

**SITE CHARACTERIZATION REPORT
FORMER ROSEMERGY'S
STORE/GARAGE
USTIF CLAIM NUMBER: 2011-0082(S)
1623 ROUTE 590,
LACKAWAXEN TWP., PIKE CO.,
PENNSYLVANIA**

FOR

**LOCHGEN, LP
731 WELCOME LAKE ROAD
HAWLEY, PENNSYLVANIA 18428**

August 7, 2014

Project Number: 11-17788-01

BY

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EXECUTIVE SUMMARY
SITE CHARACTERIZATION REPORT
FORMER ROSEMERGY'S STORE/GARAGE
USTIF CLAIM NO. 2011-0082(S)
1623 STATE ROUTE 590
LACKAWAXEN TWP., PIKE CO., PENNSYLVANIA

The following is an Executive Summary of the Site Characterization, as presented in the body of this report that was conducted by Converse Consultants (Converse). Please refer to the appropriate sections of the report for a complete discussion of these issues. In the event of a conflict between this Executive Summary and the report, or an omission in the Executive Summary, the report shall prevail.

Converse Consultants (Converse), on behalf of Lochgen, LP (Lochgen), submits this Site Characterization Report (SCR) to document site characterization activities that were conducted at the former Rosemergy's Store/Garage located at 1623 State Route 590 in Hawley (Lackawaxen Twp.), Pike County, Pennsylvania (Property). The Property is currently operated as a retail motor fuel distribution and convenience store. The site characterization is being conducted to further assess a release of petroleum product (unleaded gasoline) that was identified in July 2011 from a regulated underground storage tank (UST) system at the Property and comply with the requirements of *25 Pennsylvania Code Chapter 245* (§245).

Site characterization included the following primary tasks:

1. Completion of a Site-Specific Health and Safety Plan.
2. Completion of a Receptor Survey for the area surrounding the Property.
3. Completion of a private utility markout and other measures to assess utility locations and depths beneath the property.
4. Negotiation of site access to off-property locations
5. Collection of water samples from potable supply wells located on adjacent properties.
6. Assessment of the soil vapor to indoor air pathway via soil vapor sampling and indoor air sampling.
7. Completion of a Soil Sample Collection Program using a Geoprobe Direct-Push soil sampling system. Twenty (20) soil borings (soil borings SB-8 through SB-27) were completed at the Property to assess the levels of residual petroleum constituents in soil.
8. Installation and development of sixteen (16) groundwater monitoring wells (monitoring well MW-1 through MW-16) at the site to assess the extent of the impacted groundwater plume. The groundwater monitoring wells were installed

to depths of approximately 15 feet below grade (fbg) and were screened across the water table that was encountered during drilling.

9. Completion of multiple rounds of groundwater sample collection from the monitoring wells. At least two rounds of groundwater sample collection were collected from each monitoring well.
10. Completion of two (2) rounds of sample collection from the nearest on-lot supply wells located on adjacent properties.
11. Review of previously completed studies at the site.
12. Aquifer testing and development of an updated site conceptual model.
13. Compilation and submission of this Site Characterization Report (SCR).

SELECTED STANDARDS

SOIL - Nonresidential medium specific (NRMSC) Statewide Health Standard (SHS)
GROUNDWATER - Residential MSC SHS

SETTING

The site is located approximately 1,200 feet south of Little Teedyuskung Lake. The lake drains into West Falls Creek which passes approximately 1,100 feet northeast of the site. West Falls Creek flows southeast to the Lackawaxen River. The site is located approximately 2,200 feet northeast and northwest, respectively, of two (2) small creeks that drain south into the Lackawaxen River. The Lackawaxen River is located approximately 7,500 feet south of the site and flows from west to east (towards the Delaware River). No surface water body is present within the boundaries of the Property. Use of properties in the immediate area of the Site consists primarily of residential use.

RECEPTORS - Converse performed a door-to-door survey and site reconnaissance of the Property and vicinity to identify potential receptors. With the exception of the residential supply well on the adjacent property to the south and potential receptors based on site use (employees, visitors, and construction workers), no potential receptor was identified during the site reconnaissance. The nearest surface water body is located approximately 1200 feet from the Property. The site building and nearest off-Property residence do not have basements.

SOIL VAPOR - No compound exceeded the residential MSC_{SG} (RMSC_{SG}) or nonresidential MSC_{SG} (NRMSC_{SG}) in the soil gas samples (2 rounds) collected from the two (2) soil vapor points VP-1 and VP-2 that were installed between the release area and the convenience store building.

INDOOR AIR – An assessment of indoor air was completed at the nearest residential

structure to the southeast. Samples were collected inside the structure and outside the structure (ambient air). Gasoline constituents were detected in the indoor air sample but were not present at levels that exceed the RMSC SHSs for indoor air that are published by PADEP. A second round of indoor air sample collection is planned for winter 2015 to provide data during the winter season.

GROUNDWATER

Multiple rounds of groundwater sample collection and analysis have been conducted to characterize groundwater during the course of the site characterization phase. As discussed previously, additional groundwater monitoring wells were added in phases to address data gaps. Groundwater sample collection events were conducted on the following dates:

May 8, 2012
June 7, 2012
November 8, 2013
December 11, 2013
February 4, 2014 (MW-10 through MW-12 only)
March 7, 2014
April 29, 2014 (MW-13 through MW-16 only)
June 12, 2014

The laboratory results indicate that petroleum constituents in the groundwater are present beneath the Property and the adjacent Woodloch property at levels that exceed the RMSC SHSs. UST closure data and the analytical data indicate that the petroleum product released at the site was unleaded gasoline. The highest levels of gasoline constituents have been detected in monitoring wells west of the former leaking UST system consistent with the local direction of groundwater flow indicated by water level data.

As previously discussed, the principal direction of contaminant transport beneath the site is to the west. Groundwater level data and the observed distribution of contaminants also indicate a component of flow to the southeast. The impacted groundwater plume has not migrated to the west or southeast beyond the current monitoring well network at levels that exceed the RMSC SHSs.

Insufficient rounds of quarterly groundwater sample collection have been completed to provide a meaningful analysis of groundwater trends. However, groundwater sample collection events for the central area of the impacted groundwater plume date back to May of 2012. Historical data for the core of plume indicate stable contaminant concentrations in monitoring wells MWV-1 and MWV-4, a general decline in concentrations in monitoring wells MWV-2 and MWV-7, and a post-construction increase in concentrations in monitoring wells MWV-3 and MWV-5.

SOIL - In general, the highest levels of petroleum constituents in each soil boring were detected at the soil/groundwater interface. In general, the highest levels of petroleum constituents in soil were detected in borings west (downgradient) of the former UST excavation. No residual source area is indicated to be present in the unsaturated zone.

SITE CONCEPTUAL MODEL – Current data for the Site indicate:

1. Field data indicate that unconsolidated deposits are laterally extensive and serve as an aquifer beneath the Site.
2. The primary surface water discharge boundary in the area of the Site is the Lackawaxen River and its tributaries.
3. No distinct confining unit was evident in the subsurface that was evaluated by this study.
4. The overburden consists of a poorly stratified mixture of silty sands and silts, with varying amounts of gravel, and occasional clayey horizons. Bedrock was not encountered during site characterization activities that investigated to a depth of approximately 21 feet below grade.
5. The water table is indicated to be shallow and located just below the depth of utilities at the Site. Although data indicates that the distribution of contaminants is consistent with groundwater flow predicted from contour maps, utilities could potentially serve as preferential pathways during periods of high water levels.
6. Groundwater mounding within the unconsolidated overburden occurs at the eastern end of the former UST area.
7. Although groundwater is shallow, experience with open holes and excavations indicate that very little water is available in the shallow overburden. Measurements of aquifer properties indicate very slow groundwater transport velocities.

Impacted groundwater extends to the west and southeast of the former UST system at levels that exceed the RMSC SHSs. Although data is insufficient to assess constituent concentration trends, no potential source of additional petroleum hydrocarbons has been identified in the area of the impacted groundwater plume. Based on the age of the release, the lack of an active source, and the slow predicted transport velocities predicted for groundwater, the plume would be expected to be stable or shrinking. Recent increases in contaminant concentrations in monitoring wells MW-3 and MW-5 are expected to be temporary increases due to disturbance of the site during construction of the new store.

A qualitative analysis of fate and transport indicates limited mobility of constituents beyond the current contaminant distribution. As the current monitoring well array is sufficient to detect expansion of the plume before the plume reaches downgradient

receptors, it is our opinion that quantitative analysis of fate and transport is not required at this point in time.

PLANNED ACTIVITIES

- Screening of remedial alternatives and submission of a Remedial Action Plan.
- Quarterly Groundwater Monitoring and Reporting.
- A second indoor air sampling event during the winter of 2015.
- Construction activities have caused an increase in gasoline constituents in monitoring wells MW-3 and MW-5 that are located near off-property monitoring wells and the off-property residential supply wells. A groundwater extraction event will be proposed to USTIF to address the increase in contaminant concentrations and preclude additional off-property movement of the petroleum constituents.
- Quantitative fate and transport analysis, if required.

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SITE CHARACTERIZATION REPORT
FORMER ROSEMERGY'S STORE
FACILITY ID #52-01926
1623 ROUTE 590
LACKAWAXEN TWP., PIKE CO., PENNSYLVANIA

1.0 INTRODUCTION

Converse Consultants (Converse), on behalf of Lochgen, LP. (Lochgen), submits this Site Characterization Report (SCR) to document site characterization activities that were conducted at the former Rosemergy's convenient store located at 1623 State Route 590 in Hawley (Lackawaxen Twp.), Pike County, Pennsylvania (Property). The site characterization is being conducted to further assess a release of petroleum product (unleaded gasoline) that was identified in July 2011 from a regulated underground storage tank (UST) system at the Property. Appendix A: Figure 1 presents the location of the Property relative to area roads and features.

The scope of work for site characterization activities completed by Converse and others was prepared in coordination with USTIF. Ultimately, the site characterization activities were conducted to: 1) assess the lateral extent of petroleum constituents in soil and groundwater that resulted from the release of product from a former underground storage tank (UST) system at the Property; 2) comply with the requirements of 25 *Pennsylvania Code Chapter 245* (§245). *Subchapter D: Corrective Action Process for Owners and Operators of Storage Tanks and Storage Tank Facilities and Other Responsible Parties*; and 3) collect data to facilitate attainment of one (1) or more of the remediation standards that are promulgated in and to comply with the requirements of 25 *Pennsylvania Code Chapter 250* (§250): *Administration of the Land Recycling Program*.

The site characterization included the following primary tasks:

1. Completion of a Site-Specific Health and Safety Plan.
2. Completion of a Receptor Survey for the area surrounding the Property.
3. Completion of a private utility markout and other measures to assess utility locations and depths beneath the property.
4. Negotiation of site access to off-property locations

5. Collection of water samples from potable supply wells located on adjacent properties.
6. Assessment of the soil vapor to indoor air pathway via soil vapor sampling and indoor air sampling.
7. Completion of a Soil Sample Collection Program using a Geoprobe Direct-Push soil sampling system. Twenty (20) soil borings (soil borings SB-8 through SB-27) were completed at the Property to assess the levels of residual petroleum constituents in soil.
8. Installation and development of sixteen (16) groundwater monitoring wells (monitoring well MW-1 through MW-16) at the site to assess the extent of the impacted groundwater plume. The groundwater monitoring wells were installed to depths of approximately 15 feet below grade (fbg) and were screened across the water table that was encountered during drilling.
9. Completion of multiple rounds of groundwater sample collection from the monitoring wells. At least two rounds of groundwater sample collection were collected from each monitoring well.
10. Completion of two (2) rounds of sample collection from the nearest on-lot supply wells located on adjacent properties.
11. Review of previously completed studies at the site.
12. Aquifer testing and development of an updated site conceptual model.
13. Compilation and submission of this Site Characterization Report (SCR).

2.0 DOCUMENTATION AND ADMINISTRATIVE SUMMARY

2.1 PRIMARY CONTACTS

Responsible Party

Lochgen LP
731 Welcome Lake Road
Hawley, Pennsylvania 18428
(570) 685-8061
Primary Contact: Mr. George Korb

USTIF/ICF Contact

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Middletown, Pennsylvania 17057
(570) 586-2617
Primary Contact: Ms. Linda Melvin

Consultant

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2738 West College Avenue
State College, Pennsylvania 16801
(814) 234-3223
Primary Contact: David W. Swetland, P.G.

Pennsylvania Department of Environmental Protection (PADEP) Staff Contact

PADEP – Northeast Region
2 Public Square
Wilkes Barre, Pennsylvania 15222
(570) 830-3028
Primary Contact: Ms. Rebecca Albert

2.2 SITE USE DESIGNATION

For the purpose of this submission, a "Property" is defined as a parcel of land that is defined by metes and bounds that are set forth in the deed for that land and is the originating property of the constituents of concern (COC) that are assessed by the Site Characterization and addressed during Remedial Action. As presented in §250.1, a Site is defined as "the extent of contamination originating within the property boundaries and all areas in close proximity to the contamination necessary for the implementation of remediation activities to be conducted under the act". More

than one (1) Site can be located within the boundaries of a property and a Site can extend beyond the boundaries of a property.

One (1) Site was identified during the Site Characterization. The Site extends beyond the boundary of the Property and includes soil and groundwater that are circumscribed by the monitoring wells and UST area at the Site.

Appendix A: Figure 2 presents cultural features that are located on and the general area of the Site. The Property has historically been utilized to service, store, and fuel vehicles. An active UST system that includes a fuel island with canopy and USTs that store unleaded gasoline is currently located at the Property. The current use of the Property meets the definition of a Nonresidential Property as promulgated in *Act 2 of 1995: Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2), Section 103*. The use of properties that are adjacent to the Site consists primarily of commercial, residential, and undeveloped land. The current use of surrounding properties meet the definition of nonresidential and residential property as promulgated in *Act 2, Section 103*. The probable future use of the Property and adjacent properties may be for either Residential or Nonresidential purposes.

Constituent concentrations in the soil were evaluated with respect to the Nonresidential Medium Specific Concentration (NRMSC) Statewide Health Standards (SHSs) that are promulgated in §250: Subchapter C. Constituent concentrations in groundwater were evaluated with respect to the Residential Medium Specific Concentration (RMSC) Statewide Health Standards (SHSs) that are promulgated in §250: Subchapter C.

§250.302(a) and 407(a) stipulate that the point of compliance (POC) "is the property boundary that existed at the time the contamination was discovered". Data indicate that compounds of concern (COCs) extend beyond the downgradient POC at concentrations greater than the RMSC SHS.

2.3 SELECTED STANDARD

§245.310(a)(26) requires the identification of the remediation standard that has or will be attained. Act 2 requires that the attainment of one (1) or a combination of three (3) cleanup standards be demonstrated by scientifically recognized principles, standards, and procedures. The cleanup standards include the Background Standard (BGS), the Statewide Health Standard (SHS), and the Site Specific Standard (SSS). §250 promulgates cleanup criteria for three (3) specific media: soil not in the zone of groundwater saturation (unsaturated soil); soil in the zone of groundwater saturation (saturated soil); and groundwater. Act 2 also requires that the Remediator notify PADEP which standard(s) will be used to demonstrate attainment.

Attainment of the following remediation standards at the Site is currently anticipated:
SOIL - Nonresidential medium specific (NRMSC) Statewide Health Standard (SHS)
GROUNDWATER - Residential MSC SHS

2.4 DEED ACKNOWLEDGEMENT AND UNIFORM ENVIRONMENTAL COVENANT ACT

Act 2: Section 303(g) requires that "persons attaining and demonstrating compliance with the Statewide Health Standard considering residential exposure factors for a regulated substance shall not be subject to the deed acknowledgment requirements of" the sections of Pennsylvania Law (P.L.) specified in Act 2: Section 303(g), but "the deed acknowledgment requirements shall apply where nonresidential exposure factors were used to comply with the Statewide health standard". Act 2: Section 304(m) requires that "persons attaining and demonstrating compliance with the site-specific standard for a regulated substance shall be subject to the deed acknowledgment requirements of" the sections of Pennsylvania Law (P.L.) that are specified in Act 2: Section 304(m). A deed acknowledgment is not currently anticipated for the Property that is the subject of this Report.

The Pennsylvania Uniform Environmental Covenants Act (UECA: Act 68 of 2007) requires a covenant on the real property if an engineering control or institutional control is necessary to demonstrate attainment of an Act 2 standard. Engineering controls can

include, but are not limited to, slurry walls, liner systems, caps, leachate collection systems, and groundwater recovery trenches. Institutional controls are measures taken to limit or prohibit certain activities that may interfere with the integrity of a remedial action or result in exposure to regulated substances at a property. The covenant can act as the deed acknowledgement. At this point in time the use of covenants is not anticipated for the Site.

2.5 RELEASE REPORTING

2.5.1 Submissions to PADEP

§245.305(a) requires that "the owner or operator of storage tanks and storage tank facilities shall notify the appropriate regional office of the Department as soon as practicable, but not later than 24 hours, after the confirmation of a reportable release" and §245.305(c) requires that "the notice required by subsection (a) shall be by telephone". A release of product was identified at the Property in July 2011. Based on documentation provided by Bluestone Environmental, PADEP was notified of the release from the UST system.

§245.305(d) requires that "within 15 days of the notice required by subsection (a), the owner or operator shall provide written notification to the Department and to each municipality in which the reportable release occurred, and each municipality where the release has impacted environmental media or water supplies, buildings or sewer or other utility lines". No information on municipal notification was provided to Converse. Based on documentation provided by Bluestone Environmental, PADEP was notified of the release from the UST system. Converse will notify the municipality of the release.

§245.305(e) requires that "the owner or operator shall provide written notification to the Department and 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 (d). Written notification under this subsection shall be made within 15 days of the discovery of the new impact". The impacts assessed in this report are considered to be the result of the reported

release. No new impact was identified during the characterization activities discussed in this report.

2.5.2 Submissions to the Municipality

As presented in Section 2.5.1, municipal notification requirements are specified in §245.305(d) and (e). Lackawaxen Township, Pike County, Pennsylvania is the municipality in which the release occurred and where impacted media have been identified. Converse will notify the municipality of the release.

2.6 COMMUNITY INVOLVEMENT

§245 does not require the development or implementation of a community involvement plan.

2.7 FEDERAL, STATE, AND LOCAL PERMITS OR APPROVALS

To the best of our knowledge, PADEP approval of this Site Characterization Report is the only Federal, State, or Local permit or approval that is necessary at this point in time.

2.8 ADDITIONAL NOTIFICATION AND COMMUNICATIONS

No additional notification to a public or private entity was made.

2.9 OFF-PROPERTY ACCESS AGREEMENTS

§250.410(c) requires that “when a person proposes a remedy that relies on access to properties owned by third parties, for remediation or monitoring, documentation of cooperation or agreement shall be submitted as part of the cleanup plan”.

Documentation of off-Property access is included in Appendix G.

2.10 AQUIFER USE DETERMINATION

The aquifer beneath and in the area of the Property is considered to be used and currently planned for use (§250.403(b)) and to contain less than 2,500 milligrams per liter (mg/l) of total dissolved solids.

2.11 AFFECTED OR DIMINISHED WATER SUPPLY

Act 32 of 1989: Storage Tank and Spill Prevention Act (Act 32) and §245.307 require that any responsible party who affects or diminishes a water supply as a result of a release must restore or replace the affected or diminished water supply at no cost to the owner of the supply.

No affected or diminished water supply was identified during the course of the investigation that is documented in this Report.

2.12 PREVIOUSLY SUBMITTED REPORTS AND PADEP RESPONSES

2.12.1 General

The following documents were provided to Converse, were previously submitted to PADEP, and are incorporated herein by reference. Copies of PADEP documents that were submitted in response are also listed below, if available.

2.12.2 Previous Reports, Approval Requests, and Notifications

1. *Work Plan, Additional Supplemental Site Characterization, Former Rosemergy's Convenient Store, 1623 Route 590, Hawley, Pennsylvania*, dated September, 25, 2013, prepared by Converse Consultants.
2. *SCR Submittal Date Extension Request, USTIF Claim Number: 2011-0082(S), Rosemergy's Convenience Store, Hawley, Pennsylvania*, dated March 13, 2014, prepared by Converse Consultants.
3. *SCR Submittal Date Extension Request (update), USTIF Claim Number: 2011-0082(S), Rosemergy's Convenience Store, Hawley, Pennsylvania*, dated March 13, 2014, prepared by Converse Consultants.

2.12.3 PADEP Correspondence

No major correspondence.

2.13 FIELD ACTIVITY CHRONOLOGY

The Site Characterization field activities were completed during the period of March 2012 through June 2014. The events and activities of this Site Characterization are summarized in the following chronology of events:

<u>Date</u>	<u>Field Activity</u>
March 2012 :	Soil borings and installation of monitoring wells MW-1 through MW-6.
May 2012:	Complete round of groundwater samples.
June 2012:	Complete round of groundwater samples.
October 2013:	Installation of groundwater monitoring wells MW-7 through MW-9, MW-1R, and MW-12.
November 2013:	Groundwater sample collection event.
December 2013:	Groundwater sample collection event including nearest residential supply wells.
January 2014:	Installation of groundwater monitoring wells MW-10 and MW-11.
February 2014:	Groundwater sample collection event from new wells and nearest residential supply wells. Collection of soil vapor samples.
March 2014:	Complete round of groundwater samples. Collection of soil vapor samples.
April 2014:	Installation of groundwater monitoring wells MW-13 through MW-16.
May 2014:	Groundwater sample collection event from newly installed monitoring wells.
June 2014:	Groundwater sample collection event from all monitoring wells. Collection of one round of indoor air assessment samples.

3.0 PROPERTY DESCRIPTION

3.1 SITE LOCATION

The Former Rosemergy's Store/Garage consists of one parcel of land that occupies approximately 1.8 acres of land at 1623 Route 590, Lackawaxen Twp., Pike County, Pennsylvania. The Property is located along the north side of Hamlin Highway (PA 590) approximately 600 feet east of the intersection of Hamlin Highway and Woodloch Drive (N41° 30' 05.49", W75° 05' 49.05"). Appendix A: Figure 1 presents the location of the Property relative to area roads and features.

3.2 PROPERTY SETTING

Although the site is relatively flat, hills are located northeast and west of the site. The Narrowsburg USGS topographic quadrangle map indicates that the site is located at an elevation of approximately 1290 feet above mean sea level. With respect to topography, the site is located near the saddle point that separates surface flow to the north towards Little Teedyuskung Lake from surface flow to the southeast and east towards creeks that drain into the Lackawaxen River.

The site is located approximately 1,200 feet south of Little Teedyuskung Lake. The lake drains into West Falls Creek which passes approximately 1,100 feet northeast of the site. West Falls Creek flows southeast to the Lackawaxen River. The site is located approximately 2,200 feet northeast and northwest, respectively, of two (2) small creeks that drain south into the Lackawaxen River. The Lackawaxen River is located approximately 7,500 feet south of the site and flows from west to east (towards the Delaware River). No surface water body is present within the boundaries of the Property.

Use of properties in the immediate area of the Site consists primarily of residential use.

3.3 PROPERTY DESCRIPTION AND OPERATIONS

Appendix A: Figure 2 presents cultural features and the boundaries of the Property. The Property is currently owned by Lochgen, LP. The Property is currently operated as a retail motor fuel distribution and convenience store. The active UST systems that

are used to store and dispense unleaded gasoline at the Property are shown on Figure 2.

The Property is generally flat and is covered with pavement (concrete or asphalt). The area of the former release is covered by pavement. One slab on grade building is located at the Property. The Property and surrounding areas are served by public water and public sewers, however not all residences are hooked up to the public systems.

4.0 SUMMARY OF PREVIOUS INVESTIGATIONS AND INTERIM REMEDIAL ACTIVITIES

4.1 GENERAL

The site began as an automotive repair station with retail gasoline sales around 1965. The site was operated as both an automotive repair station and retail gasoline station until April 2000, by Mr. Robert Rosemergy, Jr. At that time, the Rosemergy Estate took ownership of the property, until February 2002, when Ms. Hoadley and her brother, Charles Rosemergy became heirs of the Estate. The facility was out-of-service from April 2000 until February 2002. In February 2002, retail gasoline sales resumed at the site. A convenience store was added in October 2002. The retail gasoline sales continued until March 2010.

Prior to UST closure activities in 2011, there were two (2) 2,000-gallon single wall STIP-3 underground storage tanks (USTs) used to store gasoline. There was also a 1,000-gallon single wall STIP-3 UST used to store on-road diesel fuel. The three (3) tanks were installed in April 1988 and upgraded to Pennsylvania Department of Environmental Protection (PADEP) Storage Tank Requirements in December 1998 by Fowler Oil Company. The product transfer lines were single wall steel construction, with the European style suction pumps located in the dispensing units. During the upgrade in 1998, a TLS-300 Veeder-Root Monitoring System was installed, and connected to each of the three (3) tanks, with each tank having its own monitoring probe. Also at that time, overfill protection and spill buckets were installed at each tank. The overfill protection was in the form of an audible alarm located on the front of the building.

4.2 PHASE II ESA

The release of petroleum product to the environment was first identified during a limited Phase II Environmental Assessment (Phase II) of the property on June 28th, 2011. The Phase II was being conducted as part of a property transaction by Bluestone Environmental for Woodloch Real Estate (Woodloch). Locations, boring logs and analytical data from the Phase II ESA are included as Exhibit C of the *2012 Bluestone Work Plan* (a copy of which is provided with this report). The contents of this Section of the report are from the referenced Work Plan.

