11	ECB	6/3/11 20:21	DJB	A
4-Bromofluorobenzene (S)	96.9		%	46-138	8260/5035	5/25/11	ECB	6/3/11 20:21	DJB	A
Dibromofluoromethane (S)	94.7		%	42-143	8260/5035	5/25/11	ECB	6/3/11 20:21	DJB	A
Toluene-d8 (S)	82.8		%	54-141	8260/5035	5/25/11	ECB	6/3/11 20:21	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	30.1	4	%	56-124	8260/5035	5/25/11	DJB	6/1/11 22:54	DJB	B
4-Bromofluorobenzene (S)	87.9		%	51-128	8260/5035	5/25/11	DJB	6/1/11 22:54	DJB	B
Dibromofluoromethane (S)	49.2	3	%	62-123	8260/5035	5/25/11	DJB	6/1/11 22:54	DJB	B
Toluene-d8 (S)	57	5	%	59-131	8260/5035	5/25/11	DJB	6/1/11 22:54	DJB	B
WET CHEMISTRY										
Moisture	12.7		%	0.1	SM20-2540 G			5/31/11 20:30	EZ	D
Total Solids	87.3		%	0.1	SM20-2540 G			5/31/11 20:30	EZ	D
METALS										
Lead, Total	9.7		mg/kg	1.0	SW846 6020A	6/1/11	KMK	6/1/11 23:43	AJB	D1

Sample Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits indicating a significant matrix interference.

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ANALYTICAL RESULTS

Workorder: 9907781 Liberty Oil#38/08-12-4292

Lab ID: 9907781003

Date Collected: 5/25/2011 14:07

Matrix: Solid

Sample ID: EX3@8'

Date Received: 5/27/2011 19:28

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
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One or more of the method 8260 surrogates were recovered outside of the control limits indicating a significant matrix interference.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9907781 Liberty Oil#38/08-12-4292

Lab ID: 9907781004

Date Collected: 5/25/2011 14:23

Matrix: Solid

Sample ID: EX4@8.5'

Date Received: 5/27/2011 19:28

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	114		ug/kg	2.2	8260/5035	5/25/11	DJB	6/1/11 23:24	DJB	B
1,2-Dibromoethane	ND		ug/kg	2.2	8260/5035	5/25/11	DJB	6/1/11 23:24	DJB	B
1,2-Dichloroethane	ND		ug/kg	2.2	8260/5035	5/25/11	DJB	6/1/11 23:24	DJB	B
Ethylbenzene	4870		ug/kg	57.8	8260/5035	5/25/11	CPK	6/2/11 21:50	DJB	A
Isopropylbenzene	185		ug/kg	2.2	8260/5035	5/25/11	DJB	6/1/11 23:24	DJB	B
Methyl t-Butyl Ether	12.7		ug/kg	2.2	8260/5035	5/25/11	DJB	6/1/11 23:24	DJB	B
Naphthalene	3220		ug/kg	116	8260/5035	5/25/11	CPK	6/2/11 21:50	DJB	A
Toluene	4080		ug/kg	57.8	8260/5035	5/25/11	CPK	6/2/11 21:50	DJB	A
Total Xylenes	29500		ug/kg	173	8260/5035	5/25/11	CPK	6/2/11 21:50	DJB	A
1,2,4-Trimethylbenzene	18900		ug/kg	289	8260/5035	5/25/11	ECB	6/3/11 21:43	DJB	A
1,3,5-Trimethylbenzene	6010	6	ug/kg	57.8	8260/5035	5/25/11	CPK	6/2/11 21:50	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	71-146	8260/5035	5/25/11	CPK	6/2/11 21:50	DJB	A
4-Bromofluorobenzene (S)	96.9		%	46-138	8260/5035	5/25/11	CPK	6/2/11 21:50	DJB	A
Dibromofluoromethane (S)	100		%	42-143	8260/5035	5/25/11	CPK	6/2/11 21:50	DJB	A
Toluene-d8 (S)	86.4		%	54-141	8260/5035	5/25/11	CPK	6/2/11 21:50	DJB	A
1,2-Dichloroethane-d4 (S)	90.4		%	71-146	8260/5035	5/25/11	ECB	6/3/11 21:43	DJB	A
4-Bromofluorobenzene (S)	103		%	46-138	8260/5035	5/25/11	ECB	6/3/11 21:43	DJB	A
Dibromofluoromethane (S)	98.5		%	42-143	8260/5035	5/25/11	ECB	6/3/11 21:43	DJB	A
Toluene-d8 (S)	84.9		%	54-141	8260/5035	5/25/11	ECB	6/3/11 21:43	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	52.9	7	%	56-124	8260/5035	5/25/11	DJB	6/1/11 23:24	DJB	B
4-Bromofluorobenzene (S)	85.5		%	51-128	8260/5035	5/25/11	DJB	6/1/11 23:24	DJB	B
Dibromofluoromethane (S)	68		%	62-123	8260/5035	5/25/11	DJB	6/1/11 23:24	DJB	B
Toluene-d8 (S)	87.7		%	59-131	8260/5035	5/25/11	DJB	6/1/11 23:24	DJB	B
WET CHEMISTRY										
Moisture	11.2		%	0.1	SM20-2540 G			5/31/11 20:30	EZ	D
Total Solids	88.8		%	0.1	SM20-2540 G			5/31/11 20:30	EZ	D
METALS										
Lead, Total	9.7		mg/kg	1.1	SW846 6020A	6/1/11	KMK	6/1/11 23:46	AJB	D1

Sample Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits indicating a significant matrix interference.

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ANALYTICAL RESULTS

Workorder: 9907781 Liberty Oil#38/08-12-4292

Lab ID: **9907781004**

Date Collected: 5/25/2011 14:23

Matrix: Solid

Sample ID: **EX4@8.5'**

Date Received: 5/27/2011 19:28

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
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One or more of the method 8260 surrogates were recovered outside of the control limits indicating a significant matrix interference.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9907781 Liberty Oil#38/08-12-4292

Lab ID: 9907781005

Date Collected: 5/25/2011 14:45

Matrix: Solid

Sample ID: EX5@9.5'

Date Received: 5/27/2011 19:28

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	1870		ug/kg	48.1	8260/5035	5/25/11	CPK	6/2/11 22:18	DJB	A
1,2-Dibromoethane	ND		ug/kg	2.2	8260/5035	5/25/11	DJB	6/1/11 23:53	DJB	B
1,2-Dichloroethane	ND		ug/kg	2.2	8260/5035	5/25/11	DJB	6/1/11 23:53	DJB	B
Ethylbenzene	9970		ug/kg	481	8260/5035	5/25/11	ECB	6/3/11 20:48	DJB	A
Isopropylbenzene	211		ug/kg	2.2	8260/5035	5/25/11	DJB	6/1/11 23:53	DJB	B
Methyl t-Butyl Ether	20.6		ug/kg	2.2	8260/5035	5/25/11	DJB	6/1/11 23:53	DJB	B
Naphthalene	5360		ug/kg	96.2	8260/5035	5/25/11	CPK	6/2/11 22:18	DJB	A
Toluene	27800		ug/kg	481	8260/5035	5/25/11	ECB	6/3/11 20:48	DJB	A
Total Xylenes	55600		ug/kg	1440	8260/5035	5/25/11	ECB	6/3/11 20:48	DJB	A
1,2,4-Trimethylbenzene	41600		ug/kg	481	8260/5035	5/25/11	ECB	6/3/11 20:48	DJB	A
1,3,5-Trimethylbenzene	11800		ug/kg	481	8260/5035	5/25/11	ECB	6/3/11 20:48	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	99.3		%	71-146	8260/5035	5/25/11	CPK	6/2/11 22:18	DJB	A
4-Bromofluorobenzene (S)	87.3		%	46-138	8260/5035	5/25/11	CPK	6/2/11 22:18	DJB	A
Dibromofluoromethane (S)	88.2		%	42-143	8260/5035	5/25/11	CPK	6/2/11 22:18	DJB	A
Toluene-d8 (S)	82.2		%	54-141	8260/5035	5/25/11	CPK	6/2/11 22:18	DJB	A
1,2-Dichloroethane-d4 (S)	97.8		%	71-146	8260/5035	5/25/11	ECB	6/3/11 20:48	DJB	A
4-Bromofluorobenzene (S)	93.2		%	46-138	8260/5035	5/25/11	ECB	6/3/11 20:48	DJB	A
Dibromofluoromethane (S)	100		%	42-143	8260/5035	5/25/11	ECB	6/3/11 20:48	DJB	A
Toluene-d8 (S)	84.1		%	54-141	8260/5035	5/25/11	ECB	6/3/11 20:48	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	46.5	9	%	56-124	8260/5035	5/25/11	DJB	6/1/11 23:53	DJB	B
4-Bromofluorobenzene (S)	89.7		%	51-128	8260/5035	5/25/11	DJB	6/1/11 23:53	DJB	B
Dibromofluoromethane (S)	61.2	8	%	62-123	8260/5035	5/25/11	DJB	6/1/11 23:53	DJB	B
Toluene-d8 (S)	66.9		%	59-131	8260/5035	5/25/11	DJB	6/1/11 23:53	DJB	B
WET CHEMISTRY										
Moisture	14.5		%	0.1	SM20-2540 G			5/31/11 20:30	EZ	D
Total Solids	85.5		%	0.1	SM20-2540 G			5/31/11 20:30	EZ	D
METALS										
Lead, Total	11.7		mg/kg	0.99	SW846 6020A	6/1/11	KMK	6/1/11 23:58	AJB	D1

Sample Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits indicating a significant matrix interference.