On June 28, 2011, Bluestone mobilized to the site with a Geoprobe unit to conduct a limited Phase II assessment of the property. Three (3) soil borings were placed around the tank system and pump island. The first boring was placed approximately 6-feet off the southeastern side of the pump island. The first sample sleeve showed a potential release of petroleum fuel at 4-feet below grade. Screening of the soil sample sleeve with a Photo Ionization Detector (PID) indicated that the highest PID reading (approximately 1,800 units) was observed at the 4-foot interval. A sample for laboratory analysis was collected at 4-feet below grade. The last several inches of the 0 to 4 foot sample encountered shallow ground water. A solid 4-foot rod was dropped down to 8-feet below grade and a 1" piece of slotted screen was dropped down the boring and left in place for 30 minutes. After 30 minutes, a grab sample of the groundwater was removed with a ½" bailer. The water had a very strong petroleum odor. The laboratory results confirmed that the groundwater was impacted by petroleum constituents.

A second boring was placed approximately 75 feet east of the pump island. The second boring was completed at a depth of 8-feet below grade. Continuous screening of the soil with the PID indicated the highest PID response (35 units) at approximately 4-feet below. A soil sample for laboratory analysis was collected at 4-feet below grade.

The third boring was placed approximately 20-feet southwest of the pump island. The third boring was completed at a depth of 12-feet below grade. Continuous screening of the soil indicated the highest PID response was at approximately 8-feet below grade. A soil sample for laboratory analysis was collected from the third boring at 8-feet below grade.

The samples were placed on ice and sent to Fairway Laboratories, Inc. (Fairway) for analysis. Bluestone received the analytical data from Fairway on July 5, 2011. The soil and groundwater analytical data confirmed a release of petroleum to the soils and groundwater at the property.

4.3 UST SYSTEMS CLOSURE

On September 12, 2011, the three underground storage tanks (USTS) were removed from the Former Rosemergy's Store/Garage. The tank systems were closed by

excavation and removal of the USTs and components. Site assessment results during UST closure identified "obvious, extensive contamination." A copy of the submitted UST closure report can be found in Exhibit B of *2012 Bluestone Work Plan*.

As expected, Tank 001 was a 2,000 gallon capacity containing unleaded gasoline; Tank 002 was a 2,000 gallon capacity containing unleaded gasoline, and Tank 003 was a 1000 gallon containing diesel fuel. An amended "Storage Tanks Registration/Permitting Application Form" was submitted by Bluestone to PADEP on October 14, 2011.

Prior to removal, all useable liquids were removed by FCC Environmental of Wilmington, Delaware. A total of 1247 gallons of gasoline and diesel fuel was disposed of off-site. All liquids and sludges were removed during the on-site cleaning process. The bottoms were drummed, secured, and stored on site. The waste material was disposed of by Cycle-Chem, Inc. Lewisberry, PA. The USTS associated with the removal were recycled at Mike's Scrap yard, Scranton, PA. Disposal receipts are included in the closure report.

Based on the tank handling information, all three tanks were inspected. All three USTS were identified as in good to excellent condition. The associated underground piping was removed and was also in good condition.

Site assessment information generated during the removal and closure process indicated evidence of soil contamination throughout the excavation area. The heaviest contamination and highest field PID readings were identified directly below the pump island. The island contained three dispensers. The heaviest soil contamination appeared to be under the center pump dispenser, Dispenser #2. Dispenser #2 was connected to unleaded gasoline tank 002. The likely source of the release was the dispenser or piping connections under the dispenser. The leak appeared to be a slow release (chronic problem) that occurred over a multiple year period. There were no containment sumps under the dispensing units.

Approximately 100± tons of soil was removed from under the pump islands. The soil was stockpiled on polyethylene sheeting for off-site disposal.

Groundwater was encountered at a depth of 9 to 10 feet below ground surface in the UST excavation. The water that accumulated within the tank excavation pit had a visible petroleum sheen.

4.4 ADDITIONAL HISTORICAL DOCUMENTS

4.4.1 Previous Phase II ESA

A Phase II assessment was conducted in April 1996 by F.X. Browne for Woodloch as part of a potential property transaction. As a follow up to the F.X. Browne report, Hydrotech Inc. was hired by Mr. Ralph Westgate of Fowler Oil Company to complete an additional investigation around the results found in the F. X. Browne report. At this time, there is limited information on the work completed by Hydrotech, Inc. Copies of the site diagram, along with groundwater sample results are included in Exhibit A - Attachment F of the *2012 Bluestone Work Plan*. Also, additional soil samples were collected by Hydrotech, Inc. on July 5, 1996. A copy of the F. X. Browne report, Hydrotech Site Maps and the sample results from the samples collected on July 5, 1996 can be found in Exhibit A - Attachment F of the *2012 Bluestone Work Plan*.

4.4.2 Utility Line Excavation

In December of 2002, Aqua PA (local water company) was installing a domestic water line on the southern side of PA Route 590. During excavation activities for the water line, suspected contaminated soil was encountered and excavation activities were stopped. PADEP was notified and Mr. Tom Coar responded to the site. A copy of Mr. Coar's report can be found in Exhibit A - Attachment D of the *2012 Bluestone Work Plan*. Austin James Associates, Inc. responded to the site on March 11, 2003 to collect soil samples in an effort to investigate the suspected release encountered by Aqua PA. A copy of the sample results can be found in Exhibit A - Attachment D of the *2012 Bluestone Work*. At that time, there was no further work completed at the site, and the sample results did not confirm a release from the property.

4.5 INTERIM REMEDIAL MEASURES

As previously documented, soil removal was completed as part of the UST closures activities. No additional interim remedial measures have been completed to date.

5.0 GENERAL PROPERTY GEOLOGY

The Facility is located in the Glaciated Low Plateau Section of the Appalachian Plateaus Physiographic Province of Pennsylvania. The Pennsylvania Department of Environmental Resources, Bureau of Topographic and Geologic Survey, *Geologic Map of Pennsylvania, 1981* indicates that the bedrock that underlies the Facility consists of Devonian-age, Long Run and Walcksville Members (Dclw) of the Catskill Formation. The Long Run and Walcksville Members (Dclw) of the Catskill Formation (undivided) consist of cyclic sequences of gray to grayish-red to greenish-gray sandstone, siltstone, and claystone in fining upward cycles. No outcrop was observed in the immediate vicinity of the Site. Consistent with regional structure, bedrock is expected to strike roughly northeast-southwest with gentle dips of bedding to the southeast and northwest.

The area of the Site was covered by the Wisconsin Glaciation. Approximately 50 percent of the ground surface is estimated to be covered by gray to grayish red sandy till. The layer of till is reported to vary from thin to thick. The till is reported to be draped over bedrock and is not expected to have been reworked into glacial landforms.

Soil borings were completed during site characterization activities. Borings indicate that unconsolidated deposits that consist mainly of a mix of silty sands and silts with varying amounts of gravel (some of which could be described as till) are located beneath the site to the maximum depth of the soil borings that was 21 feet below grade. Appendix D presents boring logs that detail the material that was penetrated during the soil borings. Bedrock was not encountered in the soil borings.

6.0 GENERAL PROPERTY HYDROGEOLOGY

6.1 GENERAL

Field and published data indicate that aquifers are present in the unconsolidated deposits (water table aquifer) and in the bedrock beneath the Property. The site characterization activities indicate that the unconsolidated overburden beneath the Property has been impacted by the release of gasoline. Appendix A: Figure 2 presents the locations of the monitoring wells.

With respect to topography, the site is located near the saddle point that separates surface flow to the north towards Little Teedyuskung Lake from surface flow to the southeast and east towards creeks that drain into the Lackawaxen River.

The depth to groundwater in monitoring wells that are completed within the unconsolidated overburden ranges from approximately 0.5 feet to 13 feet below grade.

6.2 RELATIVE ELEVATION SURVEY

Kiley Associates, LLC of Lakeville, Pennsylvania, a Pennsylvania licensed surveyor, completed the survey to provide the data necessary to assess the direction of groundwater flow in the water table aquifer at and in the area of the Property. The survey provided elevations of the top of casing and a reliable horizontal location of each well. The location and top of casing (TOC) elevation for each well was measured relative to the 1983 North American Datum (NAD83) using the State Plane Coordinate System. The TOC elevations and the measured groundwater levels in each well were then used to calculate groundwater elevations at each data point. Appendix B: Table 1 presents a tabulated summary of the elevation survey data, depth to water data, and calculated groundwater relative elevation data.

6.3 DEPTHS TO WATER

6.3.1 General

In the absence of nearby pumping wells, observed changes in the water level elevation is generally the result of seasonal fluctuations in groundwater levels as affected, primarily, by precipitation and infiltration. The thickness of the water table aquifer unit beneath the Property is at least 10 feet.

Data indicate that the water table may be at elevations equal to or higher than the maximum depth below grade of cultural features such as basements and utility trenches. These data indicate that cultural features are a potential, preferential pathway for groundwater movement. In particular, water levels on the south side of Route 590 are at elevations that could be impact or be impacted by utility trenches.

Current overburden (water table) groundwater elevation data suggest an area of groundwater mounding adjacent to monitoring well MW-5 that is located within the former UST excavation. This is a common feature of backfilled excavations. The majority of the Site is currently covered with relatively impermeable asphalt and/or concrete.

Groundwater levels were measured in the overburden monitoring wells at the Site at depths that ranged from approximately 0.5 feet to 13 feet below grade (location dependent) during the periods of May 2012 to June 2014. A maximum change of approximately 5.5 feet in the depth to the water table at individual monitoring well locations was measured during these periods.

6.4 DIRECTION OF GROUNDWATER FLOW

6.4.1 Lateral Groundwater Flow

Groundwater elevation data indicate that flow within unconsolidated overburden across the Site is anomalously to the west (away from the major streams and rivers). Appendix A: Figure 5A through 5D present Groundwater Elevation Contour Maps for the unconsolidated overburden that depict the calculated groundwater relative elevations at the monitoring wells for the four (4) most recent full sample collection events. Appendix B: Table 1 presents a tabulated summary of the relative elevation survey data, depth to water data, and calculated groundwater relative elevation data.

6.4.2 Vertical Groundwater Flow

The petroleum impact was encountered at the top of the groundwater table in the unconsolidated overburden aquifer. Soil screening data indicates that levels of contamination decrease beneath the groundwater smear zone. As vertical

movement of the impacted groundwater is not indicated for the Site, no quantitative evaluation of vertical groundwater movement was conducted.

6.5 HYDRAULIC GRADIENT

The hydraulic gradient was calculated using data presented on the groundwater contour maps in Appendix A and the groundwater elevation data presented in Appendix B. The distance between monitoring wells MW-5 and MW-7 was measured on the contour map and the calculated groundwater elevation (based on field measured groundwater levels) at each well was used to calculate the hydraulic gradient.

The table below presents measured distances and calculated gradients for the three (3) dates when Site groundwater levels were recorded by Converse. Hydraulic gradient (I) = Hydraulic Head Difference (ΔH)/Distance.

HYDRAULIC GRADIENTS				
Date	MW-5 Groundwater Elev. (ft)	MW-7 Groundwater Elev. (ft)	Approximate Distance (ft)	Hydraulic Gradient (I)
11/8/13	1291.54	1286.10	101	0.054
12/11/13	1294.94	1285.99	101	0.089
6/12/14	1294.71	1290.85	101	0.038
Average				0.060

6.6 BAIL/SLUG TESTS

On February 4, 2014 rising head slug/bail tests were performed by Converse personnel on newly installed monitoring wells MW-1R, and MW-8 through MW-12. Monitoring well MW-7 does not contain a sufficient groundwater column to perform a rising head slug/bail test. All slug/bail tests were performed using a 1-inch diameter Whale® (or similar) submersible pump. Water levels within the wells were continuously monitored during the pumping tests utilizing Schlumberger Water Services Diver® pressure transducers with self-contained data loggers. A hand water level probe was used to take manual water level readings and a portable granular activated carbon unit was used to treat water pumped from contaminated wells.

The rising head slug/bail test consisted of pumping the well dry (where applicable) and recording (logging) the aquifer's recovery back to near static groundwater levels. A transducer was set to record a data point every one (1) second and then lowered into the bottom of the well. The pump was introduced and the groundwater was pumped from the well until most or all of the water was evacuated from the well. Once the groundwater level in the monitoring well had nearly recovered, the transducer was pulled and the data was downloaded onto a field laptop computer. Barometric (atmospheric) pressure was collected just prior and immediately after each test.

Data from the pumping tests was analyzed with Waterloo Hydrogeologic Inc. (now Schlumberger Water Services) Aquifer Test Pro 3.5 groundwater software using the Bouwer & Rice solution method. The analysis method was chosen based on performing the analysis on an unconfined overburden aquifer. Barometric pressure was subtracted (barometric pressure correction) from the pressure recorded by the transducer within the well before the data was entered into the software.

Analysis data plots for the slug/bail tests are included in Appendix H of this report. The slug/bail test data indicate a range of hydraulic conductivities for the tested monitoring wells that varies over approximately three orders of magnitude. The calculated hydraulic conductivity for the overburden aquifer at the Property ranges from 0.00343 to 0.107 feet per day (ft/day).

The slug/bail tests indicate the flowing hydraulic conductivities for the tested monitoring wells:

TABLE 6.6		
HYDRAULIC CONDUCTIVITY TABLE		
WELL ID	TYPE OF TEST	K (FT/DAY)*
MW-1R	Rising Head	3.43E-3
MW-8	Rising Head	1.07E-1
MW-9	Rising Head	3.14E-2
MW-10	Rising Head	3.06E-2
MW-1	Rising Head	2.97E-2

TABLE 6.6 HYDRAULIC CONDUCTIVITY TABLE		
WELL ID	TYPE OF TEST	K (FT/DAY)*
MW-12	Rising Head	1.47E-2

* Calculated using the Bouwer & Rice method.

For the purpose of this assessment a value of 1.0E-2 will be utilized. This value is higher than the median value and should provide a more conservative estimate of contaminant transport. Note that "true" in-situ hydraulic conductivity can vary by as much as one order of magnitude from a hydraulic conductivity calculated from a slug/bail test analysis.

All purge water was treated with a portable granular activated carbon unit prior to being discharged to the ground surface.

6.7 GROUNDWATER SEEPAGE VELOCITY

Groundwater seepage velocity (V_s) is calculated using the equation:

$$V_s \text{ (feet per year [ft/yr])} = (K \times I) / N_e \times 365 \text{ days per year}$$

where:

K = hydraulic conductivity (ft/day)

I = hydraulic gradient (foot/foot)

N_e = effective porosity

and:

$$K = 1.0 \times 10^{-2} \text{ ft/day (see Section 6.6)}$$

$$I = 0.060 \text{ (see Section 6.5)}$$

$$N_e = 0.2 \text{ (based on descriptions of soil)}$$

Then:

$$V_s = (1.0 \times 10^{-2} \text{ ft/day} \times 0.060) / 0.2 = 4.09 \times 10^{-2} \text{ ft/day} \times 365 \text{ days/yr} = 1.1 \text{ ft/yr (theoretical)}.$$

6.8 GROUNDWATER EXTRACTION

The area of the Site is served by private supply wells. None of the private supply wells is anticipated to influence groundwater flow beneath the site. Please see Section 3.8 of the Converse Work Plan and Section 7.4.7 of this report on supply well sample collection and results for additional information.

7.0 SITE CHARACTERIZATION ACTIVITIES

7.1 GENERAL

The Site Characterization field activities included the following primary tasks:

1. Completion of a Site-Specific Health and Safety Plan.
2. Completion of a Sensitive Receptor Survey for the area surrounding the Property.
3. Collection of water samples from potable supply wells located on adjacent properties.
4. Assessment of the soil vapor to indoor air pathway via soil vapor sampling and indoor air sampling.
5. Completion of a Soil Sample Collection Program using a Geoprobe Direct-Push soil sampling system. Twenty (20) soil borings (soil borings SB-8 through SB-27) were completed at the Property to assess the levels of residual petroleum constituents in soil.
6. Installation and development of sixteen (16) groundwater monitoring wells (monitoring well MW-1 through MW-16) at the site to assess the extent of the impacted groundwater plume. The groundwater monitoring wells were installed to depths of approximately 15 feet below grade (fbg) and were screened across the water table that was encountered during drilling.
7. Completion of multiple rounds of groundwater sample collection from the monitoring wells. At least two rounds of groundwater sample collection were collected from each monitoring well.
8. Completion of two (2) rounds of sample collection from the nearest on-lot supply wells located on adjacent properties.

Appendix A: Figure 2 presents the groundwater monitoring well locations. Appendix A Figure 3 presents the locations of soil borings. Appendix A: Figure 4 presents the location of vapor monitoring points and indoor air samples. Odyssey Environmental of Harrisburg, Pennsylvania provided the drilling installation services for the soil borings, soil vapor points, and monitoring wells. The initial soil borings, monitoring wells, and soil borings were supervised by Bluestone Environmental. Subsequent field activities were directed and supervised by Converse personnel.

7.2 HEALTH AND SAFETY PLAN

A site specific Health & Safety Plan that complies with Occupational Safety and Health Administration (OSHA) 29 CFR Part 1910.120 was completed prior to the initiation of field activities and was utilized at the Property during all field activities.

7.3 SENSITIVE RECEPTOR SURVEY

7.3.1 General

A receptor survey was performed to identify receptors (current and future) that may be exposed to the contaminant release. The receptor survey for the Property included the following components:

- Review of Pennsylvania Ground Water Information System (PaGWIS) data base for the Site vicinity.
- Review of local water use information.
- A PNDI search for the Property.
- Reconnaissance of the Site vicinity.

7.3.2 PAGWIS Database Summary

A search for groundwater wells was performed utilizing the Pennsylvania Ground Water Information System (PAGWIS) database for the Property and surrounding 0.5 mile radius. The PAGWIS website states "Well record data in PAGWIS come from various sources (US Geological Survey, PA Dept. of Environmental Protection, Susquehanna River Basin Commission, PA Dept. of Agriculture), but the vast majority is from well records submitted to the Pennsylvania Geological Survey by water well drillers. Well records submitted by drillers have been added to the database at various times over the years, starting in 1969." Those data are summarized below.

1. Public Supply Wells - The PAGWIS database identified two public water supply wells within 0.5 miles of the Property. The wells are owned by Woodloch and are located south of the site at a distance that is not anticipated to be potentially impacted by the plume.
2. Domestic Supply Wells - The PAGWIS identified no domestic supply well within a 0.5 mile radius of the Property. Known on-lot supply well locations are discussed in a subsequent section.
3. Agriculture Wells - The PAGWIS database identified no agricultural well within a 0.5 mile radius of the Property.
4. Industrial Wells - The PAGWIS database identified no industrial supply well within a

0.5 mile radius of the Property.

5. Geothermal Wells - The PAGWIS database identified no geothermal wells within a 0.5 mile radius of the Property.
6. Groundwater Monitoring Wells - The PAGWIS identified twenty five (26) groundwater monitoring/extraction wells within a 0.5 mile radius of the Property. These wells are all associated with the current ongoing environmental assessment and remediation of the Site.

7.3.3 Groundwater Use

Local records and interviews with property owners indicate that the area of the Site is served by the Woodloch supply wells (currently operated by Aqua PA) and private on-lot supply wells. Although the former Rosemergy's store was served by a private on-lot well, the new Facility on the Property is served by the public water system that has assumed control of the Woodloch wells. The former residential well on the Property was reportedly abandoned as part of the construction of the new fuel facility. Several adjacent properties are still served by private on-lot wells.

7.3.4 PNDI Search

Converse performed a Pennsylvania Natural Diversity Index (PNDI) search for the Former Rosemergy Convenience Store Property. The PNDI search identifies threatened and endangered species or special concern species and resources that are potentially located in the search area. The PNDI search indicated that several species of concern potentially exist in the area of the Site. As no excavation or clearing activities are currently planned in unpaved areas, the species identified in the PNDI search are not expected to be impacted by cleanup activities at the Site. If additional measures are required, additional information will be requested from DCNR.

7.3.5 Area Reconnaissance

Converse performed a door-to-door survey and site reconnaissance of the Property and vicinity to identify potential receptors. With the exception of the previously discussed domestic supply wells and potential receptors based on site use (employees, visitors, and construction workers), no potential receptor was identified during the site reconnaissance. The nearest surface water body is located approximately 1200 feet from the Property. The nearest off-Property residence does not have a basement.

7.4 SAMPLE COLLECTION AND ANALYSIS

7.4.1 General

Soil and groundwater samples that were collected as part of site characterization activities were analyzed for the unleaded gasoline indicator compounds and by the analytical methods that are published in the PADEP *Technical Document 2530-BK-DEP2008: Closure Requirements for Underground Storage Tank Systems, Effective April 1, 1998 (1998 UST Technical Document)* unless otherwise noted. Soil vapor samples were analyzed for the unleaded gasoline parameters in the *1998 UST Technical Document* by Method TO-15.

Field and laboratory QA/QC protocol was consistent with PADEP protocol and with those that are published in the United States Environmental Protection Agency (USEPA) document titled *Solid Waste, Test Methods for Evaluating Solid Waste (EPA Manual SW-846)*. The VOC portion of the soil samples was collected in accordance with *USEPA Method SW846 5035*. One (1) trip blank and one (1) duplicate sample were generally submitted with each sample set analyzed to provide quality assurance.

Nitrile disposable gloves were worn during sample collection activities and were changed prior to the collection of each sample. Each sample was given a unique identification number that was recorded on the field log, the Chain of Custody record, and the sample label.

All samples were placed in a cooler and chilled with ice for shipment to the analytical laboratory. All samples remained in the possession of Converse personnel until transferred to the analytical laboratory or to a courier for delivery to the analytical laboratory. Chain of Custody documentation was completed for and attended each sample set.

Single-use syringes, scoops, gloves, and acetate liners were used to collect the soil samples. Pumps with dedicated tubing or disposable bailers were used to purge and/or sample the wells.

7.4.2 Monitoring Well Construction and Development

Sixteen (16) groundwater monitoring wells were installed in the unconsolidated overburden at the Site to assess the extent of impacted groundwater. Monitoring wells MW-1 through MW-7 and MW-12 through MW-15 were installed on the former Rosemergy property. Monitoring wells MW-8, MW-9, and MW-16 were installed south of Rosemergy's on property owned by Woodloch. Monitoring wells MW-10 and MW-11 were installed east of Rosemergy's on property owned by the Jensens. The monitoring wells were completed using a Geoprobe rig using hollow stem augers. At each monitoring well location, 1.6-inch diameter by 5-feet long, soil cores were collected continuously from grade to the bottom of the boring. Monitoring well MW-6 was abandoned as part of the construction of the new convenience store by Lochgen. Analytical data indicates that monitoring well MW-6 was not in an area impacted by the release from the former UST systems.

All monitoring wells were installed by Odyssey Environmental of Harrisburg, Pennsylvania. The monitoring wells were installed as follows:

- MW-1 through MW-6 were installed under the direction of Bluestone Environmental during the period of March 13 through March 19, 2012.
- MW-7 through MW-9, MW-1R, and MW-12 were installed under the direction of Converse Consultants during the period of October 28 and October 29, 2013.
- MW-10 and MW-11 were installed under the direction of Converse Consultants on January 21, 2014.
- MW-13 through MW-16 were installed under the direction of Converse Consultants during the period of April 16 through April 17, 2014.

The wells were constructed similar to the requirements that are described in the PADEP 383-3000-001: *Pennsylvania Groundwater Monitoring Guidance Manual, December 1, 2001 (2001 GM Guidance Manual)* and *ASTM Standard D 5092-04*. The monitoring wells were completed to depths of approximately 15 feet below grade and the wells were screened across the water table encountered during drilling with 2-inch diameter, Schedule 40, 0.010-inch factory slotted, flush threaded, PVC screen. The borehole above the screened interval was cased with 2-inch diameter, Schedule 40, flush threaded PVC riser. The annular space between the borehole and the well

screen was filled with sand to approximately 1 foot above the screened interval. The remaining annular space was filled with bentonite and concrete. The monitoring wells were secured with an expandable locking cap and padlock and completed at the surface with a flush-mount, bolt-down, water-tight, manhole. Appendix D: Well Logs presents a summary of well construction and a description of the materials encountered and the field screening results logged during the installation of the monitoring wells.

In general, the monitoring wells were developed by Converse or Bluestone personnel to remove fine-grained material and to initiate hydraulic communication with the aquifer. Monitoring wells were developed using a direct current (DC) submersible 1.5 inch diameter Whale® (model #921) pump with a booster (inline mounted Whale® pump) and a 0.5-inch diameter polyethylene discharge line capable of pumping approximately two (2) gallons per minute (GPM) (depth dependent) consistent with the PADEP 2001 Guidance Document. Each well was purged for approximately ten (10) minutes with intermittent surging (vertical movement of the pump over a distance of 2 to 3 feet within the well during development pumping). Development of each well was terminated when the purge water had little to no turbidity. As the monitoring wells are not installed in ideal aquifer materials, turbidity often returns to the monitoring well after development is complete.

7.4.3 Soil Samples

7.4.3.1 Sample Collection

On March 13 through March 16 and March 19, 2012, Bluestone contracted with Odyssey Environmental Services to install soil borings to delineate contamination. A total of 20 soil borings were installed to a depth of fifteen (15) feet below ground surface (bgs). Borings were numbered SB-008 through SB-027 (Designations SB-001 through SB-007 were not used to avoid confusion with historical assessment activities). The soil borings were drilled and sampled similar to the methods that are described in *ASTM Standard D 6282-98*. At each boring location two-inch diameter direct-push soil cores were used to collect soil samples continuously from grade to the bottom of the boring.

The soil was visually inspected and logged in the field noting soil color, texture, moisture content, odor, and was characterized similar to the methods that are described in *ASTM Standard D 2488-93*. The liners were divided into roughly 2-foot intervals and a portion of each 2-foot interval was then transferred and allowed to equilibrate in a sealable plastic bag. After approximately 2 minutes, each sample was gently agitated to facilitate the partitioning of vapors into the headspace of the bag, and then field screened utilizing a Photoionization Detector (PID). A copy of the Soil Boring logs is included as Appendix D.

Soil samples that were submitted for laboratory analysis were either representative of "worst case" conditions in the respective boring, or, if no impact was identified, were collected from a variety of depths to provide an assessment of the potential vertical distribution of petroleum constituents in the saturated and unsaturated zones. Soil samples that were submitted for laboratory analysis were transferred directly into laboratory-supplied glassware, and were not the portion of the sample that was collected for field screening purposes. The boreholes were filled to grade with bentonite and patched with an appropriate material.

7.4.3.2 Sample Analysis

Twenty (20) soil samples were collected from the twenty (20) soil borings (one sample per borehole) completed around the area of the former UST systems. Samples were analyzed by Fairway labs of Altoona, Pennsylvania for the unleaded gasoline constituents on the 2008 PADEP Petroleum Short list. Appendix B: Table 2 summarizes the soil laboratory data. Appendix A: Figure 3 presents the locations of the site characterization soil borings.

Levels of at least one (1) short list petroleum constituent exceeded the the NRMSC SHSs in all soil samples except the soil sample collected from SB-15. Soil boring SB-15 was the easternmost boring located near the Jensen property boundary. Soil laboratory reports and the corresponding Chain-of-Custody are presented in Appendix C.

With respect to the vertical distribution of contaminants in the overburden soil, the highest PID readings were encountered at the approximate depth of the water table smear zone that was encountered at depths of approximately 4 feet to 9 feet below grade. The distribution of analytes in soil indicates that the impacted unsaturated zone soil was removed as part of the UST closure activities. No residual source area is indicated to be present in the unsaturated zone. The distribution of contaminants in saturated soil corresponds to the migration of groundwater from the former source area.

In general, the highest concentrations of analytes were detected in soil samples that were collected west of the former UST excavation (soil borings SB-20 through SB-24). The area west of the UST excavation is also the area where the highest PID readings were observed during the soil borings. Appendix A: Figure 8 shows the highest PID concentration recorded in each of the soil borings.

7.4.3.3 Soil Analytical Summary

In general, the highest levels of petroleum constituents in each soil boring were detected at the soil/groundwater interface. In general, the highest levels of petroleum constituents in soil were detected in borings west (downgradient) of the former UST excavation. No residual source area is indicated to be present in the unsaturated zone.

7.4.4 Soil Gas Samples

7.4.4.1 Soil Gas Vapor Point Installation and Soil Gas Vapor Sample Collection

Four (4) soil vapor sample points were previously installed between the source area and the buildings at the Site by Bluestone using a Geoprobe. The soil vapor points were constructed of 0.75-inch diameter PVC installed to a depth of approximately 5 feet below grade with six-inches of screened interval at the bottom. It is our understanding that three (3) vapor points were subsequently destroyed by site development activities before they were sampled. The remaining vapor point, VP-1, is located between the former source area and the new convenience store at the Property. A second vapor point, VP-2, was installed between the source area and the building by Converse. VP-2 was installed to four feet below grade using a hammer drill. VP-2 consists of a 4" inch long stainless steel slotted implant connected to the ground surface by poly tubing. A third vapor point was planned for the Woodloch property south of the site to assess

vapor migration towards the residence south of the Former Rosemergy property. The third vapor point was not installed because groundwater is present at approximately 0.5 feet below grade at the planned location of VP-3 (adjacent to MW-16). Vapor and indoor air sample locations are shown on Figure 4 of Appendix A.

Soil Vapor Point sampling was conducted on February 4, 2014 and March 7, 2014 to evaluate potential vapor intrusion into the convenience store building from impacted groundwater.

The length of all sample transfer lines were kept as short as possible to minimize condensation of the extracted gas in the line. At least two (2) interior-diameter (ID) air volumes are purged prior to sample collection using a peristaltic pump.

Soil gas samples were collected using laboratory-supplied SUMMA Canisters (6 liter volume) over a period of two (2) hours. The SUMMA Canisters are purged, decontaminated, and sampled at the laboratory prior to shipment. One (1) duplicate soil vapor sample was submitted for laboratory analysis for quality control.

Each sample was given a unique identification number that was recorded on the field log, the Chain of Custody record, and the sample label. Chain of Custody documentation was completed for and accompanied each sample set. The samples were stored and shipped in accordance with requirements for the TO-15 method. Single-use, factory decontaminated nylon tubing was used to collect the samples therefore decontamination of the sample equipment was not necessary.

7.4.4.2 Laboratory Analysis

During each sampling event, three soil gas samples SV-1/VP-1 (sample of VP-1), SV-2/VP-2 (sample of VP-2), and SV-3/VP-3 (duplicate sample of SV-1/VP-1) were submitted for laboratory analysis. Appendix A: Figure 4 presents the locations of soil gas points. Appendix B: Table 4 summarizes the soil gas laboratory data. Appendix C presents chain-of-custody documentation and laboratory reports. Laboratory reports present the results as parts per billion by volume (ppbv) and micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

No compound was identified in the ambient air sample at a concentration greater than the residential medium specific concentration for soil gas (RMSC_{SG}). An example calculation for the conversion of laboratory units is presented in Appendix F.

As presented in Appendix B: Table 4, no compound exceeded the residential MSC_{SG} (RMSC_{SG}) or nonresidential MSC_{SG} (NRMSC_{SG}) in the soil gas samples collected from the two (2) soil vapor points (SV-1 and SV-2) located between the former release area and the building.

PADEP, 2004: Appendix A references §250.4 and provides a relative list of reporting limits (RLs) that represent PQLs for air analysis and states that “determining a PQL is specific to a particular laboratory”. The LQLs for all compounds were less than the PQLs.

7.4.5 Indoor Air Samples

7.4.5.1 Sample Collection

The *Pennsylvania's Land Recycling Program, Technical Guidance Manual*, (253-0300-100), May 4, 2002 (2002 LRP TGM): *Draft Vapor Intrusion Into Indoor Structures (June 14, 2002 draft partial)* was used to identify appropriate screening methods to evaluate if an unacceptable risk is posed to indoor air quality (IAQ) as the result of vapor intrusion into a structure.

The collection of IAQ samples was the selected screening method because:

1. The use of screening values is inappropriate because insufficient soil is present between the depth of the plume and the base of the residential structure
2. The depth to water precluded the use of soil vapor wells.

A Pre-Sampling Inspection protocol was developed to identify if appropriate sampling conditions were present prior to the collection of the samples. “Appropriate sampling conditions” was defined as no potential source of petroleum vapors, other than vapor intrusion from groundwater, could be identified in the sample area during the Pre-Sampling Inspection. The Pre-Sampling Inspection included the:

1. Interview of the property owner or occupant relating to the past or current use or

storage of petroleum products in the sample area.

2. Visual inspection of the sample area for storage containers or equipment that might contain petroleum products.
3. Visual inspection of the sample area for penetrations or vents that might convey vapors from other areas of the structure.
4. Visual inspection of the sample area for stains or discoloration that might indicate the storage and/or spill or release of a petroleum product.

The pre-sampling protocol did not identify any conditions that would indicate a conflict with the proposed sampling method.

Indoor air quality (IAQ) sampling was conducted on June 18, 2014 to evaluate vapor intrusion into the adjacent residential structure from impacted groundwater as part of the site characterization.

Soil vapor and indoor air sample locations are shown on Figure 4 of Appendix A.

A total of two (2) samples were collected from the Woodloch property that is located south of the former Rosemergy property. Sample IA-1 was collected inside the residence within the entry hallway on the north side of the residence (closest to former Rosemergy property). Sample IA-2 was collected just outside the residence on the north side of the building as a means of eliminating any background (outdoor) concentrations of analytes.

The samples were collected using a using a 6-liter Summa canister for a period of four (4) hours. The SUMMA Canisters are purged, decontaminated, and sampled at the laboratory prior to shipment. Each sample was given a unique identification number that was recorded on the field log, the Chain of Custody record, and the sample label. Chain of Custody documentation was completed for and accompanied each sample set. The samples were stored and shipped in accordance with requirements for the TO-15 method.

7.4.5.2 Laboratory Analysis

A total of two (2) air samples were collected from the Woodloch property that is located south of the former Rosemergy property. The samples were analyzed using USEPA Method TO-15 by Contest Analytical Laboratory, East Longmeadow, Massachusetts.

Gasoline constituents were detected in the indoor air sample but were not present at levels that exceed the RMSC SHSs for indoor air that are published by PADEP. The detection limits for all compounds were below the applicable standards. Laboratory reports and chain of custody forms are presented in Appendix C.

A second round of indoor air sample collection is planned for winter 2015 to provide data during the winter season. The lack of a second sampling round at this point in time will not delay the design and implementation of remedial measures as the remedial measures conducted at the property are not dependent on the indoor air data for distal portions of the plume. If remediation of vapors is required at the residence it will be completed independent of any measures that are undertaken to remediate impacted saturated soil and groundwater.

7.4.6 Groundwater Samples

7.4.6.1 Water Level Gauging and Groundwater Sample Collection

Multiple rounds of groundwater sample collection and analysis have been conducted to characterize groundwater during the course of the site characterization phase. As discussed previously, additional groundwater monitoring wells were added in phases to address data gaps. Unless otherwise noted, all accessible groundwater monitoring wells were sampled during each event. Groundwater sample collection events were conducted on the following dates:

May 8, 2012

June 7, 2012

November 8, 2013

December 11, 2013

February 4, 2014 (MW-10 through MW-12 only)

March 7, 2014

April 29, 2014 (MW-13 through MW-16 only)

June 12, 2014

Prior to sample collection, groundwater levels were measured at each monitoring well and the respective saturated casing volumes were calculated. Each well was then purged of at least three (3) saturated casing volumes or until all standing water was evacuated from the well prior to sample collection. The monitoring wells were purged and sampled using a peristaltic pump or "whale" pump and disposable tubing. The temperature, specific conductivity, and pH of the purge water were monitored at the beginning and end of each purge event. Potentially impacted purge water was treated on-site using granular activated carbon and discharged to the ground surface in the vicinity of the wells. Water samples were transferred directly into laboratory supplied glassware. Groundwater samples collected for VOC analysis were transferred to 40 milliliter (mL) VOA vials and preserved with hydrochloric acid (HCL).

No separate phase liquid (SPL) was observed during the purge or groundwater sample collection activities. Additional information on sampling protocols is discussed in the 2013 Converse Work Plan.

7.4.6.2 Laboratory Analysis

7.4.6.2.1 General

As previously discussed, all accessible groundwater monitoring wells were sampled during each event unless otherwise noted. All groundwater samples were analyzed by Fairway Laboratories of Altoona, Pennsylvania for the unleaded gasoline constituents on the 2008 Petroleum short list.

No compound was identified in a trip blank at a concentration greater than the LQL. The LQLs for all compounds were less than the PQLs.

7.4.6.2.2 May 2012 Sampling Event

The May 2012 event included sample collection from monitoring wells MW-1 through MW-6. Concentrations of petroleum constituents exceeded the RMSC SHSs in

groundwater samples that were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5. The highest analyte concentrations were detected in monitoring wells MW-1, MW-3, and MW-4 that are located west, north, and south of the former UST excavation. The concentrations of all analytes in the groundwater sample from monitoring well MW-1 exceed the applicable RMSC SHSs. A benzene isoconcentration map for the May 2012 event was included in Appendix A of the Converse Work Plan submitted to PADEP in September 2013.

No compound was identified at a concentration greater than the LQLs in monitoring well MW-6. The LQLs for all compounds were less than the promulgated RMSC SHSs. Laboratory reports and chain of custody data are presented in Appendix C. Appendix B: Table 3 summarizes the groundwater analytical data.

7.4.6.2.3 June 2012 Sampling Event

The June 2012 event included sample collection from monitoring wells MW-1 through MW-6. Concentrations of petroleum constituents exceeded the RMSC SHSs in groundwater samples that were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5. The highest analyte concentrations were detected in monitoring wells MW-1, MW-3, and MW-4 that are located west, north, and south of the former UST excavation. The concentrations of all analytes in the groundwater sample from monitoring well MW-1 except isopropylbenzene exceed the applicable RMSC SHSs. A benzene isoconcentration map for the May 2012 event was included in Appendix A of the Converse Work Plan submitted to PADEP in September 2013.

No compound was identified at a concentration greater than the LQLs in monitoring well MW-6. The LQLs for all compounds were less than the promulgated RMSC SHSs. Laboratory reports and chain of custody data are presented in Appendix C. Appendix B: Table 3 summarizes the groundwater analytical data.

Based on the analytical data for the May and June 2012 events, additional groundwater monitoring wells were installed at the site to assess the impacted groundwater plume.

7.4.6.2.4 November 2013 Sampling Event

The November 2013 event included sample collection from monitoring wells MW-1 through MW-9 (except for MW-6 that was destroyed during site development) and MW-12. Monitoring wells MW-10 and MW-11 were not installed yet due to off-Property access issues. Concentrations of petroleum constituents exceeded the RMSC SHSs in groundwater samples that were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-7, and MW-9. The highest analyte concentrations were detected in monitoring wells MW-1, MW-2, MW-4, and MW-7 that are located west, north, and south of the former UST excavation. The concentrations of all analytes in the groundwater sample from monitoring well MW-1 except isopropylbenzene and xylenes exceeded the applicable RMSC SHSs. The concentration of benzene in the groundwater sample from monitoring well MW-9 (13 ug/l) located on the Woodloch property exceeded the RMSC SHS.

A benzene isoconcentration map for the November 2013 event is included as Figure 6A of Appendix A. An MTBE isoconcentration map for the November 2013 event is included as Figure 7A of Appendix A. The distribution of contaminants indicate groundwater flow to the west and south-southeast from the former UST area. A groundwater contour map for the November 2013 event is included as Figure 5A of Appendix A.

The LQLs were generally less than the promulgated RMSC SHSs. Laboratory reports and chain of custody data are presented in Appendix C. Appendix B: Table 3 summarizes the groundwater analytical data.

7.4.6.2.5 December 2013 Sampling Event

The December 2013 event included sample collection from monitoring wells MW-1 through MW-9 (except for MW-6 that was destroyed during site development) and MW-12. Monitoring wells MW-10 and MW-11 were not installed yet due to off-Property access issues. Concentrations of petroleum constituents exceeded the RMSC SHSs in groundwater samples that were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-7, and MW-9. The highest analyte concentrations were detected in monitoring wells MW-1, MW-2, MW-4, and MW-7 that are located west, north, and

south of the former UST excavation. The concentrations of all analytes in the groundwater sample from monitoring well MW-1 except isopropylbenzene and xylenes exceeded the applicable RMSC SHSs. The concentration of benzene in the groundwater sample from monitoring well MW-9 (17 ug/l) located on the Woodloch property exceeded the RMSC SHS.

A benzene isoconcentration map for the December 2013 event is included as Figure 6B of Appendix A. An MTBE isoconcentration map for the December 2013 event is included as Figure 7B of Appendix A. The distribution of contaminants indicate groundwater flow to the west and south-southeast from the former UST area. A groundwater contour map for the November 2013 event is included as Figure 5B of Appendix A.

The LQLs were generally less than the promulgated RMSC SHSs. Laboratory reports and chain of custody data are presented in Appendix C. Appendix B: Table 3 summarizes the groundwater analytical data.

Based on the analytical data for the November and December 2013 events, additional groundwater monitoring wells were installed to the south and west to assess the impacted groundwater plume.

7.4.6.2.6 February 2014 Sampling Event

The February 2014 event included sample collection from newly installed monitoring wells MW-10 and MW-11 only. No analyte was detected in groundwater samples from monitoring wells MW-10 and MW-11 at concentrations that exceed the applicable RMSC SHSs. Trace concentrations of benzene were detected in both samples.

The LQLs were less than the promulgated RMSC SHSs. Laboratory reports and chain of custody data are presented in Appendix C. Appendix B: Table 3 summarizes the groundwater analytical data.

7.4.6.2.7 March 2014 Sampling Event

The March 2014 event included sample collection from monitoring wells MW-1 through MW-12 (except for MW-6 and wells noted below). Monitoring wells MW-3, MW-4, and MW-7 could not be sampled during March due to snow cover and development activities. Concentrations of petroleum constituents exceeded the RMSC SHSs in groundwater samples that were collected from monitoring wells MW-1, MW-2, and MW-9. The highest analyte concentrations were detected in monitoring well MW-1 that is located west of the former UST excavation. The concentrations of all analytes in the groundwater sample from monitoring well MW-1 except isopropylbenzene exceed the applicable RMSC SHSs. The concentration of benzene in the groundwater sample from monitoring well MW-9 (96 ug/l) located on the Woodloch property exceeded the RMSC SHS.

A benzene isoconcentration map for the March 2014 event is included as Figure 6C of Appendix A. An MTBE isoconcentration map for the March 2014 event is included as Figure 7C of Appendix A. The distribution of contaminants indicate groundwater flow to the west and south-southeast from the former UST area. A groundwater contour map for the March 2014 event is included as Figure 5C of Appendix A.

The LQLs were generally less than the promulgated RMSC SHSs. Laboratory reports and chain of custody data are presented in Appendix C. Appendix B: Table 3 summarizes the groundwater analytical data.

7.4.6.2.8 April 2014 Sampling Event

The April 2014 event included sample collection from newly installed monitoring wells MW-13 through MW-16 only. No analyte was detected in groundwater samples from monitoring wells MW-13 through MW-16 at concentrations that exceed the applicable RMSC SHSs. MTBE was detected in monitoring well MW-16 (9 ug/l) at a concentration that is below the RMSC SHS.

The LQLs were less than the promulgated RMSC SHSs. Laboratory reports and chain of custody data are presented in Appendix C. Appendix B: Table 3 summarizes the groundwater analytical data.

7.4.6.2.9 June 2014 Sampling Event

The June 2014 event included sample collection from monitoring wells MW-1 through MW-16 (except for previously destroyed MW-6). Monitoring well MW-2 could not be sampled in June due to site development activity that temporarily made the location inaccessible. Concentrations of petroleum constituents exceeded the RMSC SHSs in groundwater samples that were collected from monitoring wells MW-1, MW-3, MW-4, MW-5, MW-7, and MW-9. The highest analyte concentrations were detected in monitoring wells MW-1, MW-4, and MW-5 that are located west and south of the former UST excavation. The analyte concentrations detected in groundwater from MW-5 were much higher than previous groundwater sampling rounds. Significant increases in concentrations were also observed in monitoring well MW-3. Consistent with previous results, the concentration of benzene in the groundwater sample from monitoring well MW-9 (58 ug/l) located on the Woodloch property exceeded the RMSC SHS.

A benzene isoconcentration map for the June 2014 event is included as Figure 6D of Appendix A. An MTBE isoconcentration map for the June 2014 event is included as Figure 7D of Appendix A. The distribution of contaminants indicate groundwater flow to the west and south-southeast from the former UST area. A groundwater contour map for the June 2014 event is included as Figure 5D of Appendix A.

The LQLs were generally less than the promulgated RMSC SHSs. Laboratory reports and chain of custody data are presented in Appendix C. Appendix B: Table 3 summarizes the groundwater analytical data.

7.4.6.2.10 Indicator Parameters

Based on the June 2014 sampling event that provides the most complete set of data, dissolved oxygen levels were generally highest in monitoring wells MW-14, MW-15, and MW-16 that are located furthest from the impacted groundwater plume in areas that are not covered by asphalt. ORP levels in the monitoring wells are generally lowest in the middle of the impacted groundwater plume, as expected.

7.4.6.2.11 Groundwater Analytical Data Evaluation

The laboratory results indicate that petroleum constituents in the groundwater are present beneath the Property and the adjacent Woodloch property at levels that exceed the RMSC SHSs. UST closure data and the analytical data indicate that the petroleum product released at the site was unleaded gasoline. The highest levels of gasoline constituents have been detected in monitoring wells west of the former leaking UST system consistent with the local direction of groundwater flow indicated by water level data.

UST closure information and soils data indicate that impacted unsaturated zone soil was removed for off-site disposal. The source of the current groundwater plume is residual unleaded gasoline constituents in the soil smear zone located at the top of the water table. As the new UST systems at the Property are located outside of the impacted groundwater plume, no potential source area of additional petroleum product has been identified in the area of the release. Buried petroleum refuse related to the garage operation that was identified north of the building (and remediated under a separate case number with PADEP) is also located outside of the area currently impacted by the unleaded gasoline release.

As previously discussed, the principal direction of contaminant transport beneath the site is to the west. Groundwater level data and the observed distribution of contaminants also indicate a component of flow to the southeast. The impacted groundwater plume has not migrated to the west or southeast beyond the current monitoring well network at levels that exceed the RMSC SHSs

Insufficient rounds of quarterly groundwater sample collection have been completed to provide a meaningful analysis of groundwater trends. However, groundwater sample collection events for the central area of the impacted groundwater plume date back to May of 2012. Historical data for the core of plume indicate stable contaminant concentrations in monitoring wells MW-1 and MW-4, a general decline in concentrations in monitoring wells MW-2 and MW-7, and a post-construction increase in concentrations in monitoring wells MW-3 and MW-5.

7.4.7 On-Lot Supply Well Samples

7.4.7.1 Sample Collection

The Converse Work Plan specified sample collection from the on-lot supply wells on adjacent properties #1 (Jensen property), #2 (Rosemergy property), and #12 (Woodloch property) of Figure 8. Mr. Jensen did not provide access for the collection of a supply well sample from his Property. As the well on the Jensen is approximately 1000 feet northeast of the former leaking UST system it is not within the area potentially impacted by the release. Samples from the on-lot supply wells at the Rosemergy (labelled SW-8) and Woodloch properties (labelled SW-12) were collected on 12/11/13 and 2/4/14

In general, supply well samples were collected in accordance with the Converse Work Plan. Samples were collected directly from a tap into laboratory supplied glassware after stagnant water within the system had been purged by running the water for an extended period of time.

7.4.7.2 Sample Analysis

Supply well samples were collected from the Woodloch Property (labelled SW-12) and the Rosemergy Property (labelled SW-8) on both sample collection dates. Samples were analyzed by Fairway labs of Altoona, Pennsylvania for the unleaded gasoline constituents on the 2008 PADEP Petroleum Short list.

As presented on Appendix B: Table 6, no unleaded gasoline constituent was detected in the on-lot supply well samples at a concentration that exceeded the laboratory quantitation limits (LQLs) or the RMSC SHSs. Appendix A: Figure 8 presents the locations of the properties that were sampled. Property owners were notified of the analytical results for their wells.

7.4.8 Waste Disposition

Potentially impacted soil cuttings that were generated during the completion of the soil borings and monitoring wells was containerized for subsequent disposition by Bluestone Environmental of Honesdale, Pennsylvania. Disposal manifests are included in Appendix E.

Purge water and development water from potentially impacted groundwater monitoring wells was treated using a granular activated carbon (GAC) canister and discharged to the ground surface at the Property. Discharge water from the GAC canister is periodically monitored and/or sampled during purge activities. No breakthrough of the carbon bed was detected during treatment events. The GAC unit is periodically emptied and filled with new coconut shell carbon (or equivalent) that is capable of removing the target analytes.

7.4.9 Elevation Survey

Kiley Associates LLC of Lakeville, Pennsylvania completed a survey of the locations and elevations of the monitoring wells that were utilized in this study to provide the data necessary to assess the direction of groundwater flow in the water table aquifer at and in the area of the Property. The location and top of casing (TOC) elevation for each well was measured relative to the 1983 North American Datum (NAD83) using the State Plane Coordinate System. The TOC elevations and the measured groundwater levels in each well were then used to calculate groundwater elevations at each monitoring well. Appendix B: Table 1 presents a tabulated summary of the elevation survey data, depth to water data, and calculated groundwater elevation data. Appendix A: Figures 5A through 5D present groundwater contour maps for four (4) of the groundwater sample collection events.

8.0 INDOOR AIR QUALITY EVALUATION

8.1 GENERAL

The presence of Volatile Organic Compounds (VOCs) in groundwater pose the potential for vapor intrusion into a structure. The Pennsylvania Land Recycling Program, *Technical Guidance Manual, (253-0300-100)*, May 4, 2002 (*2002 LRP TGM*): Section IV(A)(4) Vapor Intrusion Into Buildings from Groundwater and Soil under the Act 2 Statewide Health Standard, dated January 24, 2004 (*2004 Vapor Intrusion Guidance*) provides guidance and was used for the assessment of potential subsurface vapor intrusion of volatile organic compounds into buildings.

8.2 DECISION MATRIX

8.2.1 General

The *2004 Vapor Intrusion Guidance: Figure 1 - GW IAQ Decision Matrix for SHS* and *Figure 2 - Soil IAQ Decision Matrix for SHS* provide decision matrices for screening activities.

8.2.2 Groundwater Decision Matrix

No separate phase liquid (SPL) has been identified at the Property. The Property building and the residence on the adjacent property to the south are within 100 feet of the impacted groundwater plume. No active preferential pathways have been identified at the Site although water in some locations is present at depths that could impact utility lines trenches. Assessments of soil vapor and indoor air (See Sections 7.4.4 and 7.4.5) were completed to evaluate potential vapor migration from groundwater to indoor air at the Site.