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ANALYTICAL RESULTS

Workorder: 9907781 Liberty Oil#38/08-12-4292

Lab ID: 9907781005

Date Collected: 5/25/2011 14:45

Matrix: Solid

Sample ID: EX5@9.5'

Date Received: 5/27/2011 19:28

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
------------	---------	------	-------	-----	--------	-------------	----------	----	------

One or more of the method 8260 surrogates were recovered outside of the control limits indicating a significant matrix interference.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9907781 Liberty Oil#38/08-12-4292

PARAMETER QUALIFIERS\FLAGS

- [1] The surrogate Dibromofluoromethane for method 8260/5035 was outside of control limits. The % Recovery was reported as 56 and the control limits were 62 to 123. This result was reported at a dilution of 1.
- [2] The surrogate 1,2-Dichloroethane-d4 for method 8260/5035 was outside of control limits. The % Recovery was reported as 50.5 and the control limits were 56 to 124. This result was reported at a dilution of 1.
- [3] The surrogate Dibromofluoromethane for method 8260/5035 was outside of control limits. The % Recovery was reported as 49.2 and the control limits were 62 to 123. This result was reported at a dilution of 1.
- [4] The surrogate 1,2-Dichloroethane-d4 for method 8260/5035 was outside of control limits. The % Recovery was reported as 30.1 and the control limits were 56 to 124. This result was reported at a dilution of 1.
- [5] The surrogate Toluene-d8 for method 8260/5035 was outside of control limits. The % Recovery was reported as 57 and the control limits were 59 to 131. This result was reported at a dilution of 1.
- [6] The QC sample type LCS for method 8260/5035 was outside the control limits for the analyte 1,3,5-Trimethylbenzene. The % Recovery was reported as 73.6 and the control limits were 74 to 137.
- [7] The surrogate 1,2-Dichloroethane-d4 for method 8260/5035 was outside of control limits. The % Recovery was reported as 52.9 and the control limits were 56 to 124. This result was reported at a dilution of 1.
- [8] The surrogate Dibromofluoromethane for method 8260/5035 was outside of control limits. The % Recovery was reported as 61.2 and the control limits were 62 to 123. This result was reported at a dilution of 1.
- [9] The surrogate 1,2-Dichloroethane-d4 for method 8260/5035 was outside of control limits. The % Recovery was reported as 46.5 and the control limits were 56 to 124. This result was reported at a dilution of 1.

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**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

ALL SHaded AREAS MUST BE COMPLETED BY THE CLIENT
SAMPLED INSTRUCTIONS ON THE BACK

Page 1 of 1

Counter: _____ Tracking #: _____

COC# _____

Co. Name: LOVELL PONT TANK SERVICES Phone: 610.395.4779

Contact (Name): JV/PAT

Address: 536 E. 700 PLANK HAV
DOUGLASSVILLE, PA 19508

Bill to (Address): SAVE POB: _____

Project Name: LOVELL PONT TANK SERVICES ALS Quote #: _____

TAT: ☐ Normal Standard TAT is 10-12 business days. 5 DAY TAT Date Required: _____

☐ Rush-Subject to ALS approval and surcharges. Approved By: _____

Email: X SVE@LOVELLPONTTANK.COM

Fax: Y No: _____

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Matrix	Volume	Enter Number of Containers Per Analysis
1 EXL@11.5' (BASE)		5/24/11	GS	2	1 1
2 EXL@10' (SIDEWALL)		1354	GS	2	1 1
3 EXL@8' (SIDEWALL)		1407	GS	2	1 1
4 EXL@8.5' (SIDEWALL)		1423	GS	2	1 1
5 EXL@9.5' (SIDEWALL)		1445	GS	2	1 1
6					
7					
8					

SAMPLED BY (Please Print): WJ

LOGGED BY (Signature): _____

REVIEWED BY (Signature): _____

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 <u>Robert K. L...</u>	5/27/11	1455	2 <u>D. ...</u>	5/27/11	1455
3 <u>D. ...</u>	5/27	1750	4 <u>SPM</u>	5/27/11	1952
5 <u>LM</u>	5/27	1928	6 <u>SPM</u>	5/27/11	1928
7					
8					
9					
10					

Data Deliverables:

☒ Standard

☐ CLP-Eko

☐ NU-Reduced

☐ NU-Full

☐ If yes, format type: _____

Other: _____

Sum Sample Collected In? ☐ No ☒ Yes

ALS FIELD SERVICES: ☐ Pickup ☐ Lab ☐ Composite Sampling ☐ Rental Equipment ☐ Other

* G=Gravel, C=Composite ** Matrix: AHAZ, DWW=Drinking Water, GW=Groundwater, D=Oil, CL=Other Liquid, SL=Sludge, SO=Soil, RP=Water, WFW=Wastewater

*** Container Type: AG=Amber Glass, CG=Clear Glass, PL=Plastic. Container Size: 250ml, 500ml, 1L, 2L, etc. Preservative: HCl, HNO3, NaOH, etc.

Revised 03/2011

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-110842-1
Client Project/Site: Liberty Oil #38
Revision: 1

For:
Center Point Tank Service
536 E Benjamin Franklin
Douglassville, Pennsylvania 19518

Attn: Rachel Burkart

Jill Miller

Authorized for release by:
4/7/2016 12:36:02 PM

Jill Miller, Project Manager II
(732)549-3900
jill.miller@testamericainc.com

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The test results in this report meet all 2003 NELAP and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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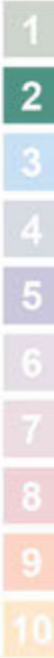


Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Certification Summary	13
Method Summary	14
Chain of Custody	15
Receipt Checklists	18

Sample Summary

Client: Center Point Tank Service
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-110842-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-110842-1	MW-11(5')	Solid	03/22/16 10:25	03/23/16 13:52
460-110842-2	MW-11(11.5')	Solid	03/22/16 10:30	03/23/16 13:52
460-110842-3	SB-1(11.5')	Solid	03/22/16 12:25	03/23/16 13:52
460-110842-4	SB-2(15')	Solid	03/22/16 12:55	03/23/16 13:52
460-110842-5	SB-3(11')	Solid	03/22/16 13:25	03/23/16 13:52
460-110842-6	SB-4(11')	Solid	03/22/16 13:45	03/23/16 13:52
460-110842-7	SB-5(10')	Solid	03/22/16 14:25	03/23/16 13:52
460-110842-8	SB-6(7')	Solid	03/22/16 14:45	03/23/16 13:52
460-110842-9	SB-7(3')	Solid	03/22/16 15:05	03/23/16 13:52
460-110842-10	SB-7(5')	Solid	03/22/16 15:10	03/23/16 13:52
460-110842-11	SB-8(6')	Solid	03/22/16 15:25	03/23/16 13:52

Definitions/Glossary

Client: Center Point Tank Service
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-110842-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Center Point Tank Service
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-110842-1

Job ID: 460-110842-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative 460-110842-1

Comments

No additional comments.

Receipt

The samples were received on 3/23/2016 1:52 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

Revision(1)

Client requested MDL report

Moisture

The sample duplicate precision for the following sample associated with analytical batch 460-359031 was outside control limits: MW-11(5') (460-110842-1), MW-11(11.5') (460-110842-2), SB-1(11.5') (460-110842-3), SB-2(15') (460-110842-4), SB-3(11') (460-110842-5), SB-4(11') (460-110842-6), SB-5(10') (460-110842-7), SB-6(7') (460-110842-8), SB-7(3') (460-110842-9), SB-7(5') (460-110842-10), SB-8(6') (460-110842-11), (460-110906-F-16) and (460-110906-F-16 DU).

GC/MS VOA

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB-8(6') (460-110842-11). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range and due to the abundance of non-target analytes: SB-7(3') (460-110842-9). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: Internal standard (ISTD) response and surrogate recovery for the following samples were outside control limits: MW-11(5') (460-110842-1). The sample was re-analyzed with concurring results in batch 359216. The original set of data has been reported.

Method(s) 8260C: Internal standard (ISTD) response and surrogate recoveries for the following samples were outside control limits: SB-1(11.5') (460-110842-3). The sample was re-analyzed with concurring results in 359077.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Center Point Tank Service
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-110842-1

Client Sample ID: MW-11(5')

Date Collected: 03/22/16 10:25

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-1

Matrix: Solid

Percent Solids: 78.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.27	U *	1.3	0.27	ug/Kg	☒	03/24/16 10:32	03/28/16 10:39	1
1,2-Dibromoethane	0.16	U *	1.3	0.16	ug/Kg	☒	03/24/16 10:32	03/28/16 10:39	1
1,2-Dichloroethane	0.15	U	1.3	0.15	ug/Kg	☒	03/24/16 10:32	03/28/16 10:39	1
Ethylbenzene	0.24	U *	1.3	0.24	ug/Kg	☒	03/24/16 10:32	03/28/16 10:39	1
Isopropylbenzene	0.23	U *	1.3	0.23	ug/Kg	☒	03/24/16 10:32	03/28/16 10:39	1
Naphthalene	0.16	U *	1.3	0.16	ug/Kg	☒	03/24/16 10:32	03/28/16 10:39	1
Toluene	0.25	J *	1.3	0.25	ug/Kg	☒	03/24/16 10:32	03/28/16 10:39	1
1,2,4-Trimethylbenzene	0.45	U *	1.3	0.45	ug/Kg	☒	03/24/16 10:32	03/28/16 10:39	1
1,3,5-Trimethylbenzene	0.17	U *	1.3	0.17	ug/Kg	☒	03/24/16 10:32	03/28/16 10:39	1
Xylenes, Total	0.15	U *	2.7	0.15	ug/Kg	☒	03/24/16 10:32	03/28/16 10:39	1
Methyl tert-butyl ether	0.23	U	1.3	0.23	ug/Kg	☒	03/24/16 10:32	03/28/16 10:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Bromofluorobenzene	113	*	67 - 126	03/24/16 10:32	03/28/16 10:39	1
Dibromofluoromethane (Surr)	121		61 - 149	03/24/16 10:32	03/28/16 10:39	1
1,2-Dichloroethane-d4 (Surr)	119		78 - 135	03/24/16 10:32	03/28/16 10:39	1
Toluene-d8 (Surr)	137	* X	73 - 121	03/24/16 10:32	03/28/16 10:39	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110		2.0		mg/Kg	☒	03/25/16 18:50	03/26/16 17:07	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.1		1.0		%			03/27/16 17:34	1
Percent Solids	78.9		1.0		%			03/27/16 17:34	1

Client Sample ID: MW-11(11.5')