8.2.3 Soil Decision Matrix

Soil data collected after UST closure activities indicate that unsaturated soil is not a current contaminant source area at the Site. No additional assessment is required at the site to evaluate the soil volatilization to indoor air pathway.

9.0 EVALUATION OF POTENTIAL DISCHARGES TO SURFACE WATER

9.1 GENERAL

§245.310(a)(29) references that an evaluation of impacts to surface water may be conducted in accordance with §250.309 or §250.406, as necessary. §250.309(a) requires that “any regulated discharge to surface waters shall comply with the applicable provisions of Chapters 91-96, 97 (reserved), 102, 103 and 105, including antidegradation requirements, and may not cause an exceedance of the applicable water quality standards for the surface water in question”.

No surface water body is present on the Property. The site is located approximately 1,200 feet south of Little Teedyuskung Lake. The lake drains into West Falls Creek which passes approximately 1,100 feet northeast of the site. West Falls Creek flows southeast to the Lackawaxen River. The site is located approximately 2,200 feet northeast and northwest, respectively, of two (2) small creeks that drain south into the Lackawaxen River.

§250.309(b) requires that “for point source discharges to surface water, compliance shall be measured at the point of discharge in accordance with limits specified in the NPDES permit”. No point source discharge to surface water is present at the Property, and §250.406(b) is not applicable to this Property.

§250.309(c) presents compliance requirements for surface water quality standards for diffuse surface water and diffuse groundwater discharge. Residual constituents in groundwater have the potential to degrade surface water quality in the surface water. An evaluation of diffuse groundwater discharge to surface water is discussed in Section 9.2.

§250.309(d) requires an evaluation of diffuse surface water discharge to surface water from springs. No spring was identified at or in the area of the Property, and §250.309(d) is not applicable to this Property.

9.2 DIFFUSE GROUNDWATER DISCHARGE TO SURFACE WATER

Groundwater flow in the shallow overburden deposits is influenced by groundwater mounding in the southeast corner of the former Rosemergy Property. The distribution of contaminants and contours of the potentiometric surface (See Figures 5A through 5D of Appendix A) indicate that groundwater flow is primarily to the west and south-southeast. Fate and transport analysis and the distribution of contaminants within the overburden indicate that the impacted groundwater plume does not extend beyond the current monitoring well network at the Site and does not reach the identified surface water bodies. In the absence of preferential pathways, the direction of transport and limited mobility precludes the impacted groundwater within the shallow overburden from reaching surface water.

10.0 ECOLOGICAL RECEPTORS

§245.310(a)(28) references that an evaluation of impacts to ecological receptors may be conducted in accordance with §250.311 or §250.402(d), as necessary. §250.311 requires an evaluation of impacts to ecological receptors. The ecological receptors that are identified in §250.311(a) are:

1. Individuals of threatened and endangered species as designated by the United States Fish and Wildlife Service under the Endangered Species Act (16 U.S.C.A. §§ 1531-1544).
2. Exceptional value wetland as defined by §105.17.
3. Habitats of concern.
4. Species of concern.

In accordance with §250.311(b), no additional evaluation of ecological receptors is required at the Facility because it meets all three (3) criteria that are available for exemption from further assessment. Namely,

1. Gasoline/diesel fuel/heating oil was the only source of constituents detected at the Site.
2. The area of contaminated soil is less than 2 acres (and impacted sediment is less than 1,000 square feet).
3. The site has features such as paved areas and buildings that limit potential exposure to impacted soil

11.0 FATE AND TRANSPORT ANALYSIS

11.1 GENERAL

Fate and transport analysis can be used to predict constituent concentrations in soil and groundwater at one (1) or more locations and at specific times. The *Pennsylvania's Land Recycling Program, Technical Guidance Manual, (253-0300-100), May 4, 2002 (2002 LRP TGM)*: Section IV.A presents a description of how fate and transport analysis can be applied to the three (3) cleanup standards.

The *2002 LRP TGM*: Section IV.A states that "fate and transport analysis or modeling is a necessary part of site characterization and demonstrating attainment of an Act 2 standard. However, the regulations governing Act 2 use the term 'fate and transport analysis' as opposed to 'fate and transport model.' This particular distinction was made because it will not always be necessary to run an analytical or numerical quantitative 'fate and transport model' to achieve a standard". Qualitative and analytical fate and transport modeling will be used to estimate future contaminant transport for COCs in site groundwater.

11.2 SITE CONCEPTUAL MODEL

11.2.1 Source and Extent

The site was developed as an automotive repair station with retail gasoline sales in approximately 1965. The site operated as both an automotive repair station and retail gasoline station until April 2000. The facility was out-of-service from April 2000 until February 2002. In February 2002, retail gasoline sales resumed at the site. A convenience store was also added in October 2002. The retail gasoline sales continued until March 2010.

The release of petroleum to the environment was first identified during a limited Phase II Environmental Assessment (Phase II) of the property on June 28th, 2011. The three (3) underground storage tanks (USTS) were removed from the Former Rosemergy's Convenient Store Facility in September 2011. Site Assessment Information generated during the removal and closure process indicated evidence of soil contamination throughout the excavation area. The heaviest contamination and highest field PID readings were identified directly below the pump island. The island

contained three dispensers. The heaviest soil contamination appeared to be under the center (unleaded gasoline) dispenser. The likely source of the release was the dispenser or piping connections under the dispenser. The leak appeared to be a slow release (chronic problem) that occurred over a multiple year period. There were no containment sumps under the dispensing units.

Approximately 100± tons, was removed from under the pump islands for off-site disposal as part of the UST closure activities. Soil borings completed since the USTs were removed have encountered widespread saturated zone soil that has been impacted by the release of gasoline, however no residual impacted soil appears to be present in the unsaturated zone. Groundwater samples collected from monitoring wells at the Site indicate that the residual petroleum constituents within the uppermost saturated soils represent the source area for the current impacted groundwater plume. In general, the highest concentrations in groundwater are associated with the highest levels of gasoline constituents detected in saturated soil.

The release of product impacted the shallow overburden (water table) aquifer beneath the Property. Groundwater mounding in the area of the former UST excavation effects groundwater transport beneath the Site. Flow within the shallow overburden aquifer flows toward the west with a component of flow to the south-southeast. The impacted groundwater extends beneath Route 590 to property owned by Woodloch. Although the Former Rosemergy Property is currently owned by Woodloch, it was not owned by Woodloch at the time that the release was discovered

11.2.2 Constituents of Concern

The following unleaded gasoline indicator compounds are considered to be the constituents of concern (COCs) at the Property:

CONSTITUENTS OF CONCERN (COCs)	
CONSTITUENTS	CASRN
Benzene	71-43-2
Cumene (isopropylbenzene)	98-82-8
Ethylbenzene	100-41-4

CONSTITUENTS OF CONCERN (COCs)	
CONSTITUENTS	CASRN
Methyl Tert-Butyl Ether (MTBE)	1634-04-4
Naphthalene	91-20-3
Toluene	108-88-3
1,2,4-Trimethylbenzene	95-63-6
1,3,5-Trimethylbenzene	108-67-8
Xylene	1330-20-7

11.2.3 Hydrogeology

Field data indicate that unconsolidated deposits are laterally extensive and serve as an aquifer beneath the Site. Groundwater in the area of the former UST system was encountered at a depth of approximately 4 feet below grade. The depth to groundwater indicates that the potential for preferential contaminant transport pathways exists at the site.

With respect to topography, the site is located near the saddle point that separates surface flow to the north towards Little Teedyuskung Lake from surface flow to the southeast and east towards creeks that drain into the Lackawaxen River. The site is located approximately 1,200 feet south of Little Teedyuskung Lake. The lake drains into West Falls Creek which passes approximately 1,100 feet northeast of the site. West Falls Creek flows southeast to the Lackawaxen River. The site is located approximately 2,200 feet northeast and northwest, respectively, of two (2) small creeks that drain south into the Lackawaxen River. The Lackawaxen River is located approximately 7,500 feet south of the site and flows from west to east (towards the Delaware River). The distribution of contaminants at the Site indicate that flow in the area of the former USTS is to the west with a minor component of flow to the south-southeast.

A cross section of the Site from west to east across the Site is included as Figure 9 of Appendix A.

Available geographical and historical data and the cross-section indicate:

1. The primary surface water discharge boundary in the area of the Site is the Lackawaxen River and its tributaries.
2. No distinct confining unit was evident in the subsurface that was evaluated by this study.
3. The overburden consists of a poorly stratified mixture of silty sands and silts, with varying amounts of gravel, and occasional clayey horizons. Bedrock was not encountered during site characterization activities that investigated to a depth of approximately 21 feet below grade.
4. The water table is indicated to be shallow and located just below the depth of utilities at the Site. Although data indicates that the distribution of contaminants is consistent with groundwater flow predicted from contour maps, utilities could potentially serve as preferential pathways during periods of high water levels.
5. Groundwater mounding within the unconsolidated overburden occurs at the eastern end of the former UST area.
6. Although groundwater is shallow, experience with open holes and excavations indicate that very little water is available in the shallow overburden. Measurements of aquifer properties indicate very slow groundwater transport velocities.

11.2.4 Plume Configuration, Contaminant Distribution, and Plume Stability

A release of unleaded gasoline was identified at the Site in 2011. The impacted soil and groundwater have MTBE which gained widespread use in the northeast United States around 1995. Most suppliers replaced MTBE with other oxygenates by 2009. Aqua PA reported encountering evidence of a release across from the former Rosemergy's Store in 2002, however it was not "confirmed" by subsequent sampling. Information from the 1996 Hydrotech Assessment that is included in Exhibit A of the Bluestone Work Plan indicates that BTEX constituents were detected in groundwater in July of 1996. Although it is difficult to establish an exact timeline, it appears that the release began in 1995 or 1996 and most likely continued until UST system closure in 2011.

Bedrock was not encountered during site assessment activities that reached a total depth of approximately 21 feet below grade. Contaminant distributions within the soil borings indicate that the highest levels of residual impacted saturated soil and groundwater are at the water table. Indicators of contamination were observed to decrease with depth below the water table.

As discussed previously, impacted groundwater extends to the west and southeast of the former UST system at levels that exceed the RMSC SHSs. Although data is insufficient to assess constituent concentration trends, no potential source of additional petroleum hydrocarbons has been identified in the area of the impacted groundwater plume. Based on the age of the release, the lack of an active source, and the slow predicted transport velocities predicted for groundwater, the plume would be expected to be stable or shrinking.

Increases in contaminant concentrations were observed in groundwater samples collected from monitoring wells MW-3 and MW-5 during the June 2014 sampling event. The increase is likely the result of major construction activities for the new convenience store (including removal and replacement of asphalt in the area of the impacted groundwater plume) completed in the spring of 2014.

11.3 FATE AND TRANSPORT IN THE UNSATURATED SOIL ZONE

The *2002 LRP TGM*: Section IV.A.1.(a) identifies that fate and transport analysis should be conducted for the unsaturated zone if constituents of concern (COCs) in the unsaturated zone are identified at concentrations greater than the Soil to Groundwater Numeric Value (SGNV) MSC SHS.

Site characterization activities indicate that unsaturated zone soil is not currently a potential source area.

11.4 FATE AND TRANSPORT IN THE SATURATED SOIL ZONE

PADEP, 2002: Section (IV)(A)(2) provides guidance for fate and transport analysis in the saturated zone if constituents in the saturated soil zone are identified at concentrations greater than the MSC SHS. Fate and transport models usually evaluate constituent fate and transport in saturated soil as a function of constituent fate and transport in groundwater at the source area. Fate and transport from this source term is evaluated in the following Section.

11.5 FATE AND TRANSPORT IN GROUNDWATER

11.5.1 General

Data indicate:

1. A release of product (unleaded gasoline) impacted soil and groundwater at the Property. The release is indicated to have been a slow release over a long time that may have begun as early as 1995.
2. Impacted unsaturated zone soils were remediated during UST closure activities.
3. The groundwater plume has been delineated both vertically and laterally.
4. An assessment of aquifer properties indicates that median transport velocities are expected to be extremely slow. This assessment is supported by the numerous excavations and boreholes that have been completed below the water table with minimal visible water infiltration.
5. As the UST systems have been moved to the far side of the Property and impacted unsaturated soil has been removed for off-site disposal, no source area for additional petroleum impact is located in the area of the impacted groundwater plume.

11.5.2 Qualitative Analysis

It is also our opinion that the qualitative fate and transport analysis presented below presents a reasonable assessment of solute fate and transport at the Site based on the current data.

Benzene and MTBE are present in groundwater beneath the Site. Both Benzene and MTBE are extremely soluble in groundwater, have low organic carbon coefficients (K_{oc}), and are resistant (under some circumstances) to biologic attenuation. Benzene and MTBE are generally at the leading edge of a solute plume and are the most distally distributed solutes. At the Former Rosemergy Store/Garage, Benzene is the only unleaded gasoline constituent that has been detected in off-Property monitoring wells at levels that exceed the RMSC SHS. MTBE, however, has traveled the furthest distance from the source area. MTBE has been detected in monitoring well MW-16 located southeast of the former source area at the distal edge of the plume.

Insufficient quarterly groundwater sample collection events have been completed in downgradient wells to assess contaminant trends. However, based on the age of the

release and the elimination of the leaking UST and unsaturated zone source area, the plume is expected to be stable or shrinking. Very low groundwater transport velocities that are based on aquifer testing and observations of open excavations below the water table that do not accumulate water after several hours support the current site conceptual model that the plume is expected to be stable or shrinking. As the current monitoring well array is sufficient to detect expansion of the plume before the plume reaches downgradient receptors, quantitative analysis of fate and transport is not required at this point in time.

11.5.3 Quantitative Analysis

As the current monitoring well array is sufficient to monitor the extent of impacted groundwater migration, the contaminant migration is expected to be very slow, the plume is expected to be at equilibrium or shrinking, and additional groundwater monitoring events are required to assess concentrations in the newly installed monitoring wells, no quantitative analysis is planned until two (2) additional quarterly groundwater sample collection events are collected.

It is our opinion that sufficient contaminant distribution and migration data has been collected to formulate a Remedial Action Plan for the site.

12.0 PLANNED ACTIVITIES

The following activities are currently planned:

- Screening of remedial alternatives and submission of a Remedial Action Plan.
- Quarterly Groundwater Monitoring and Reporting.
- A second indoor air sampling event during the winter of 2015.
- Construction activities have caused an increase in gasoline constituents in monitoring wells MW-3 and MW-5 that are located near off-property monitoring wells and the off-property residential supply wells. A groundwater extraction event will be proposed to USTIF to address the increase in contaminant concentrations and preclude additional off-property movement of the petroleum constituents.
- Quantitative fate and transport analysis, if required.

13.0 QUALIFICATIONS

Mr. David W. Swetland, P.G., Senior Geologist, was responsible for management of the project and technical oversight of the work completed by Converse. Mr. Swetland has twenty-five (25) years of experience supervising site characterizations and providing environmental consulting services throughout the Northeast.

Mr. David W. Swetland, P.G.,
Senior Geologist

AFFIX
P.G. SEAL
HERE



Architecture
Engineering
Environmental Services
37 North Washington St.
Hawley, PA 18428
Phone: 512 512 0302
Fax: 512 512 0302
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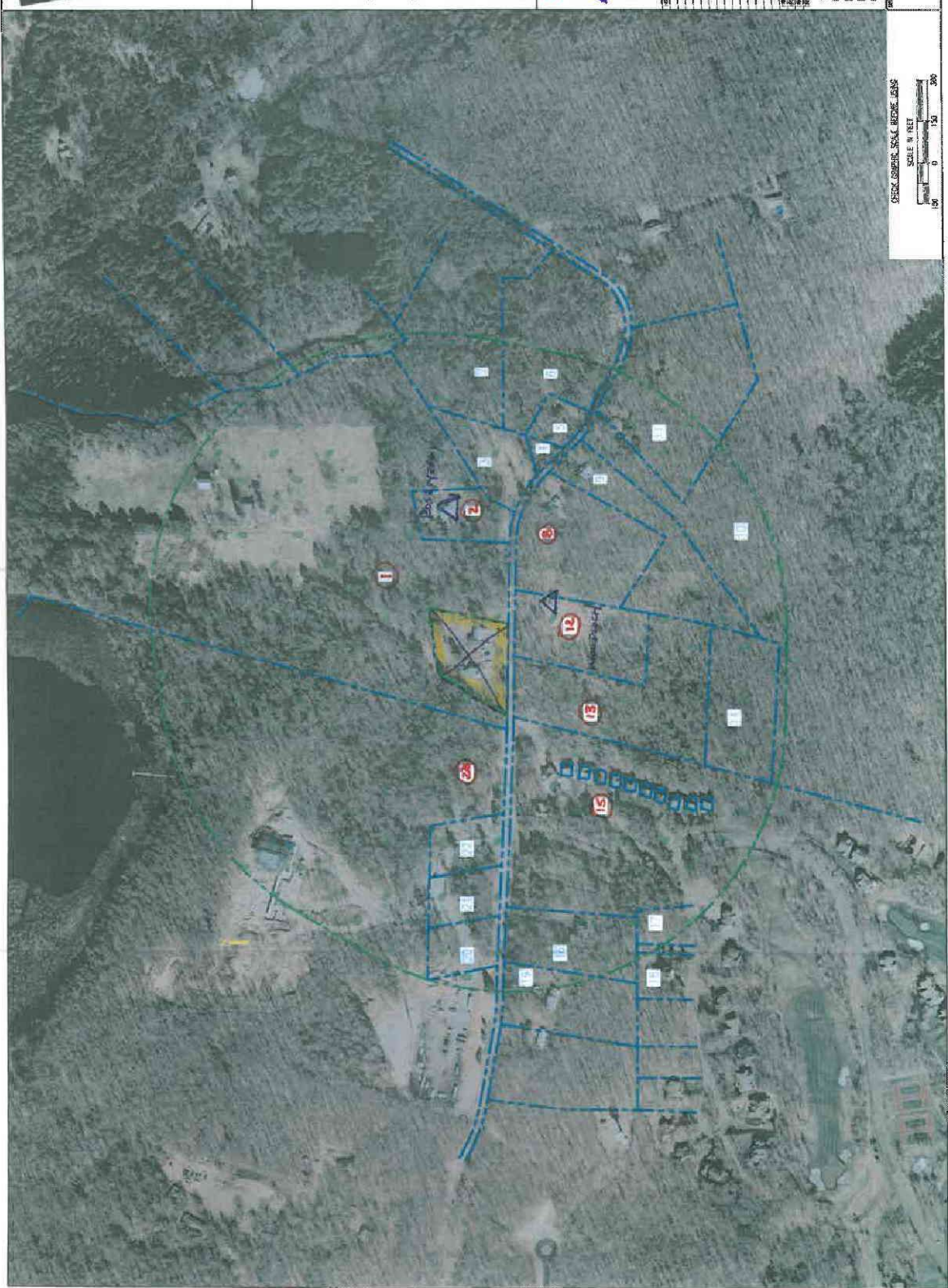
AREA MAP
1000' RADIUS
PENNSYLVANIA ROUTE 980
HAWLEY, LACKAWANNA TOWNSHIP
18428

Subsidence
Pattern
sorry
was large

NO.	TYPE	REMARKS
1	WELL	1000' RADIUS
2	WELL	1000' RADIUS
3	WELL	1000' RADIUS
4	WELL	1000' RADIUS
5	WELL	1000' RADIUS
6	WELL	1000' RADIUS
7	WELL	1000' RADIUS
8	WELL	1000' RADIUS
9	WELL	1000' RADIUS
10	WELL	1000' RADIUS
11	WELL	1000' RADIUS
12	WELL	1000' RADIUS
13	WELL	1000' RADIUS
14	WELL	1000' RADIUS
15	WELL	1000' RADIUS
16	WELL	1000' RADIUS
17	WELL	1000' RADIUS
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19	WELL	1000' RADIUS
20	WELL	1000' RADIUS
21	WELL	1000' RADIUS
22	WELL	1000' RADIUS
23	WELL	1000' RADIUS
24	WELL	1000' RADIUS
25	WELL	1000' RADIUS
26	WELL	1000' RADIUS
27	WELL	1000' RADIUS
28	WELL	1000' RADIUS
29	WELL	1000' RADIUS
30	WELL	1000' RADIUS

1000 FOOT
GROUNDWATER
BUFFER FROM
ROSEMEYER'S
GALLERY

FIG-8



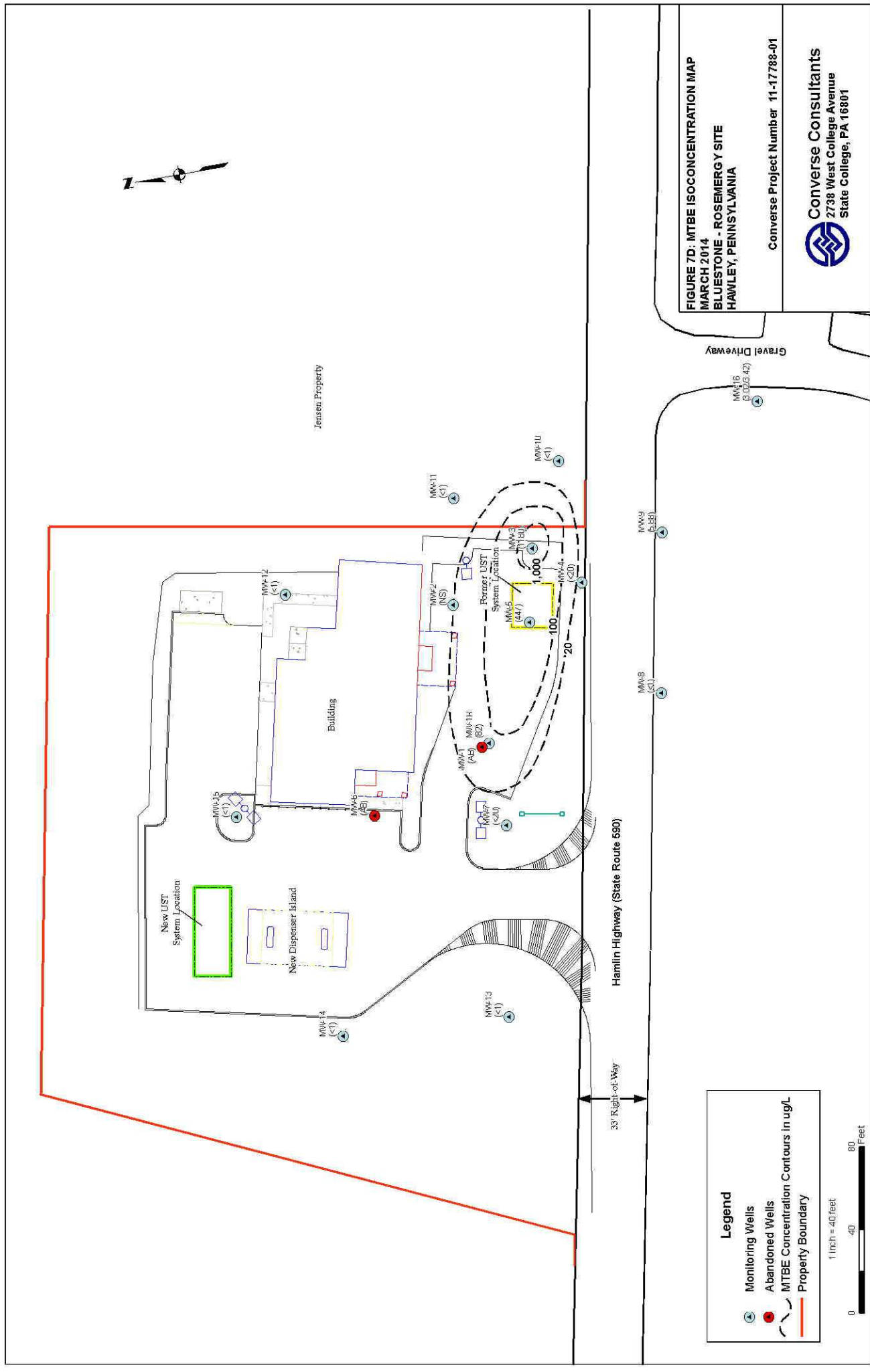


FIGURE 7D: MTBE ISOCONCENTRATION MAP
MARCH 2014
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01

Converse Consultants
2738 West College Avenue
State College, PA 16801

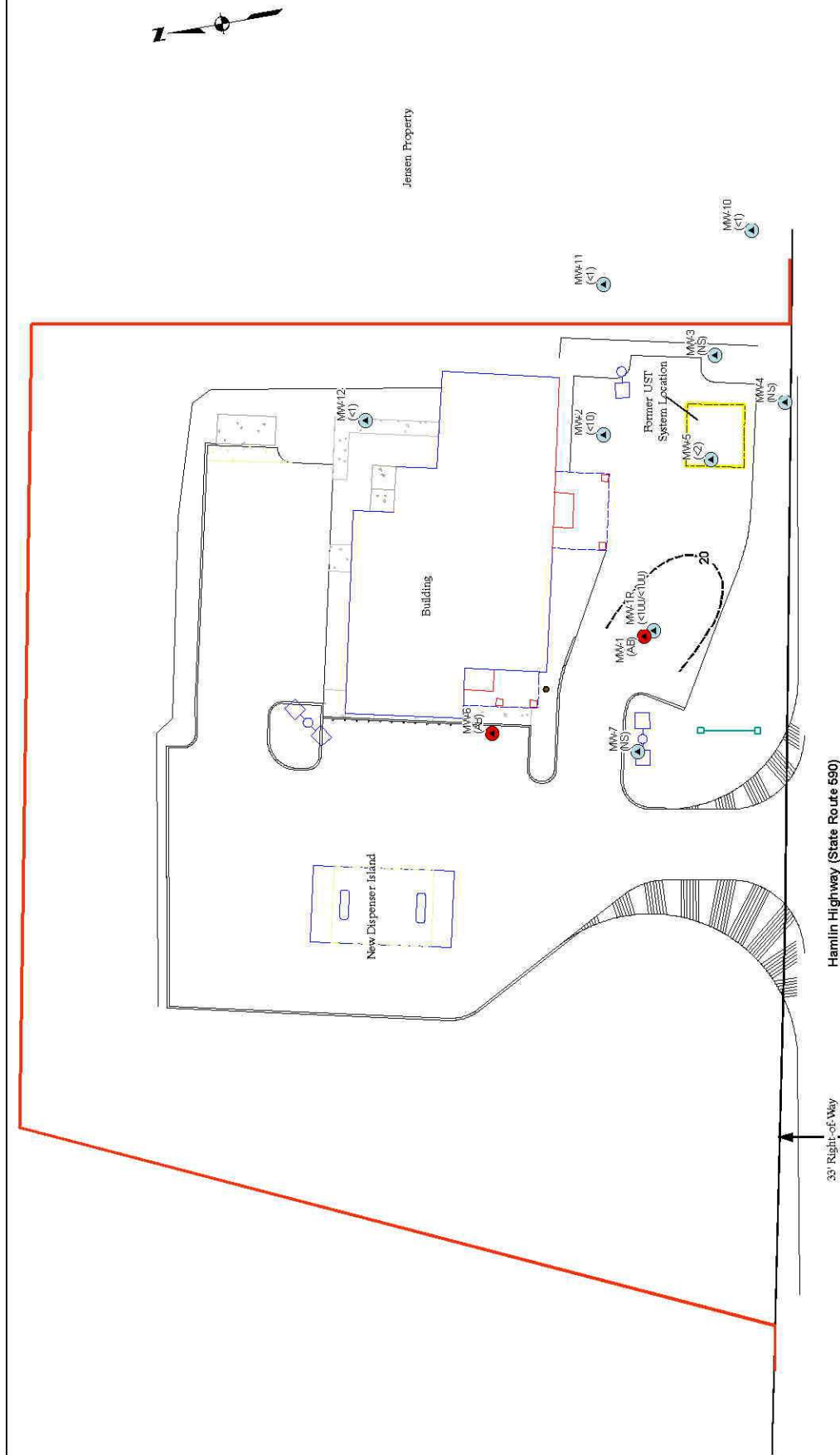


FIGURE 7C: MTBE ISOCONCENTRATION MAP
MARCH 2014
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01

Converse Consultants
 2738 West College Avenue
 State College, PA 16801
 (804) 234-3223

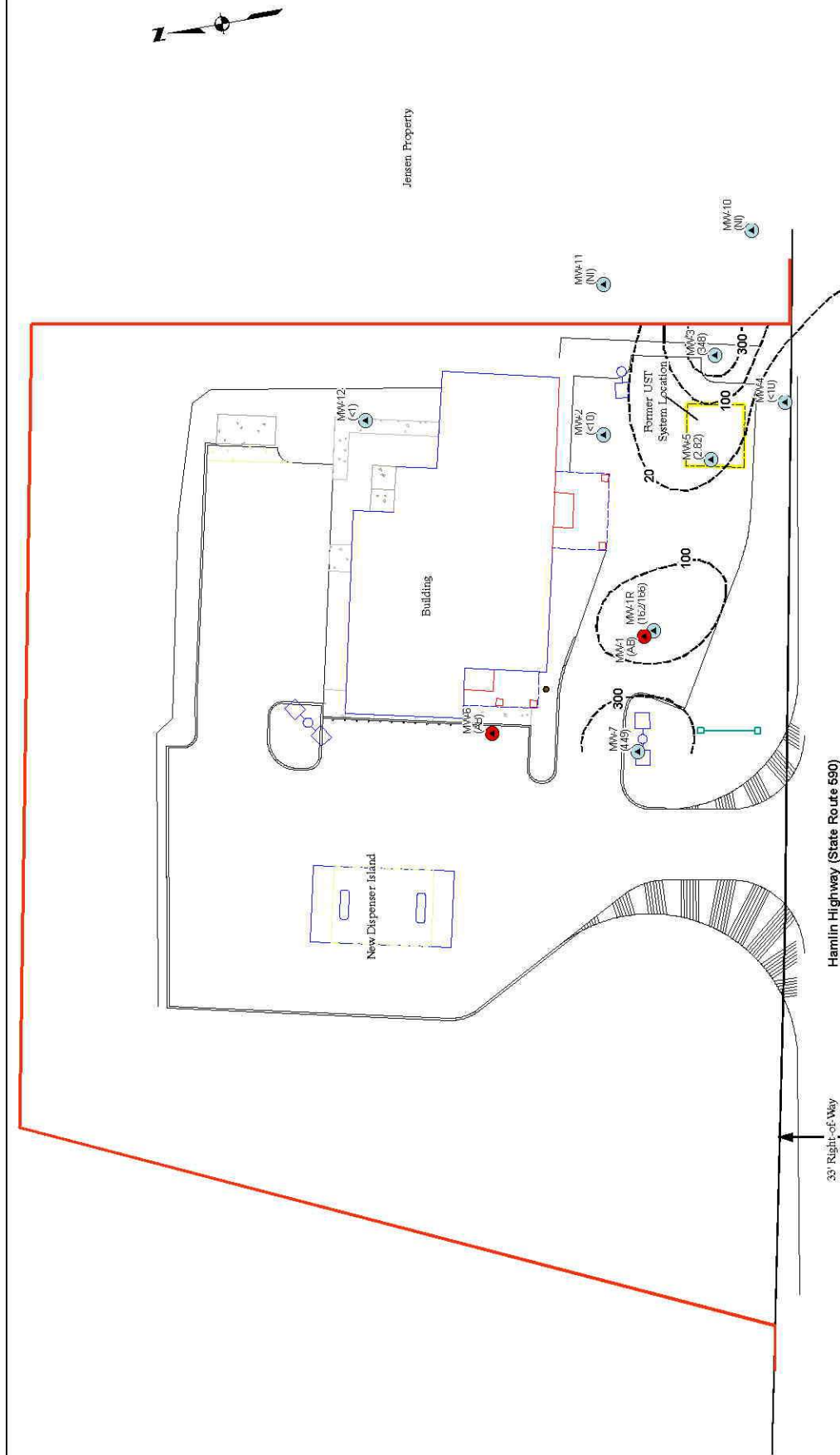


FIGURE 7B: MTBE ISOCNTRATION MAP
DECEMBER 2013
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01

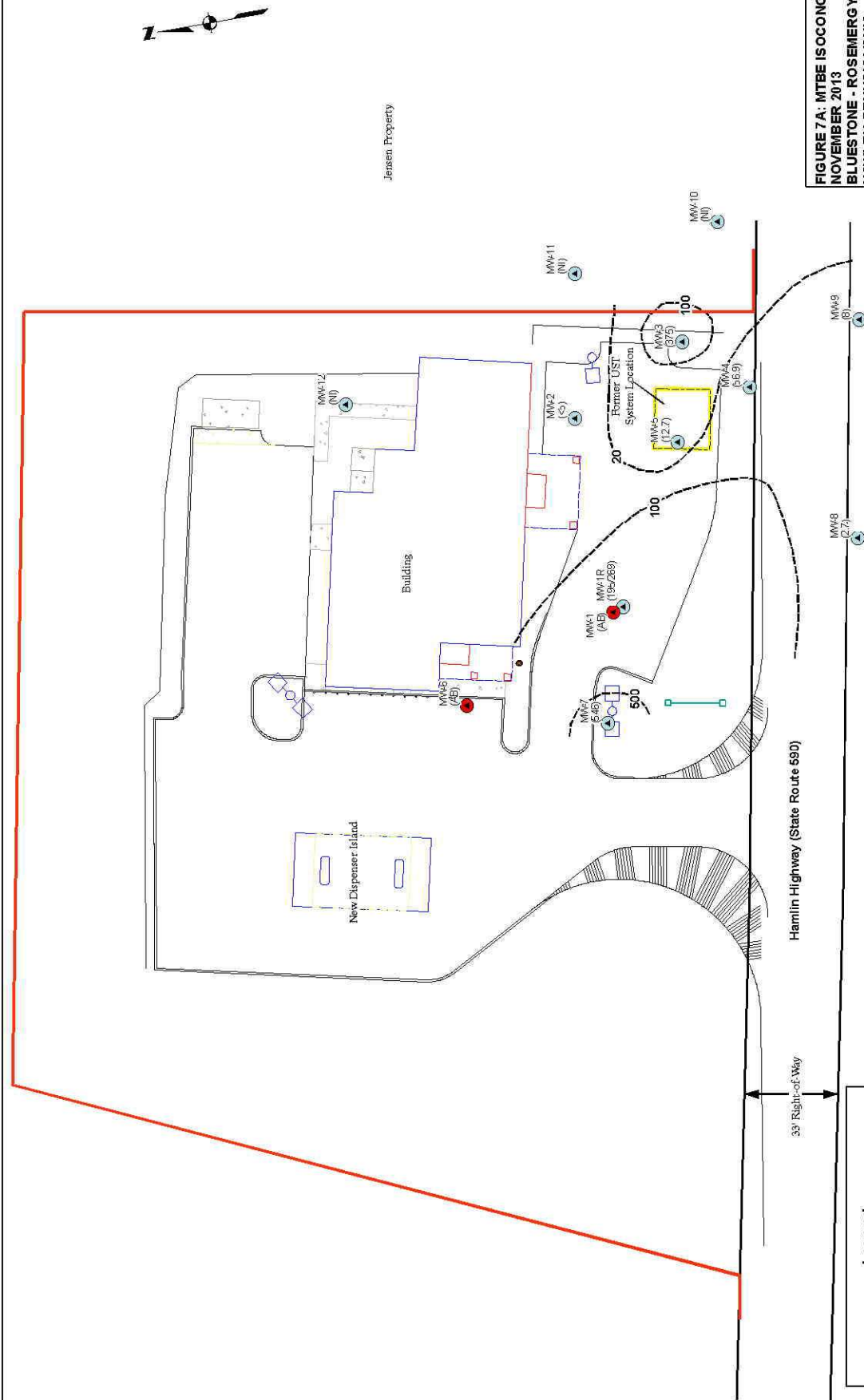


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Legend

- Monitoring Wells
- Abandoned Wells
- MTBE Concentration Contours in ug/L
- Property Boundary





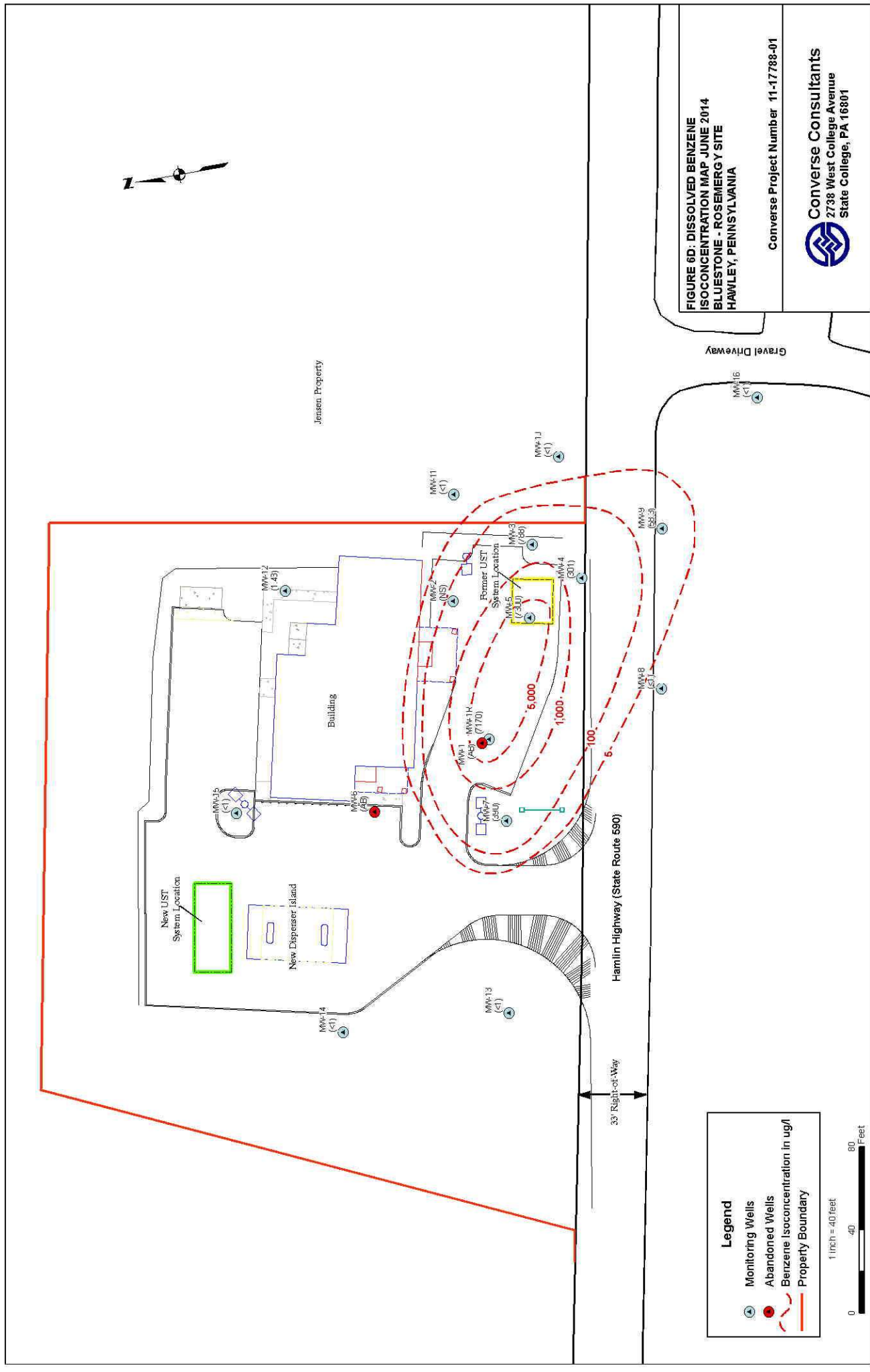


FIGURE 6D: DISSOLVED BENZENE
 ISOCONCENTRATION MAP - JUNE 2014
 BLUESTONE - ROSEMERGY SITE
 HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01

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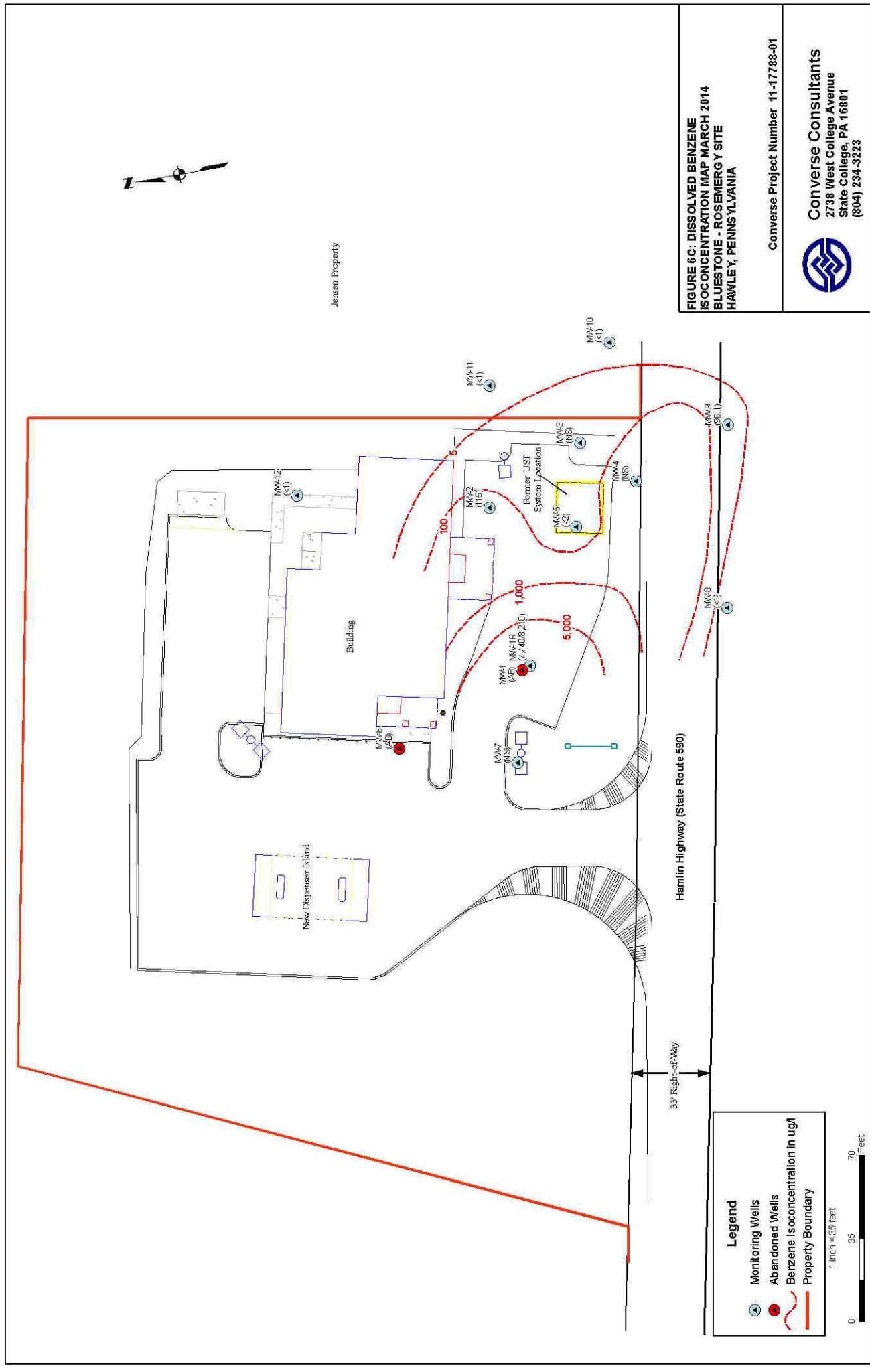
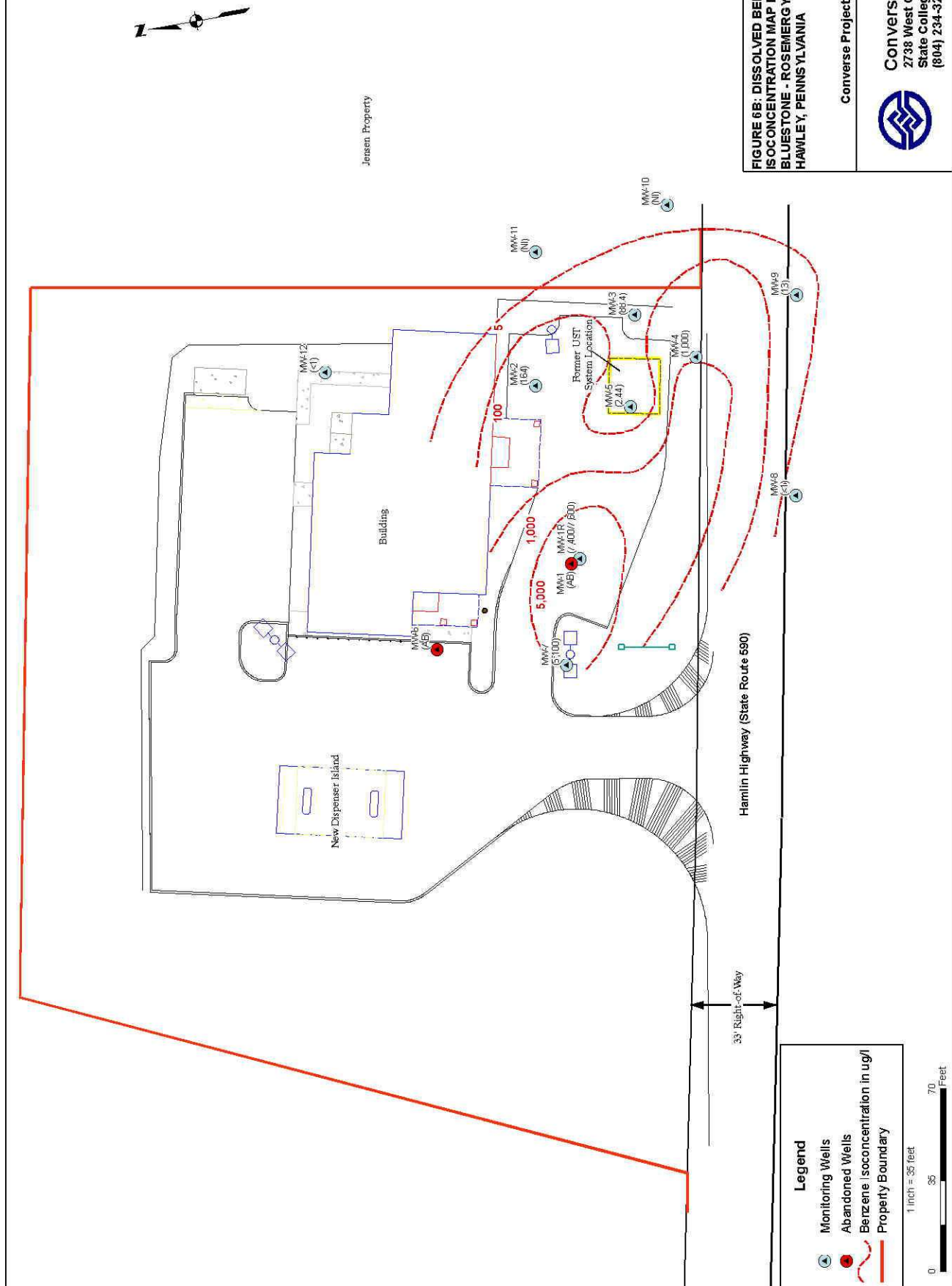


FIGURE 6C: DISSOLVED BENZENE
ISOCONCENTRATION MAP MARCH 2014
BLUESTONE - ROSEMERY SITE
HAWLEY, PENNSYLVANIA



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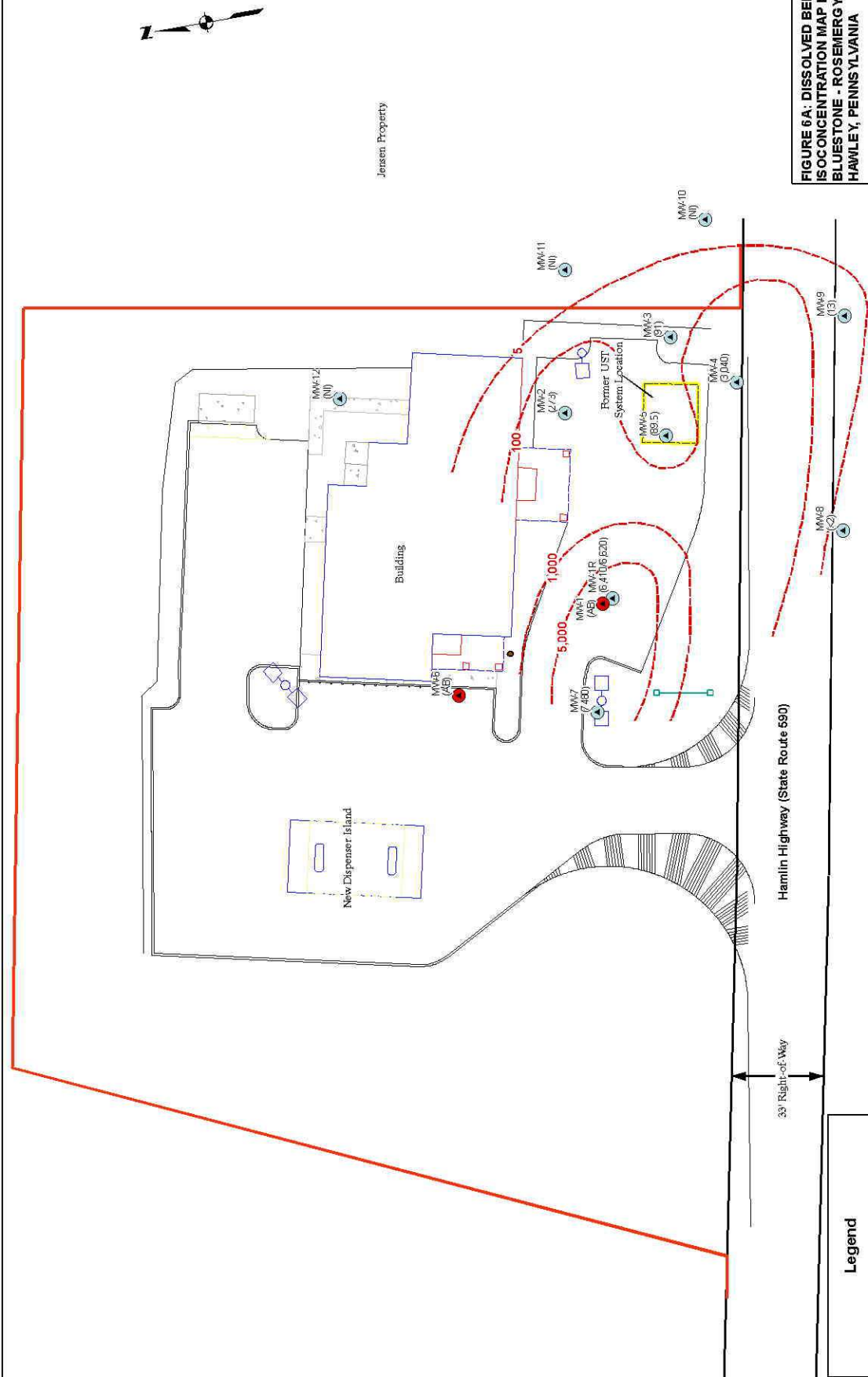