Date Collected: 03/22/16 10:30

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-2

Matrix: Solid

Percent Solids: 91.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.18	U	0.91	0.18	ug/Kg	☒	03/24/16 10:32	03/28/16 11:04	1
1,2-Dibromoethane	0.11	U	0.91	0.11	ug/Kg	☒	03/24/16 10:32	03/28/16 11:04	1
1,2-Dichloroethane	0.10	U	0.91	0.10	ug/Kg	☒	03/24/16 10:32	03/28/16 11:04	1
Ethylbenzene	0.16	U	0.91	0.16	ug/Kg	☒	03/24/16 10:32	03/28/16 11:04	1
Isopropylbenzene	0.16	U	0.91	0.16	ug/Kg	☒	03/24/16 10:32	03/28/16 11:04	1
Naphthalene	0.11	U	0.91	0.11	ug/Kg	☒	03/24/16 10:32	03/28/16 11:04	1
Toluene	0.17	U	0.91	0.17	ug/Kg	☒	03/24/16 10:32	03/28/16 11:04	1
1,2,4-Trimethylbenzene	0.31	U	0.91	0.31	ug/Kg	☒	03/24/16 10:32	03/28/16 11:04	1
1,3,5-Trimethylbenzene	0.12	U	0.91	0.12	ug/Kg	☒	03/24/16 10:32	03/28/16 11:04	1
Xylenes, Total	0.10	U	1.8	0.10	ug/Kg	☒	03/24/16 10:32	03/28/16 11:04	1
Methyl tert-butyl ether	0.16	U	0.91	0.16	ug/Kg	☒	03/24/16 10:32	03/28/16 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Bromofluorobenzene	90		67 - 126	03/24/16 10:32	03/28/16 11:04	1
Dibromofluoromethane (Surr)	97		61 - 149	03/24/16 10:32	03/28/16 11:04	1
1,2-Dichloroethane-d4 (Surr)	99		78 - 135	03/24/16 10:32	03/28/16 11:04	1
Toluene-d8 (Surr)	92		73 - 121	03/24/16 10:32	03/28/16 11:04	1

TestAmerica Edison

Client Sample Results

Client: Center Point Tank Service
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-110842-1

Client Sample ID: MW-11(11.5')

Date Collected: 03/22/16 10:30

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-2

Matrix: Solid

Percent Solids: 91.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.1		1.8		mg/Kg	☐	03/25/16 18:50	03/26/16 17:10	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.9		1.0		%			03/27/16 17:34	1
Percent Solids	91.1		1.0		%			03/27/16 17:34	1

Client Sample ID: SB-1(11.5')

Date Collected: 03/22/16 12:25

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-3

Matrix: Solid

Percent Solids: 93.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.26	U	1.3	0.26	ug/Kg	☐	03/24/16 10:34	03/28/16 22:04	1
1,2-Dibromoethane	0.16	U	1.3	0.16	ug/Kg	☐	03/24/16 10:34	03/28/16 22:04	1
1,2-Dichloroethane	0.14	U	1.3	0.14	ug/Kg	☐	03/24/16 10:34	03/28/16 22:04	1
Ethylbenzene	0.23	U	1.3	0.23	ug/Kg	☐	03/24/16 10:34	03/28/16 22:04	1
Isopropylbenzene	0.22	U	1.3	0.22	ug/Kg	☐	03/24/16 10:34	03/28/16 22:04	1
Naphthalene	0.16	U *	1.3	0.16	ug/Kg	☐	03/24/16 10:34	03/28/16 22:04	1
Toluene	0.34	J	1.3	0.25	ug/Kg	☐	03/24/16 10:34	03/28/16 22:04	1
1,2,4-Trimethylbenzene	0.44	U *	1.3	0.44	ug/Kg	☐	03/24/16 10:34	03/28/16 22:04	1
1,3,5-Trimethylbenzene	0.17	U *	1.3	0.17	ug/Kg	☐	03/24/16 10:34	03/28/16 22:04	1
Xylenes, Total	0.14	U	2.6	0.14	ug/Kg	☐	03/24/16 10:34	03/28/16 22:04	1
Methyl tert-butyl ether	0.22	U	1.3	0.22	ug/Kg	☐	03/24/16 10:34	03/28/16 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Bromofluorobenzene	134	* X	67 - 126	03/24/16 10:34	03/28/16 22:04	1
Dibromofluoromethane (Surr)	109		61 - 149	03/24/16 10:34	03/28/16 22:04	1
1,2-Dichloroethane-d4 (Surr)	110		78 - 135	03/24/16 10:34	03/28/16 22:04	1
Toluene-d8 (Surr)	128	X	73 - 121	03/24/16 10:34	03/28/16 22:04	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.0		1.7		mg/Kg	☐	03/25/16 18:50	03/26/16 17:14	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.6		1.0		%			03/27/16 17:34	1
Percent Solids	93.4		1.0		%			03/27/16 17:34	1

Client Sample ID: SB-2(15')

Date Collected: 03/22/16 12:55

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-4

Matrix: Solid

Percent Solids: 92.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.16	J	0.76	0.15	ug/Kg	☐	03/24/16 10:34	03/28/16 22:29	1
1,2-Dibromoethane	0.091	U	0.76	0.091	ug/Kg	☐	03/24/16 10:34	03/28/16 22:29	1
1,2-Dichloroethane	0.084	U	0.76	0.084	ug/Kg	☐	03/24/16 10:34	03/28/16 22:29	1
Ethylbenzene	0.14	U	0.76	0.14	ug/Kg	☐	03/24/16 10:34	03/28/16 22:29	1
Isopropylbenzene	0.13	U	0.76	0.13	ug/Kg	☐	03/24/16 10:34	03/28/16 22:29	1

TestAmerica Edison

Client Sample Results

Client: Center Point Tank Service
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-110842-1

Client Sample ID: SB-2(15')

Date Collected: 03/22/16 12:55

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-4

Matrix: Solid

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.091	U	0.76	0.091	ug/Kg	☒	03/24/16 10:34	03/28/16 22:29	1
Toluene	0.21	J	0.76	0.14	ug/Kg	☒	03/24/16 10:34	03/28/16 22:29	1
1,2,4-Trimethylbenzene	0.26	U	0.76	0.26	ug/Kg	☒	03/24/16 10:34	03/28/16 22:29	1
1,3,5-Trimethylbenzene	0.099	U	0.76	0.099	ug/Kg	☒	03/24/16 10:34	03/28/16 22:29	1
Xylenes, Total	0.089	J	1.5	0.084	ug/Kg	☒	03/24/16 10:34	03/28/16 22:29	1
Methyl tert-butyl ether	0.13	U	0.76	0.13	ug/Kg	☒	03/24/16 10:34	03/28/16 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Bromofluorobenzene	111		67 - 126	03/24/16 10:34	03/28/16 22:29	1
Dibromofluoromethane (Surr)	102		61 - 149	03/24/16 10:34	03/28/16 22:29	1
1,2-Dichloroethane-d4 (Surr)	101		78 - 135	03/24/16 10:34	03/28/16 22:29	1
Toluene-d8 (Surr)	102		73 - 121	03/24/16 10:34	03/28/16 22:29	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	45		1.7		mg/Kg	☒	03/25/16 18:50	03/26/16 17:29	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.1		1.0		%			03/27/16 17:34	1
Percent Solids	92.9		1.0		%			03/27/16 17:34	1

Client Sample ID: SB-3(11')

Date Collected: 03/22/16 13:25

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-5

Matrix: Solid

Percent Solids: 89.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.16	U	0.82	0.16	ug/Kg	☒	03/24/16 10:35	03/28/16 12:17	1
1,2-Dibromoethane	0.099	U	0.82	0.099	ug/Kg	☒	03/24/16 10:35	03/28/16 12:17	1
1,2-Dichloroethane	0.091	U	0.82	0.091	ug/Kg	☒	03/24/16 10:35	03/28/16 12:17	1
Ethylbenzene	0.15	U	0.82	0.15	ug/Kg	☒	03/24/16 10:35	03/28/16 12:17	1
Isopropylbenzene	0.14	U	0.82	0.14	ug/Kg	☒	03/24/16 10:35	03/28/16 12:17	1
Naphthalene	0.099	U	0.82	0.099	ug/Kg	☒	03/24/16 10:35	03/28/16 12:17	1
Toluene	0.16	U	0.82	0.16	ug/Kg	☒	03/24/16 10:35	03/28/16 12:17	1
1,2,4-Trimethylbenzene	0.28	U	0.82	0.28	ug/Kg	☒	03/24/16 10:35	03/28/16 12:17	1
1,3,5-Trimethylbenzene	0.11	U	0.82	0.11	ug/Kg	☒	03/24/16 10:35	03/28/16 12:17	1
Xylenes, Total	0.091	U	1.6	0.091	ug/Kg	☒	03/24/16 10:35	03/28/16 12:17	1
Methyl tert-butyl ether	0.14	U	0.82	0.14	ug/Kg	☒	03/24/16 10:35	03/28/16 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Bromofluorobenzene	98		67 - 126	03/24/16 10:35	03/28/16 12:17	1
Dibromofluoromethane (Surr)	101		61 - 149	03/24/16 10:35	03/28/16 12:17	1
1,2-Dichloroethane-d4 (Surr)	104		78 - 135	03/24/16 10:35	03/28/16 12:17	1
Toluene-d8 (Surr)	97		73 - 121	03/24/16 10:35	03/28/16 12:17	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.4		1.7		mg/Kg	☒	03/25/16 18:50	03/26/16 17:32	4

TestAmerica Edison

Client Sample Results

Client: Center Point Tank Service
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-110842-1

Client Sample ID: SB-3(11')

Date Collected: 03/22/16 13:25

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-5

Matrix: Solid

Percent Solids: 89.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		1.0		%			03/27/16 17:34	1
Percent Solids	89.9		1.0		%			03/27/16 17:34	1

Client Sample ID: SB-4(11')

Date Collected: 03/22/16 13:45

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-6

Matrix: Solid

Percent Solids: 90.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.15	U	0.77	0.15	ug/Kg	☐	03/24/16 10:36	03/28/16 12:41	1
1,2-Dibromoethane	0.092	U	0.77	0.092	ug/Kg	☐	03/24/16 10:36	03/28/16 12:41	1
1,2-Dichloroethane	0.084	U	0.77	0.084	ug/Kg	☐	03/24/16 10:36	03/28/16 12:41	1
Ethylbenzene	0.14	U	0.77	0.14	ug/Kg	☐	03/24/16 10:36	03/28/16 12:41	1
Isopropylbenzene	0.13	U	0.77	0.13	ug/Kg	☐	03/24/16 10:36	03/28/16 12:41	1
Naphthalene	0.55	J	0.77	0.092	ug/Kg	☐	03/24/16 10:36	03/28/16 12:41	1
Toluene	0.18	J	0.77	0.15	ug/Kg	☐	03/24/16 10:36	03/28/16 12:41	1
1,2,4-Trimethylbenzene	0.26	U	0.77	0.26	ug/Kg	☐	03/24/16 10:36	03/28/16 12:41	1
1,3,5-Trimethylbenzene	0.10	U	0.77	0.10	ug/Kg	☐	03/24/16 10:36	03/28/16 12:41	1
Xylenes, Total	0.084	U	1.5	0.084	ug/Kg	☐	03/24/16 10:36	03/28/16 12:41	1
Methyl tert-butyl ether	0.13	U	0.77	0.13	ug/Kg	☐	03/24/16 10:36	03/28/16 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Bromofluorobenzene	92		67 - 126	03/24/16 10:36	03/28/16 12:41	1
Dibromofluoromethane (Surr)	98		61 - 149	03/24/16 10:36	03/28/16 12:41	1
1,2-Dichloroethane-d4 (Surr)	98		78 - 135	03/24/16 10:36	03/28/16 12:41	1
Toluene-d8 (Surr)	93		73 - 121	03/24/16 10:36	03/28/16 12:41	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.5		1.7		mg/Kg	☐	03/25/16 18:50	03/26/16 17:36	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		1.0		%			03/27/16 17:34	1
Percent Solids	90.4		1.0		%			03/27/16 17:34	1

Client Sample ID: SB-5(10')

Date Collected: 03/22/16 14:25

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-7

Matrix: Solid

Percent Solids: 86.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.14	U	0.71	0.14	ug/Kg	☐	03/24/16 10:36	03/28/16 13:05	1
1,2-Dibromoethane	0.085	U	0.71	0.085	ug/Kg	☐	03/24/16 10:36	03/28/16 13:05	1
1,2-Dichloroethane	0.078	U	0.71	0.078	ug/Kg	☐	03/24/16 10:36	03/28/16 13:05	1
Ethylbenzene	0.13	U	0.71	0.13	ug/Kg	☐	03/24/16 10:36	03/28/16 13:05	1
Isopropylbenzene	0.12	U	0.71	0.12	ug/Kg	☐	03/24/16 10:36	03/28/16 13:05	1
Naphthalene	0.085	U	0.71	0.085	ug/Kg	☐	03/24/16 10:36	03/28/16 13:05	1
Toluene	0.13	U	0.71	0.13	ug/Kg	☐	03/24/16 10:36	03/28/16 13:05	1
1,2,4-Trimethylbenzene	0.24	U	0.71	0.24	ug/Kg	☐	03/24/16 10:36	03/28/16 13:05	1
1,3,5-Trimethylbenzene	0.092	U	0.71	0.092	ug/Kg	☐	03/24/16 10:36	03/28/16 13:05	1

TestAmerica Edison

Client Sample Results

Client: Center Point Tank Service
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-110842-1

Client Sample ID: SB-5(10')

Date Collected: 03/22/16 14:25

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-7

Matrix: Solid

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.078	U	1.4	0.078	ug/Kg	☐	03/24/16 10:36	03/28/16 13:05	1
Methyl tert-butyl ether	0.12	U	0.71	0.12	ug/Kg	☐	03/24/16 10:36	03/28/16 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Bromofluorobenzene	94		67 - 126	03/24/16 10:36	03/28/16 13:05	1
Dibromofluoromethane (Surr)	95		61 - 149	03/24/16 10:36	03/28/16 13:05	1
1,2-Dichloroethane-d4 (Surr)	97		78 - 135	03/24/16 10:36	03/28/16 13:05	1
Toluene-d8 (Surr)	95		73 - 121	03/24/16 10:36	03/28/16 13:05	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		1.9		mg/Kg	☐	03/25/16 18:50	03/26/16 17:40	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.5		1.0		%			03/27/16 17:34	1
Percent Solids	86.5		1.0		%			03/27/16 17:34	1

Client Sample ID: SB-6(7')

Date Collected: 03/22/16 14:45

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-8

Matrix: Solid

Percent Solids: 87.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.15	U	0.74	0.15	ug/Kg	☐	03/24/16 10:37	03/28/16 13:29	1
1,2-Dibromoethane	0.089	U	0.74	0.089	ug/Kg	☐	03/24/16 10:37	03/28/16 13:29	1
1,2-Dichloroethane	0.081	U	0.74	0.081	ug/Kg	☐	03/24/16 10:37	03/28/16 13:29	1
Ethylbenzene	0.13	U	0.74	0.13	ug/Kg	☐	03/24/16 10:37	03/28/16 13:29	1
Isopropylbenzene	0.13	U	0.74	0.13	ug/Kg	☐	03/24/16 10:37	03/28/16 13:29	1
Naphthalene	0.089	U	0.74	0.089	ug/Kg	☐	03/24/16 10:37	03/28/16 13:29	1
Toluene	0.14	U	0.74	0.14	ug/Kg	☐	03/24/16 10:37	03/28/16 13:29	1
1,2,4-Trimethylbenzene	0.25	U	0.74	0.25	ug/Kg	☐	03/24/16 10:37	03/28/16 13:29	1
1,3,5-Trimethylbenzene	0.096	U	0.74	0.096	ug/Kg	☐	03/24/16 10:37	03/28/16 13:29	1
Xylenes, Total	0.081	U	1.5	0.081	ug/Kg	☐	03/24/16 10:37	03/28/16 13:29	1
Methyl tert-butyl ether	0.13	U	0.74	0.13	ug/Kg	☐	03/24/16 10:37	03/28/16 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Bromofluorobenzene	93		67 - 126	03/24/16 10:37	03/28/16 13:29	1
Dibromofluoromethane (Surr)	98		61 - 149	03/24/16 10:37	03/28/16 13:29	1
1,2-Dichloroethane-d4 (Surr)	96		78 - 135	03/24/16 10:37	03/28/16 13:29	1
Toluene-d8 (Surr)	95		73 - 121	03/24/16 10:37	03/28/16 13:29	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.4		1.7		mg/Kg	☐	03/25/16 18:50	03/26/16 17:43	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.6		1.0		%			03/27/16 17:34	1
Percent Solids	87.4		1.0		%			03/27/16 17:34	1

TestAmerica Edison

Client Sample Results

Client: Center Point Tank Service
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-110842-1

Client Sample ID: SB-7(3')

Date Collected: 03/22/16 15:05

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-9

Matrix: Solid

Percent Solids: 85.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	36	U	150	36	ug/Kg	☐	03/24/16 10:44	03/27/16 18:16	100
Benzene	1900		150	28	ug/Kg	☐	03/24/16 10:44	03/27/16 18:16	100
Toluene	2400		150	36	ug/Kg	☐	03/24/16 10:44	03/27/16 18:16	100
Ethylbenzene	9900		150	44	ug/Kg	☐	03/24/16 10:44	03/27/16 18:16	100
Xylenes, Total	8200		290	41	ug/Kg	☐	03/24/16 10:44	03/27/16 18:16	100
1,2-Dibromoethane	28	U	150	28	ug/Kg	☐	03/24/16 10:44	03/27/16 18:16	100
Naphthalene	9300		150	38	ug/Kg	☐	03/24/16 10:44	03/27/16 18:16	100
1,2,4-Trimethylbenzene	3200		150	33	ug/Kg	☐	03/24/16 10:44	03/27/16 18:16	100
1,3,5-Trimethylbenzene	1200		150	36	ug/Kg	☐	03/24/16 10:44	03/27/16 18:16	100
Isopropylbenzene	5800		150	46	ug/Kg	☐	03/24/16 10:44	03/27/16 18:16	100
Methyl tert-butyl ether	19	U	150	19	ug/Kg	☐	03/24/16 10:44	03/27/16 18:16	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		69 - 145	03/24/16 10:44	03/27/16 18:16	100
Toluene-d8 (Surr)	102		72 - 136	03/24/16 10:44	03/27/16 18:16	100
Bromofluorobenzene	104		64 - 131	03/24/16 10:44	03/27/16 18:16	100
Dibromofluoromethane (Surr)	106		74 - 134	03/24/16 10:44	03/27/16 18:16	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	44		1.9		mg/Kg	☐	03/25/16 18:50	03/26/16 17:47	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.0		1.0		%			03/27/16 17:34	1
Percent Solids	85.0		1.0		%			03/27/16 17:34	1

Client Sample ID: SB-7(5')

Date Collected: 03/22/16 15:10

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-10

Matrix: Solid

Percent Solids: 88.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.15	U	0.76	0.15	ug/Kg	☐	03/24/16 10:39	03/28/16 13:54	1
1,2-Dibromoethane	0.091	U	0.76	0.091	ug/Kg	☐	03/24/16 10:39	03/28/16 13:54	1
1,2-Dichloroethane	0.083	U	0.76	0.083	ug/Kg	☐	03/24/16 10:39	03/28/16 13:54	1
Ethylbenzene	0.14	U	0.76	0.14	ug/Kg	☐	03/24/16 10:39	03/28/16 13:54	1
Isopropylbenzene	0.13	U	0.76	0.13	ug/Kg	☐	03/24/16 10:39	03/28/16 13:54	1
Naphthalene	0.091	U	0.76	0.091	ug/Kg	☐	03/24/16 10:39	03/28/16 13:54	1
Toluene	0.15	J	0.76	0.14	ug/Kg	☐	03/24/16 10:39	03/28/16 13:54	1
1,2,4-Trimethylbenzene	0.26	U	0.76	0.26	ug/Kg	☐	03/24/16 10:39	03/28/16 13:54	1
1,3,5-Trimethylbenzene	0.098	U	0.76	0.098	ug/Kg	☐	03/24/16 10:39	03/28/16 13:54	1
Xylenes, Total	0.083	U	1.5	0.083	ug/Kg	☐	03/24/16 10:39	03/28/16 13:54	1
Methyl tert-butyl ether	0.16	J	0.76	0.13	ug/Kg	☐	03/24/16 10:39	03/28/16 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Bromofluorobenzene	105		67 - 126	03/24/16 10:39	03/28/16 13:54	1
Dibromofluoromethane (Surr)	109		61 - 149	03/24/16 10:39	03/28/16 13:54	1
1,2-Dichloroethane-d4 (Surr)	110		78 - 135	03/24/16 10:39	03/28/16 13:54	1
Toluene-d8 (Surr)	104		73 - 121	03/24/16 10:39	03/28/16 13:54	1