**FIGURE 6B: DISSOLVED BENZENE
ISOCONCENTRATION MAP DECEMBER 2013
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA**

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Legend


- Monitoring Wells
- Abandoned Wells
- Benzene Isoconcentration in ug/l
- Property Boundary

1 inch = 35 feet

0 35 70 Feet

FIGURE 6A: DISSOLVED BENZENE ISOCENTRATION MAP NOVEMBER 2013
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

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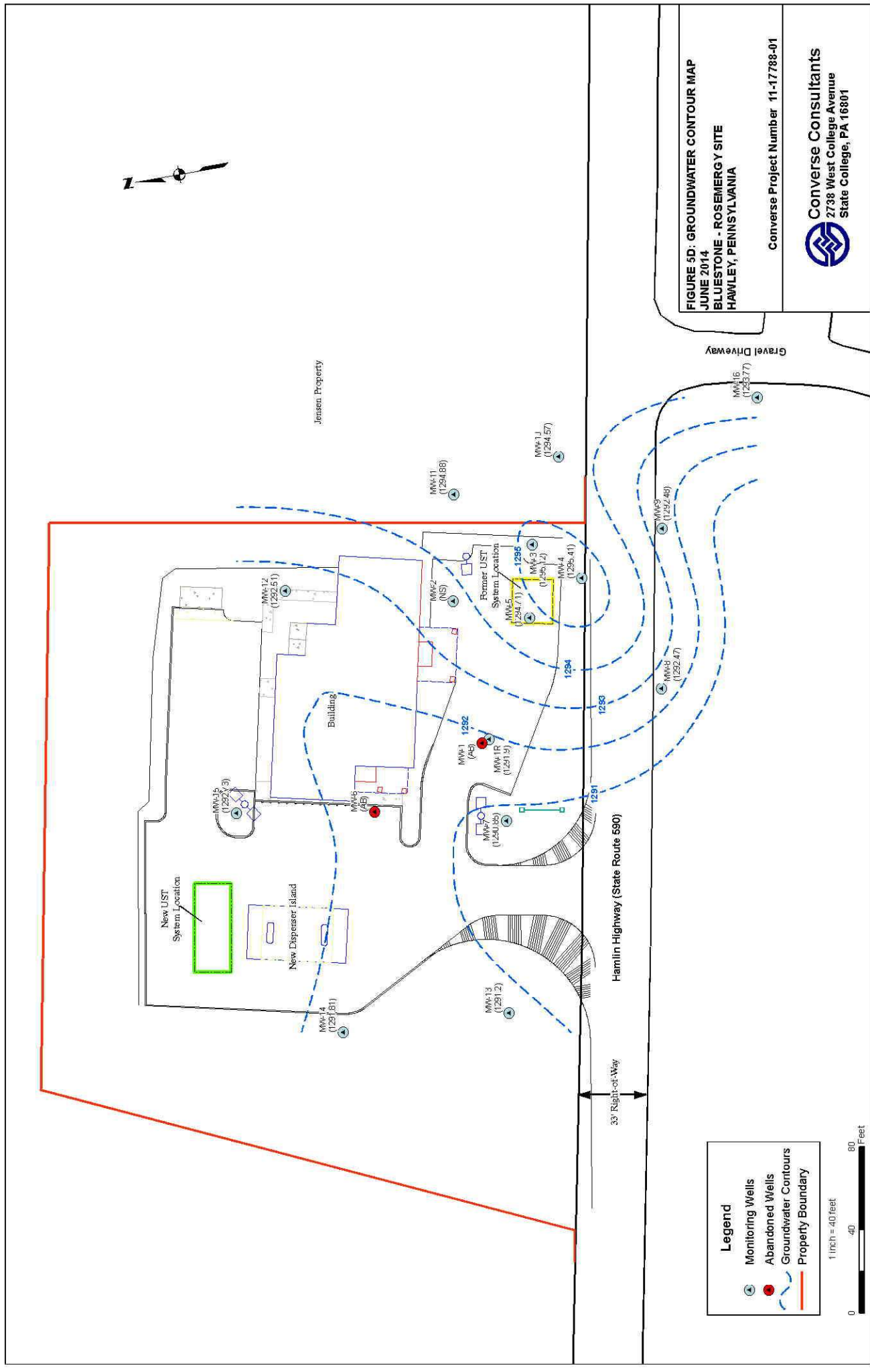


FIGURE 5D: GROUNDWATER CONTOUR MAP
JUNE 2014
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01


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State College, PA 16801

Legend

-  Monitoring Wells
-  Abandoned Wells
-  Groundwater Contours
-  Property Boundary



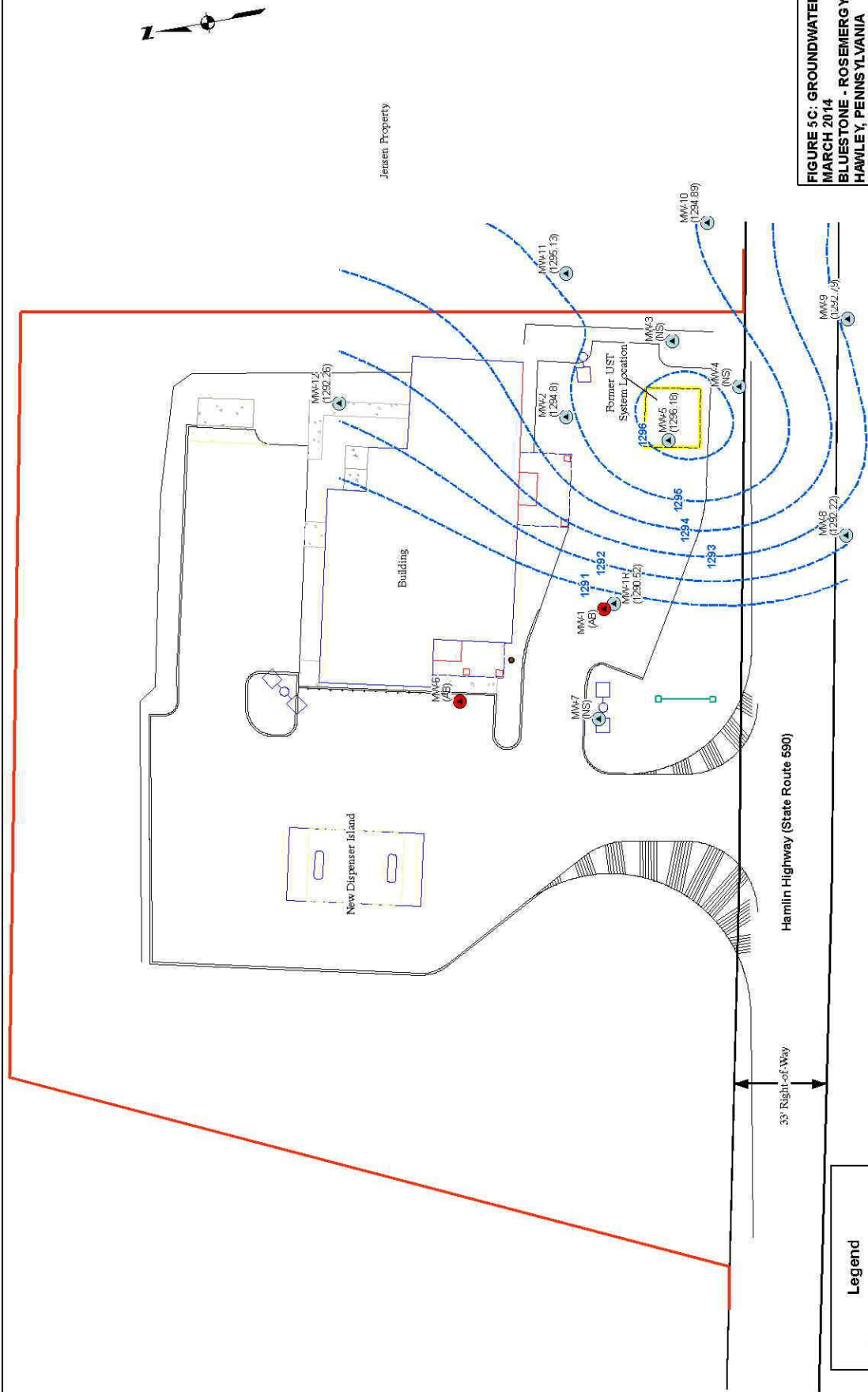


FIGURE 5C: GROUNDWATER CONTOUR MAP
MARCH 2014
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01



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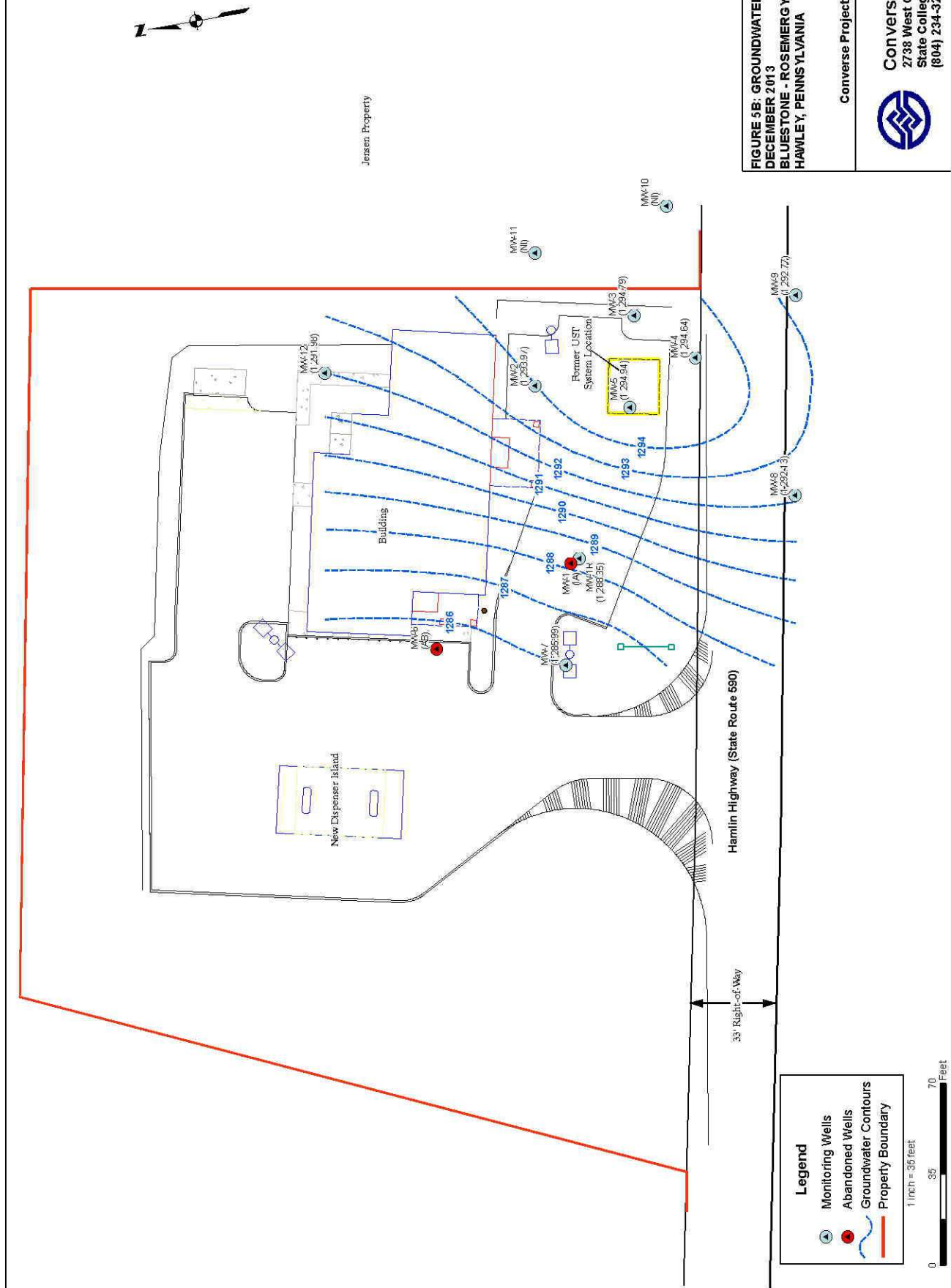
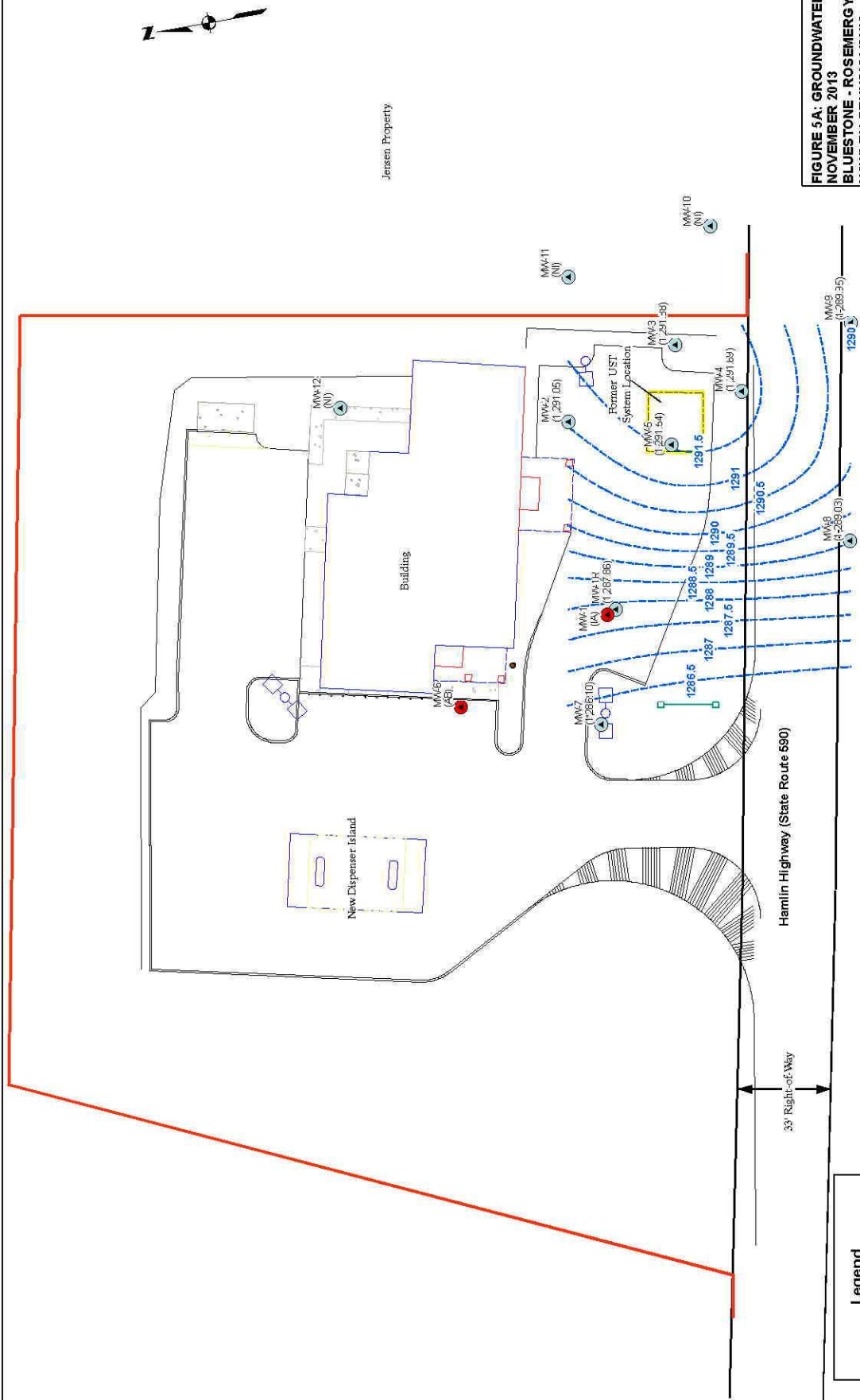


FIGURE 5B: GROUNDWATER CONTOUR MAP
DECEMBER 2013
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01

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 State College, PA 16801
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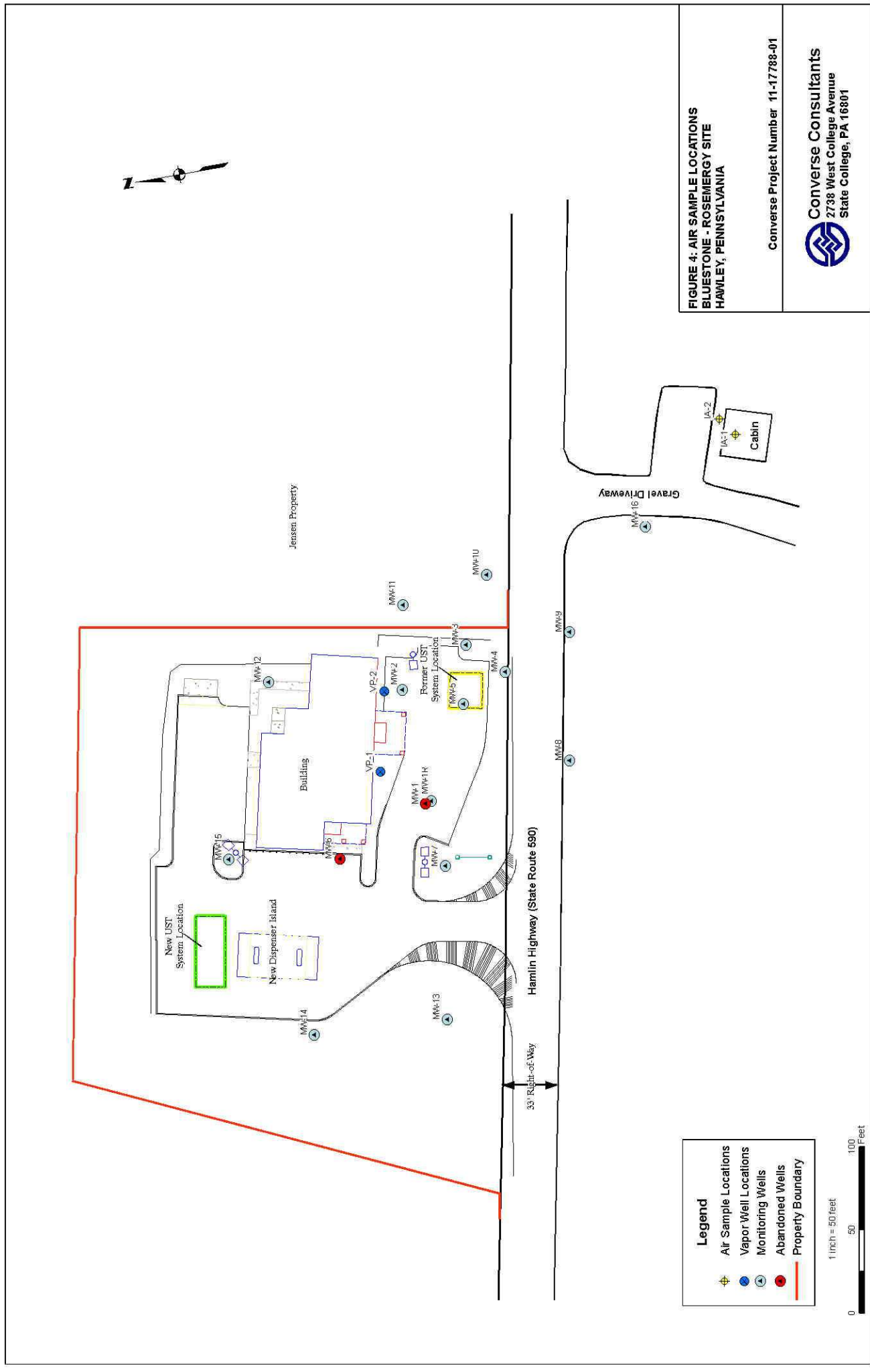


**FIGURE 5A: GROUNDWATER CONTOUR MAP
NOVEMBER 2013
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA**

Converse Project Number 11-17788-01



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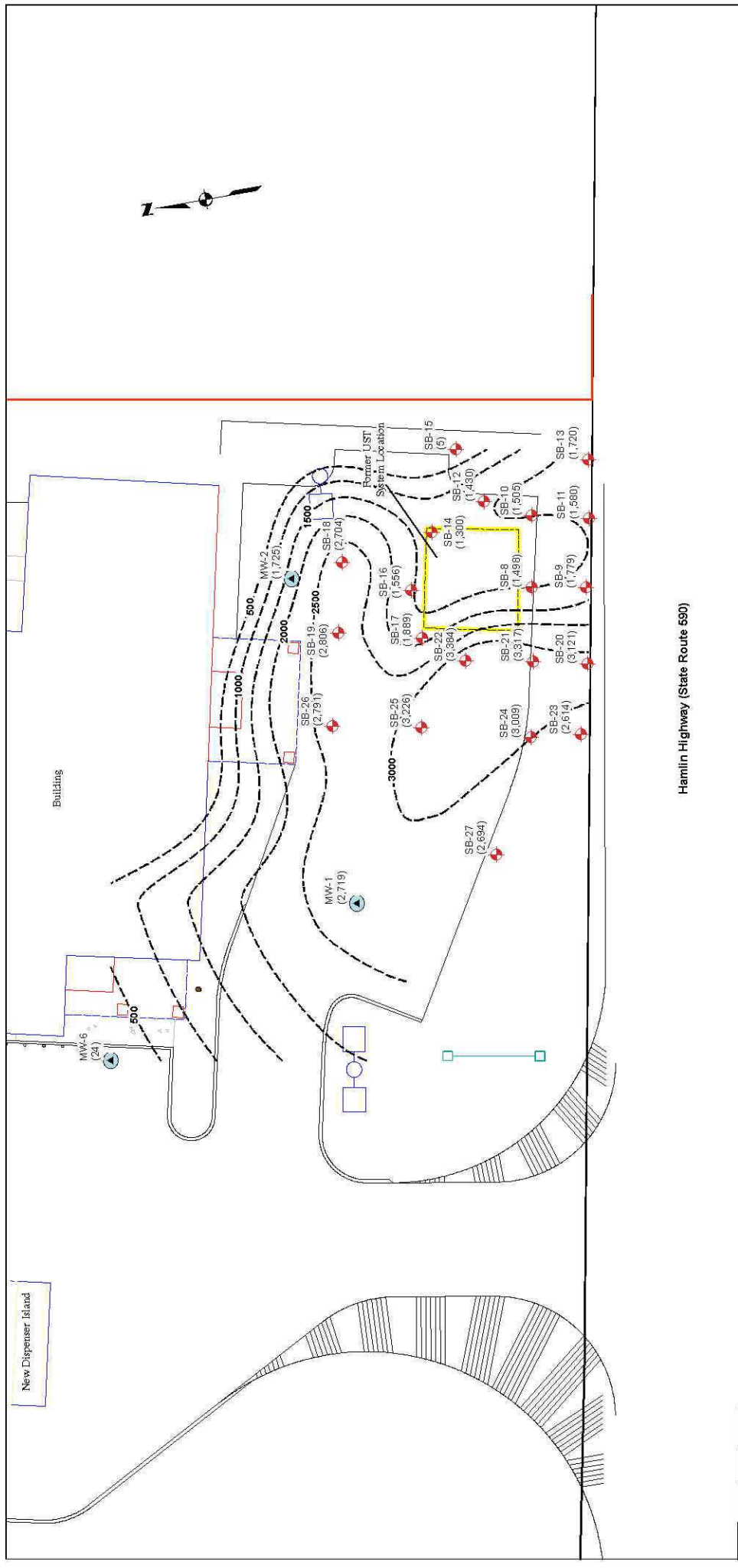