TestAmerica Edison

Client Sample Results

Client: Center Point Tank Service
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-110842-1

Client Sample ID: SB-7(5')

Date Collected: 03/22/16 15:10

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-10

Matrix: Solid

Percent Solids: 88.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.3		1.7		mg/Kg	☒	03/25/16 18:50	03/29/16 16:19	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.7		1.0		%			03/27/16 17:34	1
Percent Solids	88.3		1.0		%			03/27/16 17:34	1

Client Sample ID: SB-8(6')

Date Collected: 03/22/16 15:25

Date Received: 03/23/16 13:52

Lab Sample ID: 460-110842-11

Matrix: Solid

Percent Solids: 89.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	14	U	55	14	ug/Kg	☒	03/24/16 10:45	03/27/16 17:52	50
Benzene	2400		55	10	ug/Kg	☒	03/24/16 10:45	03/27/16 17:52	50
Toluene	3400		55	14	ug/Kg	☒	03/24/16 10:45	03/27/16 17:52	50
Ethylbenzene	1700		55	16	ug/Kg	☒	03/24/16 10:45	03/27/16 17:52	50
Xylenes, Total	12000		110	15	ug/Kg	☒	03/24/16 10:45	03/27/16 17:52	50
1,2-Dibromoethane	10	U	55	10	ug/Kg	☒	03/24/16 10:45	03/27/16 17:52	50
Naphthalene	700		55	14	ug/Kg	☒	03/24/16 10:45	03/27/16 17:52	50
1,2,4-Trimethylbenzene	4400		55	13	ug/Kg	☒	03/24/16 10:45	03/27/16 17:52	50
1,3,5-Trimethylbenzene	2100		55	14	ug/Kg	☒	03/24/16 10:45	03/27/16 17:52	50
Isopropylbenzene	150		55	18	ug/Kg	☒	03/24/16 10:45	03/27/16 17:52	50
Methyl tert-butyl ether	110		55	7.1	ug/Kg	☒	03/24/16 10:45	03/27/16 17:52	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		69 - 145	03/24/16 10:45	03/27/16 17:52	50
Toluene-d8 (Surr)	96		72 - 136	03/24/16 10:45	03/27/16 17:52	50
Bromofluorobenzene	76		64 - 131	03/24/16 10:45	03/27/16 17:52	50
Dibromofluoromethane (Surr)	106		74 - 134	03/24/16 10:45	03/27/16 17:52	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	26		1.8		mg/Kg	☒	03/25/16 18:50	03/29/16 16:22	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.7		1.0		%			03/27/16 17:34	1
Percent Solids	89.3		1.0		%			03/27/16 17:34	1

TestAmerica Edison

Certification Summary

Client: Center Point Tank Service
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-110842-1

Laboratory: TestAmerica Edison

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-16
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-15 *
New Jersey	NELAP	2	12028	06-30-16
New York	NELAP	2	11452	03-31-17
Pennsylvania	NELAP	3	68-00522	02-28-17
Rhode Island	State Program	1	LAO00132	12-30-16 *
USDA	Federal		NJCA-003-08	04-04-17

* Certification renewal pending - certification considered valid.

TestAmerica Edison

Method Summary

Client: Center Point Tank Service
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-110842-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
6010C	Metals (ICP)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900


TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Page 1 of 2

Name (for report and invoice) Rachel Burkart		Samplers Name (Printed) Rachel Burkart		Site/Project Identification Liberty 0:1 #38	
Company Center Point Tank Services		P.O. # 08-12-4292		State (Location of site): NJ: <input type="checkbox"/> NY: <input type="checkbox"/> Other: PA	
Address 536 E. Bringham Franklin Hwy		Analysis Turnaround Time Standard <input checked="" type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/>		Regulatory Program: 1805T	
City Douglasville PA		Fax 6010385 4977		LAB USE ONLY Job No: 110842 Project No:	
Sample Identification		Date	Time	Matrix	No. of Cont.
MW-11 (5')		3/22/16	1025	SO	4
MW-11 (11.5')			1030		
SB-1 (11.5')			1225		
SB-2 (15')			1255		
SB-3 (11')			1325		
SB-4 (11')			1345		
SB-5 (10')			1425		
SB-6 (7')			1445		
SB-7 (3')			1505		
SB-7 (5')			1510		
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH, 6 = Other DI , 7 = Other W/2 OH		Soil: 1/7		Water: 1/6	
<div style="text-align: center;">  460-110842 Chain of Custody </div>					

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by Carol Blawie	Company CPT	Date / Time 3/23/16 1352	Received by [Signature]	Company TRAC
Relinquished by Michael Malone	Company TRAC	Date / Time 3/23/16 1506	Received by [Signature]	Company TRAC
Relinquished by [Signature]	Company [Signature]	Date / Time 3/23/16 1830	Received by [Signature]	Company [Signature]
Relinquished by [Signature]	Company [Signature]	Date / Time 3/23/16 1945	Received by [Signature]	Company TRAC

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NU312), North Carolina (No. 578)

TAL - 0316 (0715)

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

11/01/99 Page 2 of 2

Page 2 of 2Water Metals Filtered (Yes/No)?

4/7/2016

Job Number:

1872

Number of Coolers:

IR Gun #

100

Cooler Temperatures

RAW		CORRECTED		RAW		CORRECTED		RAW		CORRECTED	
Cooler #1:	10	°C	15	°C	Cooler #4:		°C	Cooler #7:		°C	°C
Cooler #2:		°C		°C	Cooler #5:		°C	Cooler #8:		°C	°C
Cooler #3:		°C		°C	Cooler #6:		°C	Cooler #9:		°C	°C

[illegible]

If pH adjustments are required record the information below:

Sample No(s). adjusted:

Preservative Name/Conc.:

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Login Sample Receipt Checklist

Client: Center Point Tank Service

Job Number: 460-110842-1

Login Number: 110842

List Number: 1

Creator: Gilmore, Julie L

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	IR KOP#1 1.4
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Results Report

Order ID: 8014712

Center Point Tank Services
536 E. Benjamin Franklin Highway
Douglasville, PA 19518

Project: Liberty 38

Attn: Rachel Burkhart

Regulatory ID:

Sample Number: 8014712-01		Site: MW-12 (7.5')		Sample ID:						
Collector: RAB		Collect Date: 01/25/2018 10:12 am		Sample Type: Grab						
Department / Test / Parameter		Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By

Inorganics

Total Solids	87.8	%	SM 2540-G		1	01/26/18	CEK	01/30/18 21:05	MMR
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Metals

Lead	57.8	mg/kg dry	SW 846 6010C	0.581	1	01/30/18	RPV	01/31/18 16:02	RPV
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Volatiles

VOA, 8260, UST

Benzene	171	µg/Kg dry	SW 846 8260B	22.7	50	01/30/18	KED	01/30/18 19:02	KED
1,2-Dibromoethane (EDB)	11.8	µg/Kg dry	SW 846 8260B	3.72	50	01/30/18	KED	01/30/18 19:02	KED
1,2-Dichloroethane	< 227	µg/Kg dry	SW 846 8260B	227	50	01/30/18	KED	01/30/18 19:02	KED
Ethyl Benzene	3970	µg/Kg dry	SW 846 8260B	22.7	50	01/30/18	KED	01/30/18 19:02	KED
Isopropylbenzene	861	µg/Kg dry	SW 846 8260B	22.7	50	01/30/18	KED	01/30/18 19:02	KED
Methyl-t-butyl ether (MTBE)	< 22.7	µg/Kg dry	SW 846 8260B	22.7	50	01/30/18	KED	01/30/18 19:02	KED
Naphthalene	2080	µg/Kg dry	SW 846 8260B	22.7	50	01/30/18	KED	01/30/18 19:02	KED
Toluene	95.8	µg/Kg dry	SW 846 8260B	22.7	50	01/30/18	KED	01/30/18 19:02	KED
1,3,5-Trimethylbenzene	4770	µg/Kg dry	SW 846 8260B	22.7	50	01/30/18	KED	01/30/18 19:02	KED
Xylenes, Total	3720	µg/Kg dry	SW 846 8260B	45.4	50	01/30/18	KED	01/30/18 19:02	KED
1,2,4-Trimethylbenzene	21500	µg/Kg dry	SW 846 8260B	114	250	02/01/18	KED	02/01/18 22:03	KED

Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recovery)	Analysis Date
Surrogate: Dibromofluoromethane	18.3	µg/L	SW 846 8260B	92%	50	75-139	01/30/18 19:02
Surrogate: 1,2-Dichloroethane-d4	17.7	µg/L	SW 846 8260B	88%	50	81-125	01/30/18 19:02
Surrogate: Toluene-d8	18.7	µg/L	SW 846 8260B	94%	50	84-121	01/30/18 19:02
Surrogate: Bromofluorobenzene	16.7	µg/L	SW 846 8260B	84%	50	72-136	01/30/18 19:02
Surrogate: Dibromofluoromethane	19.2	µg/L	SW 846 8260B	96%	250	75-139	02/01/18 22:03
Surrogate: 1,2-Dichloroethane-d4	19.7	µg/L	SW 846 8260B	98%	250	81-125	02/01/18 22:03
Surrogate: Toluene-d8	20.0	µg/L	SW 846 8260B	100%	250	84-121	02/01/18 22:03
Surrogate: Bromofluorobenzene	19.0	µg/L	SW 846 8260B	95%	250	72-136	02/01/18 22:03