FIGURE 3: MAXIMUM PID READING
ISOCONCENTRATION MAP
FORMER ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-02



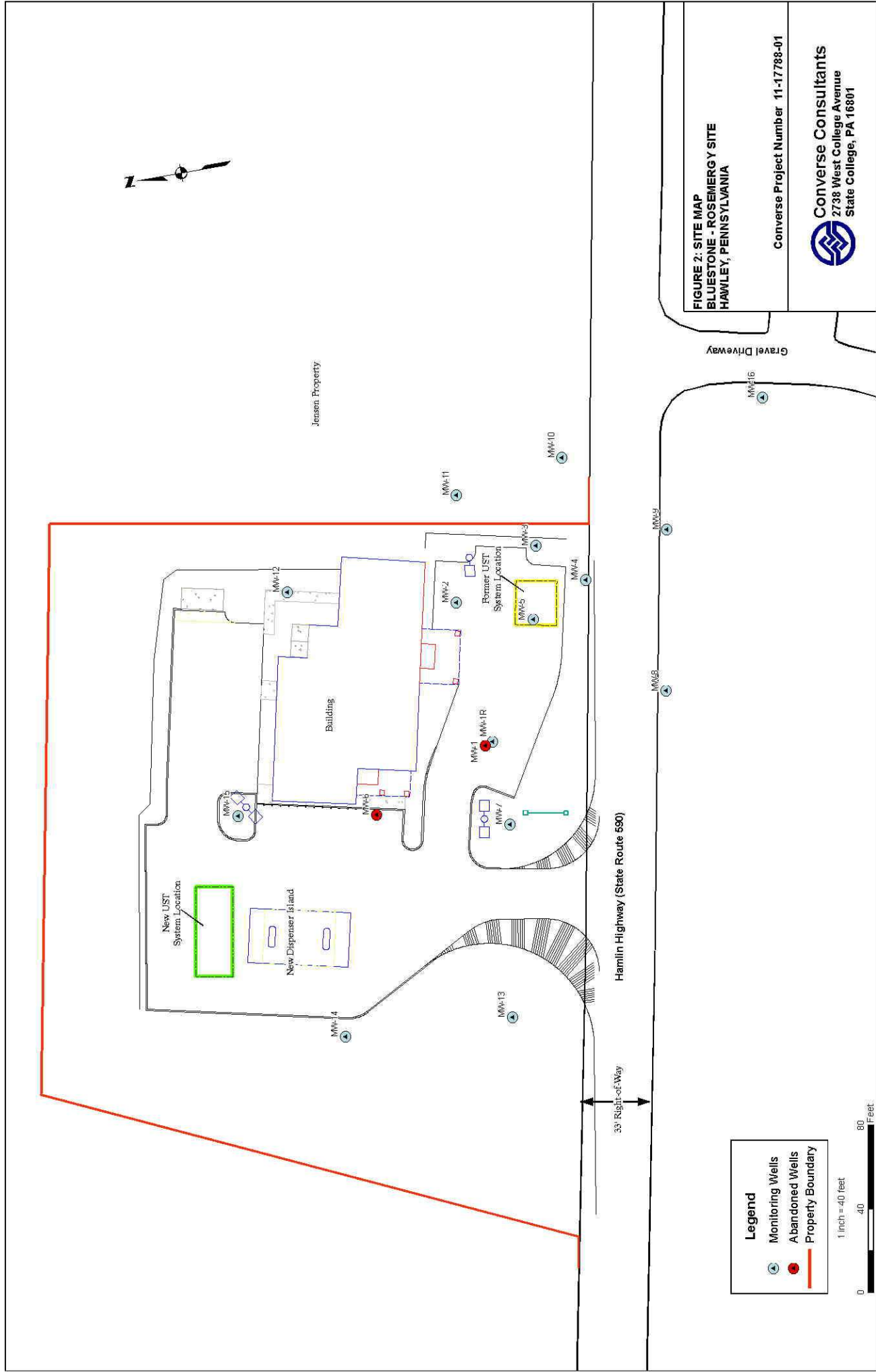
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Legend

- Monitoring Wells
- Soil Borings
- Concentration Contours
- Property Boundary



Hamlin Highway (State Route 590)



SOURCE: USGS Narrowsburg, NY - PA
7.5' topographic quadrangle map. 1968.
Photorevised 1983

SCALE:
1 inch = APPROX. 2,000 feet

0 1,000 2,000 4,000 feet



SITE LOCATION

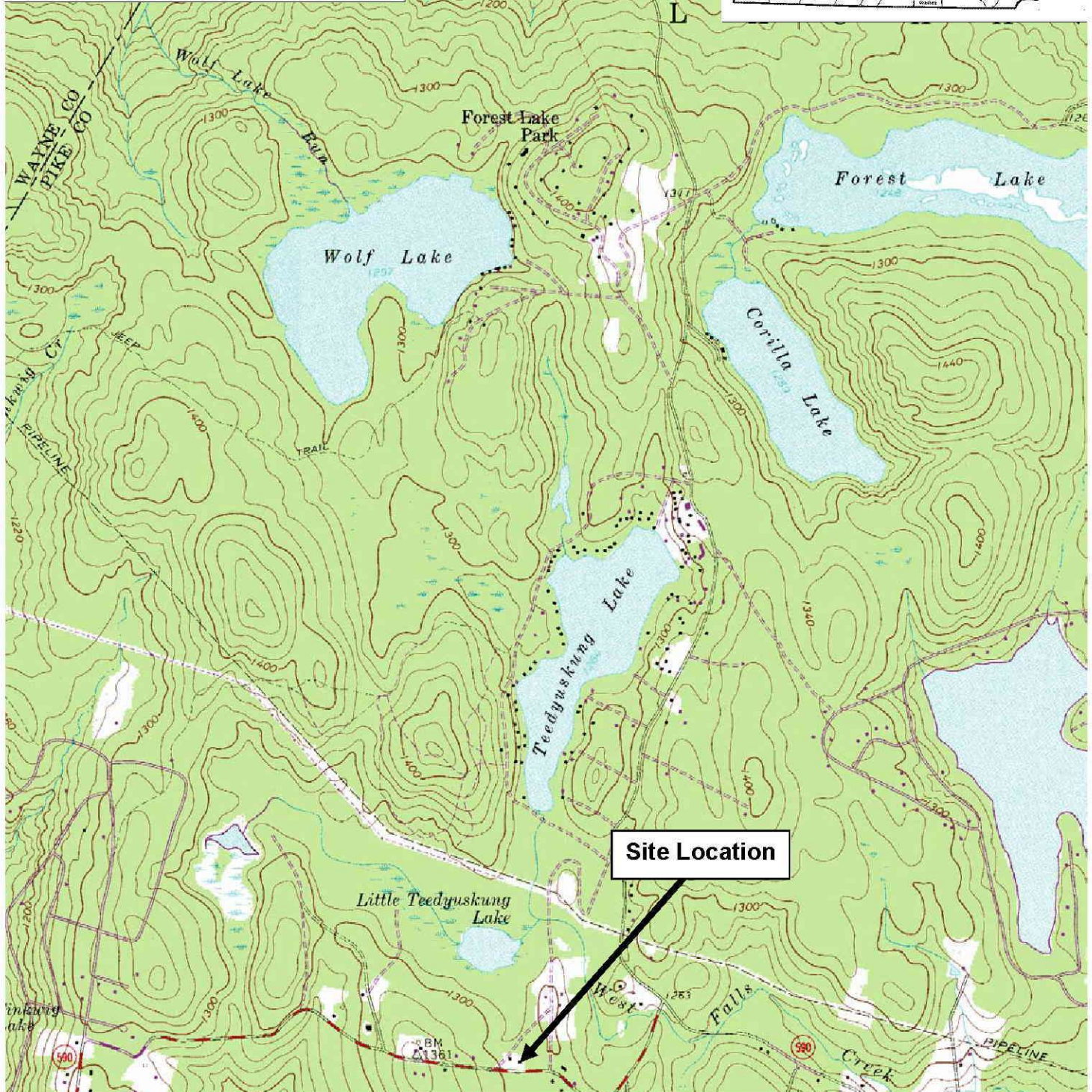
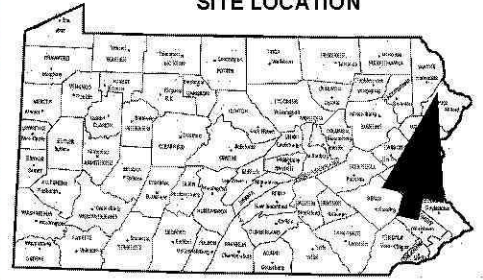


FIGURE 1: LOCATION MAP

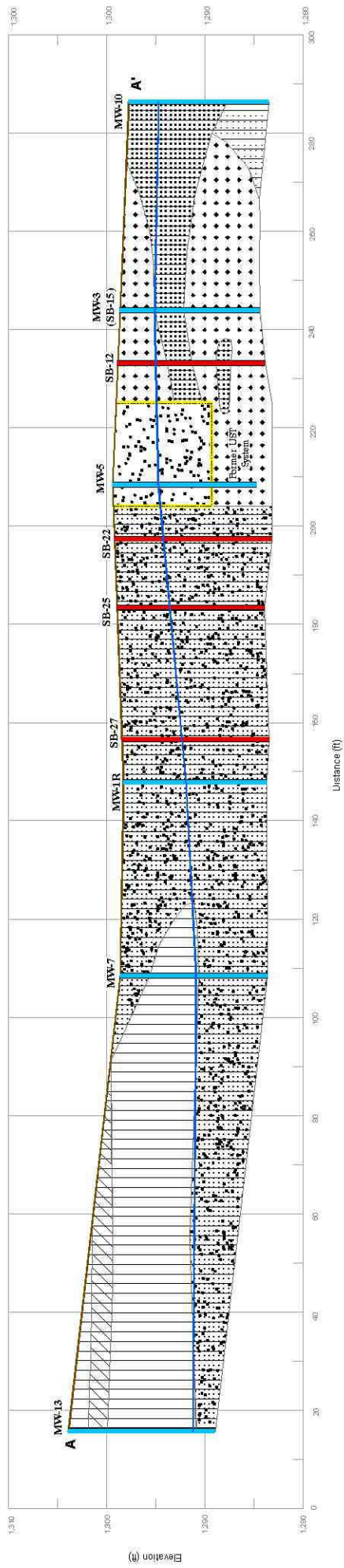
ROSEMERGY SITE
HAMLIN HIGHWAY (PA 590)
HAWLEY, PIKE COUNTY, PENNSYLVANIA

Converse Project Number 11-17829-01

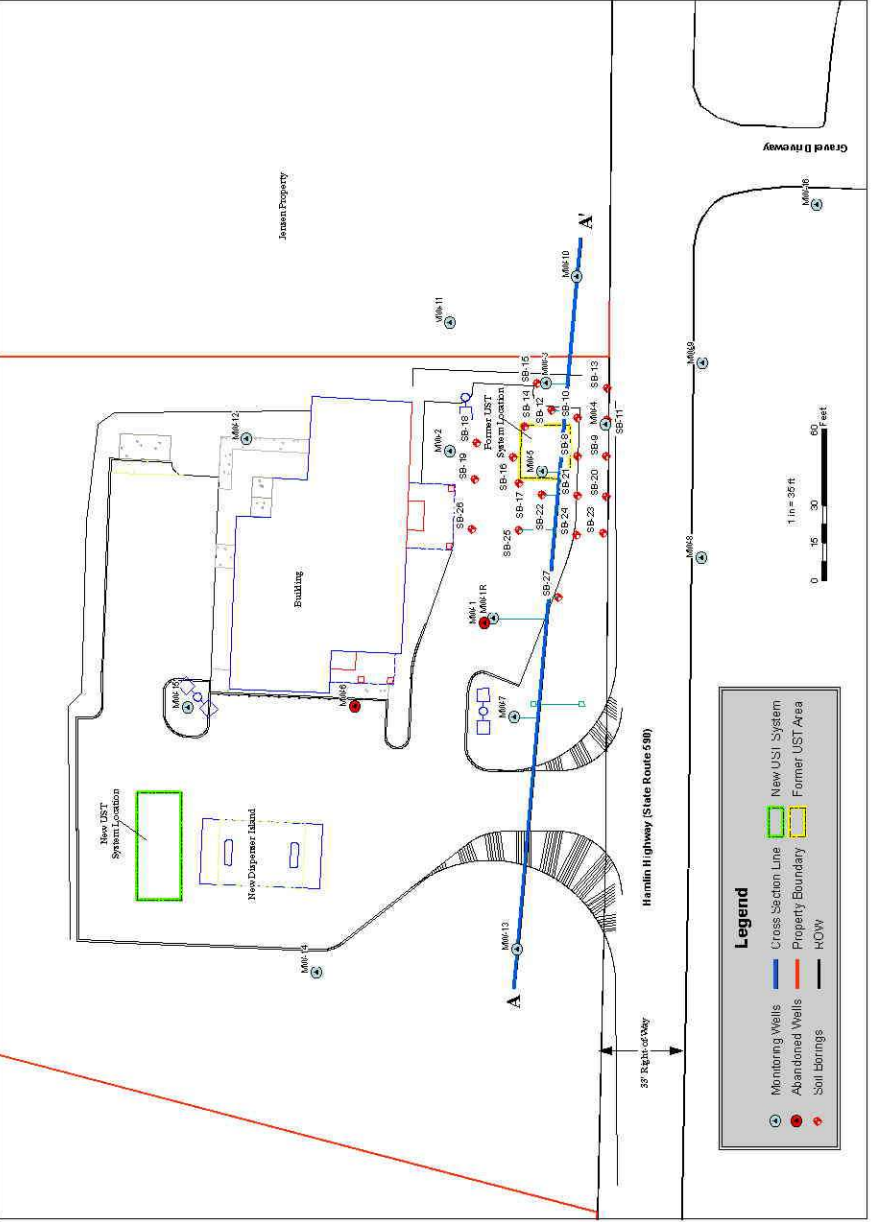
Revised 01/09/13



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State College, PA 16801
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Scale As Shown



CROSS SECTION A-A'

FORMER ROSEMERGY'S CONVENIENCE STORE
Hamlin Highway
Hawley, Pennsylvania

Plate 1



Converse Consultants
Over 60 Years of Geotechnical Engineering, Environmental & Groundwater Science,
Inspection & Testing Services

TABLE 5 INDOOR AIR ASSESSMENT SAMPLE RESULTS FORMER ROSEMERGY'S CONVENIENCE STORE HAWLEY, PA 11-17788-02						
PARAMETER	RMSC _{IA}	NRMSC _{IA}	RL	IA-1		IA-2
				6/18/14	Winter 2015	6/18/14
BENZENE	0.0027	0.01	0.00011	0.0011		0.00088
CUMENE (Isopropylbenzene)	0.540	1.1	0.00015	<0.00065		<0.00065
ETHYLBENZENE	0.019	0.073	0.012	0.0024		0.00051
METHYL TERT-BUTYL ETHER	0.0810	0.31	0.00013	0.007		<0.0013
NAPHTHALENE	0.0042	0.0088	0.00018	<0.00018		<0.00018
TOLUENE	0.56	1.2	0.0038	0.017		0.0036
1,2,4-TRIMETHYLBENZENE	0.0083	0.017	0.0049	0.0015		0.00042
1,3,5-TRIMETHYLBENZENE	0.0083	0.017	0.00017	0.0005		<0.00017
m & p-XYLENE	0.14	0.3	0.0087	0.008		0.0018
o-XYLENE	0.14	0.3	0.0043	0.0022		0.00054

Concentrations reported in milligrams per cubic meter (mg/m³).

RMSC_{IA}: Residential Medium Specific Concentration for Indoor Air.

NRMSC_{IA}: Non-Residential Medium Specific Concentration for Indoor Air.

RL: Reporting Limit.

IA-1 Collected inside residence

IA-2 Collected outside residence (ambient air)

TABLE 4
SOIL GAS SAMPLE RESULTS
FORMER ROSEMERGY'S CONVENIENCE STORE
HAWLEY, PA
11-17788-02

PARAMETER	RMSC _{SG}	NRMSC _{SG}	RL	Date	SV-1	SV-2	SV-3 (SV-1 dup)	VP-1	VP-2	VP-3 (VP-1 dup)
BENZENE	0.27	1.1	0.64		0.00042	0.00035	0.00038	<0.00032	0.0012	<0.0016
CUMENE (Isopropylbenzene)	54	110	2		<0.0018	<0.0018	<0.0018	0.003	<0.0018	<0.0092
ETHYLBENZENE	1.9	7.3	0.87		<0.00043	<0.00043	<0.00043	<0.00043	<0.00043	<0.0022
METHYL TERT-BUTYL ETHER	8.1	31	3.6		<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.0018
NAPHTHALENE	0.42	0.88	10		<0.00052	<0.00052	<0.00052	0.004	<0.00052	<0.0026
TOLUENE	56	120	1.1		NA	NA	NA	0.15	0.37	1.2
1,2,4-TRIMETHYLBENZENE	0.83	1.7	2		<0.00049	0.00065	<0.00049	<0.00049	<0.00049	<0.0025
1,3,5-TRIMETHYLBENZENE	0.83	1.7	2		<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.0025
m & p-XYLENE	14	30	2.2		0.0011	0.0013	0.0012	0.0048	0.0047	0.022
o-XYLENE	14	30	2.2		0.00047	0.0006	0.00053	0.0015	0.0015	0.0071

Compounds identified at concentrations greater than quantitation limit.

Concentrations reported in milligrams per cubic meter (mg/m³)

RMSC_{SG}: Residential Medium Specific Concentration.

NRMSC_{SG}: Non-Residential Medium Specific Concentration.

RL: Reporting Limit.

NPL: No published Act II standard value.

NA: Not Analyzed.

TABLE 3
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-02

Sample ID (Depth)	Statewide Health Standards	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
	Residential							
Sampling Date	Groundwater	5/8/12	6/7/12	11/8/13	12/11/13	2/4/14	3/7/14	6/12/14
Matrix	Used Aquifers	Water	Water	Water	Water	Water	Water	Water
Units	<2,500 TDS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS								
1,3,5-Trimethylbenzene	13	1,030	736	310/646	643/625	NS	618/662	365
1,2,4-Trimethylbenzene	15	2,310	2,580	978/1,020	2,100/2,050	NS	1,900/2,100	1,300
Benzene	5	3,930	5,680	6,410/6,620	7,400/7,610	NS	7,740/8,210	7,170
Toluene	1,000	13,600	10,900	15,700/16,100	9,960/10,000	NS	12,900/14,500	10,200
Ethylbenzene	700	2,450	2,720	1,540/1,580	2,380/2,350	NS	2,710/2,760	1,770
Xylenes (total)	10,000	11,800	12,200	8,980/9,060	5,550/5,390	NS	14,000/14,400	8640
Isopropylbenzene	840	1,210	395	111/405	387/386	NS	336/364	213
Methyl tert-butyl ether	20	68.6	<50	195/269	162/166	NS	<100/<100	82
Naphthalene	100	881	276	265/693	424/450	NS	194/209	254
Sample ID (Depth)	Statewide Health Standards	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
	Residential							
Sampling Date	Groundwater	5/8/12	6/17/12	11/8/13	12/11/13	2/4/14	3/7/14	6/12/14
Matrix	Used Aquifers	Water	Water	Water	Water	Water	Water	Water
Units	<2,500 TDS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS								
1,3,5-Trimethylbenzene	13	635	687	406	401	NS	255	NS
1,2,4-Trimethylbenzene	15	1,820	1,940	1,200	1,110	NS	612	NS
Benzene	5	791	272	273	164	NS	115	NS
Toluene	1,000	1,520	1,460	958	514	NS	298	NS
Ethylbenzene	700	765	752	828	634	NS	391	NS
Xylenes (total)	10,000	4,060	3,470	1,380	875	NS	586	NS
Isopropylbenzene	840	1,020	246	3,227	255	NS	153	NS
Methyl tert-butyl ether	20	32.6	<20	<50	<10	NS	<10	NS
Naphthalene	100	898	145	240	265	NS	160	NS

NS - Not Sampled
All concentrations in micrograms per liter (ug/L)

TABLE 3 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-02

Sample ID (Depth)	Statewide Health Standards		MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
	Groundwater	Used Aquifers	5/8/12	6/17/12	11/8/13	12/11/13	2/4/14	3/7/14	6/12/14	MW-3	
	Water	Water	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	Water	
	Matrix	Units								Water	
VOLATILE ORGANIC COMPOUNDS											
1,3,5-Trimethylbenzene	13		<10	<10	<5	<2	NS	NS	<10		
1,2,4-Trimethylbenzene	15		<10	<10	5.15	<2	NS	NS	38.5	6/12/14	
Benzene	5		273	236	91	88.4	NS	NS	788	Water	
Toluene	1,000		86.4	<10	<5	<2	NS	NS	62.8	Water	
Ethylbenzene	700		12.2	<10	<5	3.24	NS	NS	56.8	(ug/L)	
Xylenes (total)	10,000		49.2	<20	<10	7.24	NS	NS	122		
Isopropylbenzene	840		<10	11	12.6	6.88	NS	NS	44.4		
Methyl tert-butyl ether	20		768	684	375	348	NS	NS	1,180		
Naphthalene	100		<10	<10	<5	2.5	NS	NS	<10		
Sample ID (Depth)	Statewide Health Standards		MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	
	Groundwater	Used Aquifers	5/8/12	6/17/12	11/8/13	12/11/13	2/4/14	3/7/14	6/12/14	MW-4	
	Water	Water	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	Water	
	Matrix	Units								Water	
VOLATILE ORGANIC COMPOUNDS											
1,3,5-Trimethylbenzene	13		594	590	736	703	NS	NS	358		
1,2,4-Trimethylbenzene	15		1,400	2,210	2,000	2,750	NS	NS	1,250	6/12/14	
Benzene	5		4,120	2,460	3,040	1,000	NS	NS	301	Water	
Toluene	1,000		19,700	9,210	2,860	5,550	NS	NS	2,060	Water	
Ethylbenzene	700		1,420	2,000	2,290	2,250	NS	NS	1,050	(ug/L)	
Xylenes (total)	10,000		9,440	10,400	5,540	10,900	NS	NS	4,720		
Isopropylbenzene	840		728	228	433	387	NS	NS	178		
Methyl tert-butyl ether	20		14.8	<50	56.9	<10	NS	NS	<20		
Naphthalene	100		1,090	244	604	404	NS	NS	205		

NS - Not Sampled
All concentrations in micrograms per liter (ug/L)

TABLE 3 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-02

Sample ID (Depth)	Statewide Health Standards	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
Sampling Date	Groundwater	5/8/12	6/17/12	11/8/13	12/11/13	2/4/14	3/7/14
Matrix	Used Aquifers	Water	Water	Water	Water	Water	Water
Units	<2,500 TDS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS							
1,3,5-Trimethylbenzene	13	155	14.7	<10	<2	NS	686
1,2,4-Trimethylbenzene	15	427	36.2	13.6	<2	NS	2,270
Benzene	5	14.4	4.3	89.5	2.44	NS	7,300
Toluene	1,000	116	14.1	<10	<2	NS	8,650
Ethylbenzene	700	107	14.6	80.7	<2	NS	2,590
Xylenes (total)	10,000	403	38.7	<20	<4	NS	12,800
Isopropylbenzene	840	51.8	<10	25.3	<2	NS	322
Methyl tert-butyl ether	20	<5	<10	12.7	2.82	NS	447
Naphthalene	100	94.4	<10	<10	<2	NS	502

Sample ID (Depth)	Statewide Health Standards	MW-6	MW-6	MW-6	MW-6
Sampling Date	Groundwater	5/8/12	6/17/12	3/7/14	
Matrix	Used Aquifers	Water	Water	Water	
Units	<2,500 TDS	(ug/L)	(ug/L)	(ug/L)	
VOLATILE ORGANIC COMPOUNDS					
1,3,5-Trimethylbenzene	13	<1	<1	AB	
1,2,4-Trimethylbenzene	15	<1	<1	AB	
Benzene	5	<1	1.15	AB	
Toluene	1,000	<1	2.55	AB	
Ethylbenzene	700	<1	<1	AB	
Xylenes (total)	10,000	<2	<2	AB	
Isopropylbenzene	840	<1	<1	AB	
Methyl tert-butyl ether	20	<1	<1	AB	
Naphthalene	100	<1	<1	AB	

NS - Not Sampled
All concentrations in micrograms per liter (ug/L)

TABLE 3 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-02

Sample ID (Depth)	Statewide Health Standards	MW-7	MW-7	MW-7	MW-7	MW-7
Sampling Date	Groundwater	11/8/13	12/11/13	2/4/14	3/7/14	6/12/14
Matrix	Used Aquifers	Water	Water	Water	Water	Water
Units	<2,500 TDS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS						
1,3,5-Trimethylbenzene	13	8.5	12.1	NS	NS	<20
1,2,4-Trimethylbenzene	15	5.22	6.44	NS	NS	40.4
Benzene	5	7,480	5,100	NS	NS	390
Toluene	1,000	62.7	54.8	NS	NS	<20
Ethylbenzene	700	34.3	30.9	NS	NS	<20
Xylenes (total)	10,000	31.8	33.3	NS	NS	96.8
Isopropylbenzene	840	43	54.9	NS	NS	<20
Methyl tert-butyl ether	20	546	449	NS	NS	<20
Naphthalene	100	43.7	78.9	NS	NS	<20

Sample ID (Depth)	Statewide Health Standards	MW-8	MW-8	MW-8	MW-8	MW-8
Sampling Date	Groundwater	11/8/13	12/11/13	2/4/14	3/7/14	6/12/14
Matrix	Used Aquifers	Water	Water	Water	Water	Water
Units	<2,500 TDS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS						
1,3,5-Trimethylbenzene	13	<2	<1	NS	<1	<1
1,2,4-Trimethylbenzene	15	<2	<1	NS	<1	<1
Benzene	5	<2	<1	NS	<1	<1
Toluene	1,000	<2	<1	NS	<1	<1
Ethylbenzene	700	<2	<1	NS	<1	<1
Xylenes (total)	10,000	<4	<2	NS	<2	<2
Isopropylbenzene	840	<2	<1	NS	<1	<1
Methyl tert-butyl ether	20	2.7	<1	NS	<1	<1
Naphthalene	100	<2	<1	NS	<1	<1

NS - Not Sampled
All concentrations in micrograms per liter (ug/L)