Report Generated On: 02/05/2018 3:31 pm
STL_Results Revision #1.6

8014712
Effective: 07/09/2014



SUBURBAN TESTING LABS

Sample Number: 8014712-02
Collector: RAB

Site: MW-13 (3')
Collect Date: 01/25/2018 12:50 pm

Sample ID:
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Inorganics

Total Solids	84.9	%	SM 2540-G		1	01/26/18	CEK	01/30/18 21:05	MMR
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Metals

Lead	33.5	mg/kg dry	SW 846 6010C	0.601	1	01/30/18	RPV	01/31/18 16:06	RPV
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Volatiles

VOA, 8260, UST

Benzene	< 30.0	µg/Kg dry	SW 846 8260B	30.0	50	01/30/18	KED	01/30/18 19:30	KED
1,2-Dibromoethane (EDB)	< 4.93	µg/Kg dry	SW 846 8260B	4.93	50	01/30/18	KED	01/30/18 19:30	KED
1,2-Dichloroethane	< 300	µg/Kg dry	SW 846 8260B	300	50	01/30/18	KED	01/30/18 19:30	KED
Ethyl Benzene	155	µg/Kg dry	SW 846 8260B	30.0	50	01/30/18	KED	01/30/18 19:30	KED
Isopropylbenzene	41.5	µg/Kg dry	SW 846 8260B	30.0	50	01/30/18	KED	01/30/18 19:30	KED
Methyl-t-butyl ether (MTBE)	< 30.0	µg/Kg dry	SW 846 8260B	30.0	50	01/30/18	KED	01/30/18 19:30	KED
Naphthalene	67.9	µg/Kg dry	SW 846 8260B	30.0	50	01/30/18	KED	01/30/18 19:30	KED
Toluene	80.5	µg/Kg dry	SW 846 8260B	30.0	50	01/30/18	KED	01/30/18 19:30	KED
1,3,5-Trimethylbenzene	192	µg/Kg dry	SW 846 8260B	30.0	50	01/30/18	KED	01/30/18 19:30	KED
Xylenes, Total	348	µg/Kg dry	SW 846 8260B	60.1	50	01/30/18	KED	01/30/18 19:30	KED
1,2,4-Trimethylbenzene	525	µg/Kg dry	SW 846 8260B	30.0	50	02/01/18	KED	02/01/18 14:43	KED

Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recovery)	Analysis Date
Surrogate: Dibromofluoromethane	19.5	µg/L	SW 846 8260B	97%	50	75-139	01/30/18 19:30
Surrogate: 1,2-Dichloroethane-d4	20.1	µg/L	SW 846 8260B	100%	50	81-125	01/30/18 19:30
Surrogate: Toluene-d8	19.9	µg/L	SW 846 8260B	100%	50	84-121	01/30/18 19:30
Surrogate: Bromofluorobenzene	19.6	µg/L	SW 846 8260B	98%	50	72-136	01/30/18 19:30
Surrogate: Dibromofluoromethane	19.3	µg/L	SW 846 8260B	97%	50	75-139	02/01/18 14:43
Surrogate: 1,2-Dichloroethane-d4	20.1	µg/L	SW 846 8260B	101%	50	81-125	02/01/18 14:43
Surrogate: Toluene-d8	19.9	µg/L	SW 846 8260B	100%	50	84-121	02/01/18 14:43
Surrogate: Bromofluorobenzene	19.6	µg/L	SW 846 8260B	98%	50	72-136	02/01/18 14:43

Report Generated On: 02/05/2018 3:31 pm
STL_Results Revision #1.6

8014712
Effective: 07/09/2014

1037F MacArthur Road, Reading, PA 19605 Phone: 800-433-6595 Fax: 610-375-4090 suburbantestinglabs.com



PADEP 06-00208



SUBURBAN TESTING LABS

Sample Number: 8014712-03
Collector: RAB

Site: MW-13 (6.5')
Collect Date: 01/25/2018 1:20 pm

Sample ID:
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Inorganics

Total Solids	88.7	%	SM 2540-G		1	01/26/18	CEK	01/30/18 21:05	MMR
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Metals

Lead	15.0	mg/kg dry	SW 846 6010C	0.553	1	01/30/18	RPV	01/31/18 16:10	RPV
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Volatiles

VOA, 8260, UST

Naphthalene	< 25.8	µg/Kg dry	SW 846 8260B	25.8	50	01/30/18	KED	01/30/18 19:58	KED
Toluene	< 25.8	µg/Kg dry	SW 846 8260B	25.8	50	01/30/18	KED	01/30/18 19:58	KED
1,3,5-Trimethylbenzene	44.8	µg/Kg dry	SW 846 8260B	25.8	50	01/30/18	KED	01/30/18 19:58	KED
1,2,4-Trimethylbenzene	131	µg/Kg dry	SW 846 8260B	25.8	50	02/01/18	KED	02/01/18 14:15	KED
Benzene	1.08	µg/Kg dry	SW 846 8260B	0.564	1	01/30/18	KED	02/02/18 14:30	KED
1,2-Dibromoethane (EDB)	< 0.092	µg/Kg dry	SW 846 8260B	0.092	1	01/30/18	KED	02/02/18 14:30	KED
1,2-Dichloroethane	< 5.64	µg/Kg dry	SW 846 8260B	5.64	1	01/30/18	KED	02/02/18 14:30	KED
Ethyl Benzene	2.94	µg/Kg dry	SW 846 8260B	0.564	1	01/30/18	KED	02/02/18 14:30	KED
Isopropylbenzene	1.41	µg/Kg dry	SW 846 8260B	0.564	1	01/30/18	KED	02/02/18 14:30	KED
Methyl-t-butyl ether (MTBE)	< 0.564	µg/Kg dry	SW 846 8260B	0.564	1	01/30/18	KED	02/02/18 14:30	KED
Xylenes, Total	2.87	µg/Kg dry	SW 846 8260B	1.13	1	01/30/18	KED	02/02/18 14:30	KED

Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recovery)	Analysis Date
Surrogate: Dibromofluoromethane	19.2	µg/L	SW 846 8260B	96%	50	75-139	01/30/18 19:58
Surrogate: 1,2-Dichloroethane-d4	20.2	µg/L	SW 846 8260B	101%	50	81-125	01/30/18 19:58
Surrogate: Toluene-d8	19.9	µg/L	SW 846 8260B	100%	50	84-121	01/30/18 19:58
Surrogate: Bromofluorobenzene	19.5	µg/L	SW 846 8260B	98%	50	72-136	01/30/18 19:58
Surrogate: Dibromofluoromethane	19.4	µg/L	SW 846 8260B	97%	50	75-139	02/01/18 14:15
Surrogate: 1,2-Dichloroethane-d4	20.4	µg/L	SW 846 8260B	102%	50	81-125	02/01/18 14:15
Surrogate: Bromofluorobenzene	19.0	µg/L	SW 846 8260B	95%	50	72-136	02/01/18 14:15
Surrogate: Dibromofluoromethane	98.5	µg/L	SW 846 8260B	99%	1	75-139	02/02/18 14:30
Surrogate: 1,2-Dichloroethane-d4	103	µg/L	SW 846 8260B	103%	1	81-125	02/02/18 14:30
Surrogate: Toluene-d8	100	µg/L	SW 846 8260B	100%	1	84-121	02/02/18 14:30
Surrogate: Bromofluorobenzene	79.0	µg/L	SW 846 8260B	79%	1	72-136	02/02/18 14:30

Report Generated On: 02/05/2018 3:31 pm
STL_Results Revision #1.6

8014712
Effective: 07/09/2014





SUBURBAN TESTING LABS

Sample Number: 8014712-04 Site: SB-9 (3.5') Sample ID:
Collector: RAB Collect Date: 01/25/2018 3:11 pm Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Inorganics

Total Solids	83.6	%	SM 2540-G		1	01/26/18	CEK	01/30/18 21:05	MMR
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Metals

Lead	7.85	mg/kg dry	SW 846 6010C	0.564	1	01/30/18	RPV	01/31/18 16:14	RPV
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Volatiles

VOA, 8260, UST

Naphthalene	< 28.1	µg/Kg dry	SW 846 8260B	28.1	50	01/30/18	KED	01/30/18 20:25	KED
Toluene	< 28.1	µg/Kg dry	SW 846 8260B	28.1	50	01/30/18	KED	01/30/18 20:25	KED
Benzene	< 0.556	µg/Kg dry	SW 846 8260B	0.556	1	01/30/18	KED	02/02/18 15:00	KED
1,2-Dibromoethane (EDB)	< 0.091	µg/Kg dry	SW 846 8260B	0.091	1	01/30/18	KED	02/02/18 15:00	KED
1,2-Dichloroethane	< 5.56	µg/Kg dry	SW 846 8260B	5.56	1	01/30/18	KED	02/02/18 15:00	KED
Ethyl Benzene	< 0.556	µg/Kg dry	SW 846 8260B	0.556	1	01/30/18	KED	02/02/18 15:00	KED
Isopropylbenzene	< 0.556	µg/Kg dry	SW 846 8260B	0.556	1	01/30/18	KED	02/02/18 15:00	KED
Methyl-t-butyl ether (MTBE)	< 0.556	µg/Kg dry	SW 846 8260B	0.556	1	01/30/18	KED	02/02/18 15:00	KED
1,3,5-Trimethylbenzene	< 0.556	µg/Kg dry	SW 846 8260B	0.556	1	01/30/18	KED	02/02/18 15:00	KED
1,2,4-Trimethylbenzene	< 0.556	µg/Kg dry	SW 846 8260B	0.556	1	01/30/18	KED	02/02/18 15:00	KED
Xylenes, Total	< 1.11	µg/Kg dry	SW 846 8260B	1.11	1	01/30/18	KED	02/02/18 15:00	KED

Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recovery)	Analysis Date
Surrogate: Dibromofluoromethane	19.3	µg/L	SW 846 8260B	97%	50	75-139	01/30/18 20:25
Surrogate: 1,2-Dichloroethane-d4	20.3	µg/L	SW 846 8260B	101%	50	81-125	01/30/18 20:25
Surrogate: Toluene-d8	19.9	µg/L	SW 846 8260B	100%	50	84-121	01/30/18 20:25
Surrogate: Bromofluorobenzene	19.7	µg/L	SW 846 8260B	98%	50	72-136	01/30/18 20:25
Surrogate: Dibromofluoromethane	99.1	µg/L	SW 846 8260B	99%	1	75-139	02/02/18 15:00
Surrogate: 1,2-Dichloroethane-d4	106	µg/L	SW 846 8260B	106%	1	81-125	02/02/18 15:00
Surrogate: Toluene-d8	99.6	µg/L	SW 846 8260B	100%	1	84-121	02/02/18 15:00
Surrogate: Bromofluorobenzene	84.1	µg/L	SW 846 8260B	84%	1	72-136	02/02/18 15:00

Report Generated On: 02/05/2018 3:31 pm 8014712
STL_Results Revision #1.6 Effective: 07/09/2014

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PADEP 06-00208



SUBURBAN TESTING LABS

Sample Number: 8014712-05 Site: SB-10 (3.5') Sample ID:
Collector: RAB Collect Date: 01/25/2018 3:35 pm Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Inorganics

Total Solids	84.4	%	SM 2540-G		1	01/26/18	CEK	01/26/18 20:54	CBE
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Metals

Lead	9.62	mg/kg dry	SW 846 6010C	0.617	1	01/30/18	RPV	01/31/18 16:18	RPV
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Volatiles

VOA, 8260, UST

Naphthalene	< 25.9	µg/Kg dry	SW 846 8260B	25.9	50	01/30/18	KED	01/30/18 20:53	KED
Toluene	< 25.9	µg/Kg dry	SW 846 8260B	25.9	50	01/30/18	KED	01/30/18 20:53	KED
Benzene	< 0.558	µg/Kg dry	SW 846 8260B	0.558	1	01/30/18	KED	02/02/18 15:30	KED
1,2-Dibromoethane (EDB)	< 0.091	µg/Kg dry	SW 846 8260B	0.091	1	01/30/18	KED	02/02/18 15:30	KED
1,2-Dichloroethane	< 5.58	µg/Kg dry	SW 846 8260B	5.58	1	01/30/18	KED	02/02/18 15:30	KED
Ethyl Benzene	< 0.558	µg/Kg dry	SW 846 8260B	0.558	1	01/30/18	KED	02/02/18 15:30	KED
Isopropylbenzene	< 0.558	µg/Kg dry	SW 846 8260B	0.558	1	01/30/18	KED	02/02/18 15:30	KED
Methyl-t-butyl ether (MTBE)	< 0.558	µg/Kg dry	SW 846 8260B	0.558	1	01/30/18	KED	02/02/18 15:30	KED
1,3,5-Trimethylbenzene	< 0.558	µg/Kg dry	SW 846 8260B	0.558	1	01/30/18	KED	02/02/18 15:30	KED
1,2,4-Trimethylbenzene	< 0.558	µg/Kg dry	SW 846 8260B	0.558	1	01/30/18	KED	02/02/18 15:30	KED
Xylenes, Total	< 1.12	µg/Kg dry	SW 846 8260B	1.12	1	01/30/18	KED	02/02/18 15:30	KED

Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recovery)	Analysis Date
Surrogate: Dibromofluoromethane	19.1	µg/L	SW 846 8260B	95%	50	75-139	01/30/18 20:53
Surrogate: 1,2-Dichloroethane-d4	20.0	µg/L	SW 846 8260B	100%	50	81-125	01/30/18 20:53
Surrogate: Toluene-d8	19.6	µg/L	SW 846 8260B	98%	50	84-121	01/30/18 20:53
Surrogate: Bromofluorobenzene	19.8	µg/L	SW 846 8260B	99%	50	72-136	01/30/18 20:53
Surrogate: Dibromofluoromethane	98.5	µg/L	SW 846 8260B	98%	1	75-139	02/02/18 15:30
Surrogate: 1,2-Dichloroethane-d4	104	µg/L	SW 846 8260B	104%	1	81-125	02/02/18 15:30
Surrogate: Toluene-d8	98.7	µg/L	SW 846 8260B	99%	1	84-121	02/02/18 15:30
Surrogate: Bromofluorobenzene	76.7	µg/L	SW 846 8260B	77%	1	72-136	02/02/18 15:30

Report Generated On: 02/05/2018 3:31 pm
STL_Results Revision #1.6

8014712
Effective: 07/09/2014





SUBURBAN TESTING LABS

Sample Number: 8014712-06	Site: SB-11 (4')	Sample ID:
Collector: RAB	Collect Date: 01/25/2018 3:52 pm	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Inorganics

Total Solids	91.3	%	SM 2540-G		1	01/26/18	CEK	01/26/18 20:54	CBE
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Metals

Lead	41.8	mg/kg dry	SW 846 6010C	0.559	1	01/30/18	RPV	01/31/18 16:31	RPV
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Volatiles

VOA, 8260, UST

Benzene	291	µg/Kg dry	SW 846 8260B	28.4	50	01/30/18	KED	01/30/18 21:21	KED
1,2-Dibromoethane (EDB)	< 4.66	µg/Kg dry	SW 846 8260B	4.66	50	01/30/18	KED	01/30/18 21:21	KED
1,2-Dichloroethane	< 284	µg/Kg dry	SW 846 8260B	284	50	01/30/18	KED	01/30/18 21:21	KED
Ethyl Benzene	107	µg/Kg dry	SW 846 8260B	28.4	50	01/30/18	KED	01/30/18 21:21	KED
Isopropylbenzene	28.4	µg/Kg dry	SW 846 8260B	28.4	50	01/30/18	KED	01/30/18 21:21	KED
Methyl-t-butyl ether (MTBE)	< 28.4	µg/Kg dry	SW 846 8260B	28.4	50	01/30/18	KED	01/30/18 21:21	KED
Naphthalene	342	µg/Kg dry	SW 846 8260B	28.4	50	01/30/18	KED	01/30/18 21:21	KED
Toluene	225	µg/Kg dry	SW 846 8260B	28.4	50	01/30/18	KED	01/30/18 21:21	KED
1,3,5-Trimethylbenzene	116	µg/Kg dry	SW 846 8260B	28.4	50	01/30/18	KED	01/30/18 21:21	KED
1,2,4-Trimethylbenzene	153	µg/Kg dry	SW 846 8260B	28.4	50	01/30/18	KED	01/30/18 21:21	KED
Xylenes, Total	467	µg/Kg dry	SW 846 8260B	56.8	50	01/30/18	KED	01/30/18 21:21	KED

Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recovery)	Analysis Date
Surrogate: Dibromofluoromethane	19.1	µg/L	SW 846 8260B	95%	50	75-139	01/30/18 21:21
Surrogate: 1,2-Dichloroethane-d4	20.0	µg/L	SW 846 8260B	100%	50	81-125	01/30/18 21:21
Surrogate: Toluene-d8	19.6	µg/L	SW 846 8260B	98%	50	84-121	01/30/18 21:21
Surrogate: Bromofluorobenzene	19.3	µg/L	SW 846 8260B	97%	50	72-136	01/30/18 21:21

Report Generated On: 02/05/2018 3:31 pm 8014712
 STL_Results Revision #1.6 Effective: 07/09/2014

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PADEP 06-00208



SUBURBAN TESTING LABS

Sample Number: 8014712-07
Collector: RAB

Site: SB-11 (7')
Collect Date: 01/25/2018 3:58 pm

Sample ID:
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Inorganics

Total Solids	85.6	%	SM 2540-G		1	01/26/18	CEK	01/26/18 20:54	CBE
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Metals

Lead	15.1	mg/kg dry	SW 846 6010C	0.573	1	01/30/18	RPV	01/31/18 16:35	RPV
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Volatiles

VOA, 8260, UST

Naphthalene	< 22.6	µg/Kg dry	SW 846 8260B	22.6	50	01/30/18	KED	01/30/18 21:49	KED
Toluene	< 22.6	µg/Kg dry	SW 846 8260B	22.6	50	01/30/18	KED	01/30/18 21:49	KED
Benzene	< 0.547	µg/Kg dry	SW 846 8260B	0.547	1	01/30/18	KED	02/02/18 16:00	KED
1,2-Dibromoethane (EDB)	< 0.090	µg/Kg dry	SW 846 8260B	0.090	1	01/30/18	KED	02/02/18 16:00	KED
1,2-Dichloroethane	< 5.47	µg/Kg dry	SW 846 8260B	5.47	1	01/30/18	KED	02/02/18 16:00	KED
Ethyl Benzene	< 0.547	µg/Kg dry	SW 846 8260B	0.547	1	01/30/18	KED	02/02/18 16:00	KED
Isopropylbenzene	< 0.547	µg/Kg dry	SW 846 8260B	0.547	1	01/30/18	KED	02/02/18 16:00	KED
Methyl-t-butyl ether (MTBE)	< 0.547	µg/Kg dry	SW 846 8260B	0.547	1	01/30/18	KED	02/02/18 16:00	KED
1,3,5-Trimethylbenzene	< 0.547	µg/Kg dry	SW 846 8260B	0.547	1	01/30/18	KED	02/02/18 16:00	KED
1,2,4-Trimethylbenzene	< 0.547	µg/Kg dry	SW 846 8260B	0.547	1	01/30/18	KED	02/02/18 16:00	KED
Xylenes, Total	< 1.09	µg/Kg dry	SW 846 8260B	1.09	1	01/30/18	KED	02/02/18 16:00	KED

Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recovery)	Analysis Date
Surrogate: Dibromofluoromethane	19.1	µg/L	SW 846 8260B	96%	50	75-139	01/30/18 21:49
Surrogate: 1,2-Dichloroethane-d4	19.9	µg/L	SW 846 8260B	99%	50	81-125	01/30/18 21:49
Surrogate: Toluene-d8	19.9	µg/L	SW 846 8260B	99%	50	84-121	01/30/18 21:49
Surrogate: Bromofluorobenzene	19.6	µg/L	SW 846 8260B	98%	50	72-136	01/30/18 21:49
Surrogate: Dibromofluoromethane	98.8	µg/L	SW 846 8260B	99%	1	75-139	02/02/18 16:00
Surrogate: 1,2-Dichloroethane-d4	106	µg/L	SW 846 8260B	106%	1	81-125	02/02/18 16:00
Surrogate: Toluene-d8	99.3	µg/L	SW 846 8260B	99%	1	84-121	02/02/18 16:00
Surrogate: Bromofluorobenzene	82.3	µg/L	SW 846 8260B	82%	1	72-136	02/02/18 16:00

Data Qualifiers:

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

Report Generated On: 02/05/2018 3:31 pm
STL_Results Revision #1.6

8014712
Effective: 07/09/2014

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PADEP 06-00208



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TESTING LABS

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

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Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:

Alana Kopicz
Project Manager

Report Generated On: 02/05/2018 3:31 pm 8014712
STL_Results Revision #1.6 Effective: 07/09/2014





610

8014712
Alana KopiczTAT (Circle One): Standard 24hr / 48hr / 72hr / Other
(Additional charges may apply for rush TAT. If not specified, standard TAT will apply)

Order ID: _____

Client Name: Center Point Tank ServicesAddress: 530 E Benjamin Franklin Hwy
Dan/assui 117 PAPhone: 410 385 4977

Fax: _____

Contact Name: Rachel BurkartEmail: rachel@centerpointtank.comPayment / P.O. Info: 08-12-4292: Liberty 38

Comments:

STL Sample Number	Sample Description / Site ID:	Date Sampled	Time Sampled	Samplers Initials	Test(s) Requested:	Bottle Quantity	See Codes Below				Comments / Field Data:
							Matrix	Sample Type	Bottle Type	Preservative	
	MW-12 (7.5')	1/25/18	1012	RAB	PRUST Leaded & Unleaded gasoline	4	Solid	G	G	O	
	MW-13 (3')		1250	RAB							
	MW-13 (4.5')		1320	RAB							
	SB-9 (3.5')		1511	RAB							
	SB-10 (3.5')		1535	RAB							
	SB-11 (4')		1552	RAB							
	SB-11 (7')	✓	1558	RAB							

Relinquished By:	Date: 1/25/18		Sample Conditions	Matrix Key	Bottle Type Key	Reporting Options
Rachel Burkart	Time: 17:11		Submitted with COC? <input checked="" type="radio"/> Y <input type="radio"/> N	NPW = Non-Potable Water	P = Plastic	[] SDWA Reporting
Received By:	Date: 1/25/18	Temp °C: 4.9 on ice	Number of containers match number on COC? <input checked="" type="radio"/> Y <input type="radio"/> N	Solid = Raw Sludge, Dewatered sludge, soil, etc. (reported as mg/kg)	G = Glass	PWSID: _____
Liam Ze (28)	Time: 17:11	Acceptable: <input checked="" type="radio"/> Y <input type="radio"/> N	PW = Potable Water (not for SDWA compliance)	SDWA = Safe Drinking Water Act Potable Sample	O = Other	[] Fax
Relinquished By:	Date: 1/25/18	Temp °C: 4.9	All containers in tact? <input checked="" type="radio"/> Y <input type="radio"/> N	Sample Type Key	Preservative Key	[] Email
Liam Ze (28)	Time: 17:11	Acceptable: <input checked="" type="radio"/> Y <input type="radio"/> N	Tests within holding times? <input checked="" type="radio"/> Y <input type="radio"/> N	G = Grab	N = Sodium Thiosulfate	[] Other: _____
Received in Lab By:	Date:	Temp °C: _____	40 mL VOA vials free of headspace? <input type="radio"/> Y <input type="radio"/> N	E = Entry Point	A = Ascorbic Acid	[] Return a copy of this form with Report
	Time:	Acceptable: Y / N		R = Raw	H = HNO ₃	
				C = Check	S = H ₂ SO ₄	
				S = Special	OH = NaOH	
				24HC = 24 Hr. Composite	O = Other	
					M = Maximum	
					Residence	
					Required	

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Results Report

Order ID: 8014757

Center Point Tank Services
536 E. Benjamin Franklin Highway
Douglasville, PA 19518

Project: Liberty 38

Attn: Rachel Burkhart

Regulatory ID:

Sample Number: 8014757-01
Collector: RAB

Site: SB-12 (2')
Collect Date: 01/26/2018 9:22 am

Sample ID:
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Inorganics

Total Solids	86.9	%	SM 2540-G		1	01/26/18	CEK	01/30/18 21:05	MMR
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Metals

Lead	34.6	mg/kg dry	SW 846 6010C	0.575	1	01/30/18	RPV	01/31/18 16:39	RPV
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Volatiles

VOA, 8260, UST

Benzene	146	µg/Kg dry	SW 846 8260B	43.9	50	01/30/18	KED	01/30/18 22:16	KED
1,2-Dibromoethane (EDB)	< 7.19	µg/Kg dry	SW 846 8260B	7.19	50	01/30/18	KED	01/30/18 22:16	KED
1,2-Dichloroethane	< 439	µg/Kg dry	SW 846 8260B	439	50	01/30/18	KED	01/30/18 22:16	KED
Ethyl Benzene	112	µg/Kg dry	SW 846 8260B	43.9	50	01/30/18	KED	01/30/18 22:16	KED
Isopropylbenzene	64.0	µg/Kg dry	SW 846 8260B	43.9	50	01/30/18	KED	01/30/18 22:16	KED
Methyl-t-butyl ether (MTBE)	< 43.9	µg/Kg dry	SW 846 8260B	43.9	50	01/30/18	KED	01/30/18 22:16	KED
Naphthalene	91.2	µg/Kg dry	SW 846 8260B	43.9	50	01/30/18	KED	01/30/18 22:16	KED
Toluene	252	µg/Kg dry	SW 846 8260B	43.9	50	01/30/18	KED	01/30/18 22:16	KED
1,3,5-Trimethylbenzene	303	µg/Kg dry	SW 846 8260B	43.9	50	01/30/18	KED	01/30/18 22:16	KED
1,2,4-Trimethylbenzene	346	µg/Kg dry	SW 846 8260B	43.9	50	01/30/18	KED	01/30/18 22:16	KED
Xylenes, Total	997	µg/Kg dry	SW 846 8260B	87.7	50	01/30/18	KED	01/30/18 22:16	KED

Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recovery)	Analysis Date
Surrogate: Dibromofluoromethane	19.1	µg/L	SW 846 8260B	95%	50	75-139	01/30/18 22:16
Surrogate: 1,2-Dichloroethane-d4	20.2	µg/L	SW 846 8260B	101%	50	81-125	01/30/18 22:16
Surrogate: Toluene-d8	19.8	µg/L	SW 846 8260B	99%	50	84-121	01/30/18 22:16
Surrogate: Bromofluorobenzene	19.4	µg/L	SW 846 8260B	97%	50	72-136	01/30/18 22:16

Data Qualifiers:

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

Report Generated On: 02/07/2018 3:55 pm
STL_Results Revision #1.6

8014757
Effective: 07/09/2014



SUBURBAN TESTING LABS

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

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Reviewed and Released By:

Alana Kopicz
Project Manager

Report Generated On: 02/07/2018 3:55 pm 8014757
STL_Results Revision #1.6 Effective: 07/09/2014





**SUBURBAN
TESTING LABS**

610-3



8014757
Alana Kopicz

TAT (Circle One): Standard 24hr / 48hr / 72hr / Other _____
(Additional charges may apply for rush TAT. If not specified, standard TAT will apply)

Order ID: _____

Client Name: Center Point Tank Services

Address: 536 E Benjamin Franklin Hwy
Douglasville GA

Contact Name: Rachel Burkart

Comments:

Phone: 610 385 4577

Fax: _____

Email: Rachel@centerpointtank.com

Address: _____

Payment / P.O. Info: 08-12-4252

Liberty 35

STL Sample Number	Sample Description / Site ID:	Date Sampled	Time Sampled	Samplers Initials	Test(s) Requested:	Bottle Quantity	See Codes Below				Comments / Field Data:
							Matrix	Sample Type	Bottle Type	Preservative	
	SB-12 (2')	1/26/18	0922	RAB	PA-05 Leaded and unleaded gasoline	4	Solid	G	G	O	

Relinquished By: <u>Rachel Burkart</u>	Date: <u>1/20/18</u>	Temp °C: <u>6.8</u> on ice Acceptable: <u>Y/N</u>	Sample Conditions Submitted with COC? <u>(Y) N</u> Number of containers match number on COC? <u>(Y) N</u> All containers in tact? <u>(Y) N</u> Tests within holding times <u>(Y) N</u> 40 mL VOA vials free of headspace? <u>Y / N</u>	Matrix Key NPW = Non-Potable Water Solid = Raw Sludge, Dewatered sludge, soil, etc. (reported as mg/kg) PW = Potable Water (not for SDWA compliance) SDWA = Safe Drinking Water Act Potable Sample	Bottle Type Key P = Plastic G = Glass O = Other	Reporting Options [] SDWA Reporting PWSID: _____ [] Fax [] Email [] Other [] Return a copy of this form with Report
Received By: <u>Kelly Bailey 4</u>	Date: <u>1/26/18</u> Time: <u>13:37</u>					
Relinquished By: <u>Kelly Bailey 4</u>	Date: <u>1/26/18</u> Time: <u>13:38</u>	Temp °C: <u>6.8</u> Acceptable: <u>(Y) N</u>	Sample Type Key G = Grab 8HC = 8 Hr. Composite 24HC = 24 Hr. Composite	SDWA Sample Types D=Distribution E=Entry Point R=Raw C=Check S=Special M=Maximum Residence	Preservative Key N = Sodium Thiosulfate A = Ascorbic Acid H = HNO ₃ C = HCl S = H ₂ SO ₄ OH = NaOH O = Other NA = None Required	
Received in Lab By: <u>JE</u>	Date: <u>1-26-18</u> Time: <u>1338</u>	Temp °C: _____ Acceptable: <u>(Y) N</u>				

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