TABLE 3 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-02

Sample ID (Depth)	Statewide Health Standards	MW-9	MW-9	MW-9	MW-9
Sampling Date	Groundwater	11/8/13	12/11/13	2/4/14	6/12/14
Matrix	Used Aquifers	Water	Water	Water	Water
Units	<2,500 TDS	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS					
1,3,5-Trimethylbenzene	13	<2	<1	NS	<1
1,2,4-Trimethylbenzene	15	<2	<1	NS	<1
Benzene	5	13	16.9	NS	58.3
Toluene	1,000	<2	<1	NS	2.24
Ethylbenzene	700	<2	<1	NS	1.96
Xylenes (total)	10,000	<4	<2	NS	<2
Isopropylbenzene	840	<2	<1	NS	5.73
Methyl tert-butyl ether	20	8	2.94	NS	5.88
Naphthalene	100	<2	<1	NS	<1

Sample ID (Depth)	Statewide Health Standards	MW-10	MW-10	MW-10	MW-10
Sampling Date	Groundwater	2/4/14	3/7/14	6/12/14	
Matrix	Used Aquifers	Water	Water	Water	
Units	<2,500 TDS	(ug/L)	(ug/L)	(ug/L)	
VOLATILE ORGANIC COMPOUNDS					
1,3,5-Trimethylbenzene	13	<2	<1	<1	
1,2,4-Trimethylbenzene	15	<2	<1	<1	
Benzene	5	<0.24	<1	<1	
Toluene	1,000	<2	<1	<1	
Ethylbenzene	700	<2	<1	<1	
Xylenes (total)	10,000	<4	<2	<2	
Isopropylbenzene	840	<2	<1	<1	
Methyl tert-butyl ether	20	<2	<1	<1	
Naphthalene	100	<2	<1	<1	

NS - Not Sampled
All concentrations in micrograms per liter (ug/L)

TABLE 3 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-02

Sample ID (Depth)	Statewide Health Standards	MW-11	MW-11	MW-11	MW-11
Sampling Date	Groundwater	2/4/14	3/7/14	6/12/14	
Matrix	Used Aquifers	Water	Water	Water	
Units	<2,500 TDS	(ug/L)	(ug/L)	(ug/L)	
VOLATILE ORGANIC COMPOUNDS					
1,3,5-Trimethylbenzene	13	<2	<1	<1	
1,2,4-Trimethylbenzene	15	<2	<1	<1	
Benzene	5	0.3	<1	<1	
Toluene	1,000	<2	<1	<1	
Ethylbenzene	700	<2	<1	<1	
Xylenes (total)	10,000	<4	<2	<2	
Isopropylbenzene	840	<2	<1	<1	
Methyl tert-butyl ether	20	<2	<1	<1	
Naphthalene	100	<2	<1	<1	

Sample ID (Depth)	Statewide Health Standards	MW-12	MW-12	MW-12	MW-12
Sampling Date	Groundwater	11/8/13	12/11/13	2/4/14	6/12/14
Matrix	Used Aquifers	Water	Water	Water	Water
Units	<2,500 TDS	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS					
1,3,5-Trimethylbenzene	13	<2	<1	NS	<1
1,2,4-Trimethylbenzene	15	<2	<1	NS	<1
Benzene	5	2.12	<1	NS	1.43
Toluene	1,000	6.64	<1	NS	3.12
Ethylbenzene	700	<2	<1	NS	1.48
Xylenes (total)	10,000	4.1	<2	NS	6.35
Isopropylbenzene	840	<2	<1	NS	<1
Methyl tert-butyl ether	20	<2	<1	NS	<1
Naphthalene	100	<2	<1	NS	<1

NS - Not Sampled
All concentrations in micrograms per liter (ug/L)

TABLE 3 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-02

Sample ID (Depth)	Statewide Health Standards	MW-13	MW-13
Sampling Date	Groundwater	4/29/14	6/12/14
Matrix	Used Aquifers	Water	Water
Units	<2,500 TDS	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS			
1,3,5-Trimethylbenzene	13	<1	<1
1,2,4-Trimethylbenzene	15	<1	<1
Benzene	5	<1	<1
Toluene	1,000	66.1	102
Ethylbenzene	700	<1	<1
Xylenes (total)	10,000	<2	<2
Isopropylbenzene	840	<1	<1
Methyl tert-butyl ether	20	<1	<1
Naphthalene	100	<1	<1

Sample ID (Depth)	Statewide Health Standards	MW-14	MW-14	MW-14
Sampling Date	Groundwater	4/29/14	6/12/14	
Matrix	Used Aquifers	Water	Water	
Units	<2,500 TDS	(ug/L)	(ug/L)	
VOLATILE ORGANIC COMPOUNDS				
1,3,5-Trimethylbenzene	13	<1	<1	
1,2,4-Trimethylbenzene	15	<1	<1	
Benzene	5	<1	<1	
Toluene	1,000	<1	<1	
Ethylbenzene	700	<1	<1	
Xylenes (total)	10,000	<2	<2	
Isopropylbenzene	840	<1	<1	
Methyl tert-butyl ether	20	<1	<1	
Naphthalene	100	<1	<1	

NS - Not Sampled
 All concentrations in micrograms per liter (ug/L)

TABLE 3 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-02

Sample ID (Depth)	Statewide Health Standards	MW-15	MW-15
Sampling Date	Groundwater	4/29/14	6/12/14
Matrix	Used Aquifers	Water	Water
Units	<2,500 TDS	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS			
1,3,5-Trimethylbenzene	13	<1	<1
1,2,4-Trimethylbenzene	15	<1	<1
Benzene	5	<1	<1
Toluene	1,000	<1	2.35
Ethylbenzene	700	<1	<1
Xylenes (total)	10,000	<2	2.94
Isopropylbenzene	840	<1	<1
Methyl tert-butyl ether	20	<1	<1
Naphthalene	100	<1	<1

Sample ID (Depth)	Statewide Health Standards	MW-16	MW-16
Sampling Date	Groundwater	4/29/14	6/12/14
Matrix	Used Aquifers	Water	Water
Units	<2,500 TDS	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS			
1,3,5-Trimethylbenzene	13	<1	<1
1,2,4-Trimethylbenzene	15	<1	<1
Benzene	5	<1	<1
Toluene	1,000	<1	<1
Ethylbenzene	700	<1	<1
Xylenes (total)	10,000	<2	<2
Isopropylbenzene	840	<1	<1
Methyl tert-butyl ether	20	9.18	3.02/3.42
Naphthalene	100	<1	<1

NS - Not Sampled
All concentrations in micrograms per liter (ug/L)

TABLE 2
SOIL SAMPLES
MARCH 13, 2012
FORMER ROSEMERGY'S CONVENIENCE STORE
HAWLEY, PA
11-17788-02

PARAMETER Sample Depth (Ft.)	NRMSC	PQL's	SB-8 (6)	SB-9 (10)	SB-10 (9)	SB-11 (7)	SB-12 (9)	SB-13 (6)	SB-14 (6)	SB-15 (6)	SB-16 (9)	SB-17 (9)	SB-18 (9)
BENZENE	0.5	0.005	2.4	6.68	0.78	1.24	27.7	1.41	<0.3	<0.0016	2.07	1.59	<0.524
CUMENE (Isopropylbenzene)	600	0.005	8.57	9.49	7.09	4.57	12.3	17.7	4.49	<0.004	10.5	5.48	3.85
ETHYLBENZENE	70	0.005	25.3	21.7	16	10.3	28	40.8	3.51	<0.004	28.7	19.1	9.82
METHYL TERT-BUTYL ETHER	2	0.66	<1.45	<1.46	<1.44	<1.15	<1.41	<1.43	<7.51	0.0386	<1.27	<0.818	<1.31
NAPHTHALENE	25	0.66	9.22	5.7	4.97	4.34	9.29	12.9	1.27	<0.004	7.76	5.76	2.44
TOLUENE	100	0.005	53.7	82.7	49.4	30.6	55.9	57	<7.51	<0.004	15.3	17.8	8.19
1,2,4-TRIMETHYLBENZENE	20	0.005	71.2	33.5	36.2	28	68	109	26.5	<0.004	68.1	38.8	24.3
1,3,5-TRIMETHYLBENZENE	6.2	NPQL	25.7	15.8	12.6	8.94	25.5	32.3	10.5	<0.004	21.8	13	6.31
XYLENES (totals)	1,000	0.005	130	87.3	67.6	46.7	147	217	2.91	<0.0079	104	83.2	47.9

PARAMETER Sample Depth (Ft.)	NRMSC	PQL's	SB-19 (6)	SB-20 (4.5)	SB-21 (6)	SB-22 (6)	SB-23 (6)	SB-24 (6)	SB-25 (6)	SB-26 (9)	SB-27 (6)	TRIP BLANK
BENZENE	0.5	0.005	0.594	113	15	16	25.7	16	3.31	1.27	<0.135	<1
CUMENE (Isopropylbenzene)	600	0.005	7.47	102	11.6	8.74	17.8	9.55	6.46	10.3	12.4	<1
ETHYLBENZENE	70	0.005	12.2	348	39.8	32.4	50.4	22.1	21.6	24	23.6	<1
METHYL TERT-BUTYL ETHER	2	0.66	<0.370	<1.54	<1.51	<1.49	<0.613	<0.747	<0.752	<0.688	<0.337	<1
NAPHTHALENE	25	0.66	5.13	58	13	10.9	20.2	8.33	7.94	8.56	8.13	<1
TOLUENE	100	0.005	1.55	1040	151	152	161	42.6	20.2	61.3	26.3	<1
1,2,4-TRIMETHYLBENZENE	20	0.005	40.6	826	82.9	64.5	131	55.4	54.2	55.3	86.9	<1
1,3,5-TRIMETHYLBENZENE	6.2	NPQL	11.3	234	28.3	23.8	36.1	16	12	15.8	26.2	<1
XYLENES (totals)	1,000	0.005	54.7	1750	202	164	276	112	108	127	131	<2

Concentrations in milligrams per kilogram (mg/Kg).

Trip Blank reported in micrograms per liter (µ/L).

NRMSC: Non-Residential Medium Specific Concentration SHS; Soil to Groundwater Numeric Value.

Used Aquifer, TDS less than or equal to 2,500 mg/L.

PQL: Practical Quantitation Limits.

NPQL: No Practical Quantitation Limits.

TABLE 1
GROUNDWATER ELEVATION DATA
FORMER ROSEMERGY'S STORE/GARAGE
1623 ROUTE 590
HAWLEY, PA
11-17788-02

WELL	TWD	SI	TOCG	TOC	DATE	DTW	GW ELEV
MW-1 (2)	14.70	3-14.7	-0.48	1300.57	5/8/12	5.30	1295.27
					6/17/12	6.52	1294.05
					5/14/13	IA	IA
					12/11/13	AB	AB
MW-1R	14.61	4-14.61	-0.28	1298.25	11/8/13	10.89	1287.36
					12/11/13	9.90	1288.35
					2/4/14	7.82	1290.43
					3/7/14	7.73	1290.52
					4/29/14	NS	NC
					6/12/14	6.35	1291.90
MW-2 (2)	14.40	3-14.4	-0.67	1299.67	5/8/12	3.18	1296.49
					6/17/12	5.61	1294.06
					5/14/13	3.51	1296.16
					11/8/13	8.62	1291.05
					12/11/13	5.70	1293.97
					2/4/14	NS	NC
					3/7/14	4.87	1294.80
					4/29/14	NS	NC
					6/12/14	NS	NC
MW-3 (2)	14.21	3-14.21	-0.37	1298.61	5/8/12	2.13	1296.48
					6/17/12	3.45	1295.16
					5/14/13	2.71	1295.90
					11/8/13	6.73	1291.88
					12/11/13	3.82	1294.79
					2/4/14	NS	NC
					3/7/14	NS	NC
					4/29/14	NS	NC
					6/12/14	3.49	1295.12
MW-4 (2)	14.56	3-14.56	-0.56	1299.05	5/8/12	2.45	1296.60
					6/17/12	3.96	1295.09
					5/14/13	3.19	1295.86
					11/8/13	7.36	1291.69
					12/11/13	4.41	1294.64
					2/4/14	NS	NC
					3/7/14	NS	NC
					4/29/14	NS	NC
					6/12/14	3.64	1295.41

TABLE 1
GROUNDWATER ELEVATION DATA
FORMER ROSEMERGY'S STORE/GARAGE
1623 ROUTE 590
HAWLEY, PA
11-17788-02

WELL	TWD	SI	TOCG	TOC	DATE	DTW	GW ELEV
MW-5 (2)	14.68	3-14.68	-0.26	1299.36	5/8/12	2.65	1296.71
					6/17/12	3.90	1295.46
					5/14/13	3.18	1296.18
					11/8/13	7.82	1291.54
					12/11/13	4.42	1294.94
					2/4/14	NS	NC
					3/7/14	3.83	1295.53
					4/29/14	NS	NC
MW-6 (2)	15.30	3-15.3	-0.51	1301.21	6/12/14	4.65	1294.71
					5/8/12	5.74	1295.47
					6/17/12	7.98	1293.23
					5/14/13	6.08	1295.13
MW-7	14.99	5-14.99	-0.57	1298.58	11/8/13	AB	AB
					11/8/13	12.48	1286.10
					12/11/13	12.59	1285.99
					2/4/14	NS	NC
					3/7/14	NS	NC
					4/29/14	NS	NC
MW-8	14.62	4-14.62	-0.39	1295.27	6/12/14	7.73	1290.85
					11/8/13	6.24	1289.03
					12/11/13	3.14	1292.13
					2/4/14	3.52	1291.75
					3/7/14	3.05	1292.22
					4/29/14	NS	NC
MW-9	14.65	4-14.62	-0.37	1293.91	6/12/14	2.80	1292.47
					11/8/13	3.96	1289.95
					12/11/13	1.14	1292.77
					2/4/14	1.82	1292.09
					3/7/14	1.12	1292.79
					4/29/14	NS	NC
MW-10	14.25	5-14.25	-0.41	1297.61	6/12/14	1.43	1292.48
					11/8/13	NI	NC
					12/11/13	NI	NC
					2/4/14	3.13	1294.48
					3/7/14	2.72	1294.89
					4/29/14	NS	NC
					6/12/14	3.04	1294.57

TABLE 1
GROUNDWATER ELEVATION DATA
FORMER ROSEMERGY'S STORE/GARAGE
1623 ROUTE 590
HAWLEY, PA
11-17788-02

WELL	TWD	SI	TOCG	TOC	DATE	DTW	GW ELEV
MW-11	14.73	5-14.73	-0.25	1298.35	11/8/13	NI	NC
					12/11/13	NI	NC
					2/4/14	3.68	1294.67
					3/7/14	3.22	1295.13
					4/29/14	NS	NC
					6/12/14	3.47	1294.88
MW-12	14.65	4-14.65	-0.81	1297.44	11/8/13	9.40	1288.04
					12/11/13	5.46	1291.98
					2/4/14	5.55	1291.89
					3/7/14	5.18	1292.26
					4/29/14	NS	NC
					6/12/14	4.93	1292.51
MW-13	14.93	5.75-14.93	-0.2	1303.84	11/8/13	WNI	
					12/11/13		
					2/4/14		
					3/7/14		
					4/29/14	11.53	1292.31
					6/12/14	12.64	1291.20
MW-14	18.65	5-18.65	-0.3	1304.54	11/8/13	WNI	
					12/11/13		
					2/4/14		
					3/7/14		
					4/29/14	11.37	1293.17
					6/12/14	12.73	1291.81
MW-15	14.86	5-14.86	-0.3	1301.14	11/8/13	WNI	
					12/11/13		
					2/4/14		
					3/7/14		
					4/29/14	6.45	1294.69
					6/12/14	8.41	1292.73
MW-16	14.69	5-14.69	-0.3	1295.24	11/8/13	WNI	
					12/11/13		
					2/4/14		
					3/7/14		
					4/29/14	0.708	1294.53
					6/12/14	1.47	1293.77

(2) = Diameter of Well Casing in Inches.
TWD = Total Well Depth in feet below grade.
SI = Screened Interval in feet below grade.
TOCG = Top of Well Casing relative to Grade.
+ = Approximate feet above grade.
- = Approximate feet below grade.
TOC = Top of Well Casing.
NI = Not Installed

DTW = Measured Depth to Groundwater from TOC.
GW ELEV = Calculated Groundwater Elevation.
NM = Well not measured.
NA = Not Applicable.
IA = Inaccessible.
NS = Not Sampled.
AB = Abandoned or Destroyed

July 8, 2014

Orion Cook
Converse Consultants
2738 West College Avenue
State College, PA 16801

Project Location: Rosemary - Hawley, PA
Client Job Number:
Project Number: 11-17788-01
Laboratory Work Order Number: 14F1265

Enclosed are results of analyses for samples received by the laboratory on June 26, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Converse Consultants
2738 West College Avenue
State College, PA 16801
ATTN: Orion Cook

REPORT DATE: 7/8/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 11-17788-01

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14F1265

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Rosemary - Hawley, PA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IA-1 Indoor Air	14F1265-01	Indoor air		EPA TO-15	
IA-2 Indoor Air	14F1265-02	Indoor air		EPA TO-15	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Rosemary - Hawley, PA
Date Received: 6/26/2014
Field Sample #: IA-1 Indoor Air
Sample ID: 14F1265-01
Sample Matrix: Indoor air
Sampled: 6/18/2014 12:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1448
Canister Size: 6 liter
Flow Controller ID: 4625
Sample Type: 3 hr

Work Order: 14F1265
Initial Vacuum(in Hg): -28.6
Final Vacuum(in Hg): -7.8
Receipt Vacuum(in Hg): -4.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.35	0.035		1.1	0.11	0.702	6/27/14	21:03	WSD
Ethylbenzene	0.55	0.035		2.4	0.15	0.702	6/27/14	21:03	WSD
Isopropylbenzene (Cumene)	ND	0.13		ND	0.65	0.702	6/27/14	21:03	WSD
Methyl tert-Butyl Ether (MTBE)	0.20	0.035		0.70	0.13	0.702	6/27/14	21:03	WSD
Naphthalene	ND	0.035		ND	0.18	0.702	6/27/14	21:03	WSD
Toluene	4.6	0.035		17	0.13	0.702	6/27/14	21:03	WSD
1,2,4-Trimethylbenzene	0.30	0.035		1.5	0.17	0.702	6/27/14	21:03	WSD
1,3,5-Trimethylbenzene	0.10	0.035		0.50	0.17	0.702	6/27/14	21:03	WSD
m&p-Xylene	1.8	0.070		8.0	0.30	0.702	6/27/14	21:03	WSD
o-Xylene	0.52	0.035		2.2	0.15	0.702	6/27/14	21:03	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.6	70-130	6/27/14 21:03
4-Bromofluorobenzene (2)	102	70-130	6/27/14 21:03

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ANALYTICAL RESULTS

Project Location: Rosemary - Hawley, PA
Date Received: 6/26/2014
Field Sample #: IA-2 Indoor Air
Sample ID: 14F1265-02
Sample Matrix: Indoor air
Sampled: 6/18/2014 12:31

Sample Description/Location:
Sub Description/Location:
Canister ID: 1218
Canister Size: 6 liter
Flow Controller ID: 4626
Sample Type: 3 hr

Work Order: 14F1265
Initial Vacuum(in Hg): -28.2
Final Vacuum(in Hg): -7.6
Receipt Vacuum(in Hg): -8.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.28	0.035		0.88	0.11	0.702	6/27/14	21:50	WSD
Ethylbenzene	0.12	0.035		0.51	0.15	0.702	6/27/14	21:50	WSD
Isopropylbenzene (Cumene)	ND	0.13		ND	0.65	0.702	6/27/14	21:50	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	6/27/14	21:50	WSD
Naphthalene	ND	0.035		ND	0.18	0.702	6/27/14	21:50	WSD
Toluene	0.95	0.035		3.6	0.13	0.702	6/27/14	21:50	WSD
1,2,4-Trimethylbenzene	0.086	0.035		0.42	0.17	0.702	6/27/14	21:50	WSD
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	6/27/14	21:50	WSD
m&p-Xylene	0.41	0.070		1.8	0.30	0.702	6/27/14	21:50	WSD
o-Xylene	0.12	0.035		0.54	0.15	0.702	6/27/14	21:50	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.1	70-130	6/27/14 21:50
4-Bromofluorobenzene (2)	103	70-130	6/27/14 21:50

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Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
14F1265-01 [IA-1 Indoor Air]	B099185	1.5	1	N/A	1000	400	855	06/27/14
14F1265-02 [IA-2 Indoor Air]	B099185	1.5	1	N/A	1000	400	855	06/27/14

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B099185 - TO-15 Prep											
Blank (B099185-BLK1)					Prepared & Analyzed: 06/27/14						
Benzene	ND	0.025									
Ethylbenzene	ND	0.025									
Isopropylbenzene (Cumene)	ND	0.094									
Methyl tert-Butyl Ether (MTBE)	ND	0.025									
Naphthalene	ND	0.025									
Toluene	ND	0.025									
1,2,4-Trimethylbenzene	ND	0.025									
1,3,5-Trimethylbenzene	ND	0.025									
m&p-Xylene	ND	0.050									
o-Xylene	ND	0.025									
Surrogate: 4-Bromofluorobenzene (1)	6.62				8.00		82.8	70-130			
Surrogate: 4-Bromofluorobenzene (2)	6.96				8.00		87.0	70-130			
LCS (B099185-BS1)					Prepared & Analyzed: 06/27/14						
Benzene	3.82				5.00		76.3	70-130			
Ethylbenzene	4.58				5.00		91.6	70-130			
Isopropylbenzene (Cumene)	1.37				1.27		108	70-130			
Methyl tert-Butyl Ether (MTBE)	4.62				5.00		92.4	70-130			
Naphthalene	4.09				5.00		81.7	70-130			
Toluene	4.46				5.00		89.1	70-130			
1,2,4-Trimethylbenzene	4.64				5.00		92.8	70-130			
1,3,5-Trimethylbenzene	4.76				5.00		95.3	70-130			
m&p-Xylene	9.55				10.0		95.5	70-130			
o-Xylene	4.50				5.00		90.0	70-130			
Surrogate: 4-Bromofluorobenzene (1)	7.39				8.00		92.4	70-130			
Surrogate: 4-Bromofluorobenzene (2)	7.49				8.00		93.7	70-130			
Duplicate (B099185-DUP1)					Source: 14F1265-02		Prepared & Analyzed: 06/27/14				
Benzene	0.28	0.035	0.90	0.11		0.28			2.02	25	
Ethylbenzene	0.12	0.035	0.52	0.15		0.12			3.55	25	
Isopropylbenzene (Cumene)	ND	0.13	ND	0.65		ND				25	
Methyl tert-Butyl Ether (MTBE)	ND	0.035	ND	0.13		ND				25	
Naphthalene	ND	0.035	ND	0.18		ND				25	
Toluene	0.93	0.035	3.5	0.13		0.95			1.19	25	
1,2,4-Trimethylbenzene	0.081	0.035	0.40	0.17		0.086			5.91	25	
1,3,5-Trimethylbenzene	ND	0.035	ND	0.17		ND				25	
m&p-Xylene	0.42	0.070	1.8	0.30		0.41			1.35	25	
o-Xylene	0.12	0.035	0.54	0.15		0.12			0.00	25	
Surrogate: 4-Bromofluorobenzene (1)	7.50				8.00		93.8	70-130			
Surrogate: 4-Bromofluorobenzene (2)	8.19				8.00		102	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Benzene	AIHA,FL,NJ,NY,VA,ME
Ethylbenzene	AIHA,FL,NJ,NY,VA,ME
Isopropylbenzene (Cumene)	AIHA,NJ,NY,ME
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,VA,ME
Naphthalene	NY,ME
Toluene	AIHA,FL,NJ,NY,VA,ME
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME
m&p-Xylene	AIHA,FL,NJ,NY,VA,ME
o-Xylene	AIHA,FL,NJ,NY,VA,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

Company Name: <u>Converse Consultants</u>		Telephone: <u>814-234-3225</u>																																						
Address: <u>2138 W College Ave</u>		Project # <u>11-17788-01</u>																																						
State <u>PA</u> Zip <u>16801</u>		Client PO # <u>11-17788-01</u>																																						
Attention: <u>David Sweetland or Orion Cook</u>		DATA DELIVERY (check one) <input type="checkbox"/> FAX <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> WEBSITE CLIENT Email: <u>orioncook@converseconsultants.com</u> Fax #: _____ Format: <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> PDF <input type="checkbox"/> GIS KEY <input type="checkbox"/> OTHER _____																																						
Project Location: <u>Rosemery - Hawley, PA</u>																																								
Sampled By: <u>TDI</u>																																								
Proposal Provided? (for Billing purposes) <input type="checkbox"/> yes <input type="checkbox"/> no																																								
Field ID	Sample Description	Media	Lab #	Start Date	Stop Date	Total Time	Flow Rate M ³ /Min. or L/Min.	Volume Liters or M ³	Matrix Code*	(2008 PADEP Unleaded) Gas Short List by T0-15	ANALYSIS REQUESTED	I n f o r m a t i o n p r e p a r e d f o r u s e o n l y i n t h e l a b o r a t o r y	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s i s r e s u l t s a n d c o n c l u s i o n s a r e p r o v i d e d o n a s e p a r a t e s h e e t	S u m m a r y o f a n a l y s

IMPORTANT!

Severe thunderstorms are causing delays and disruptions. Learn More

**790014025475**

Ship (P/U) date:

Tues 6/24/2014

STATE COLLEGE, PA US

**Delivered**

Signed for by: C.DOLLINS

Actual delivery:

Thur 6/26/2014 3:41 pm

East Longmeadow, MA US

Returns**Travel History**

▲ Date/Time	Activity	Location
- 6/26/2014 - Thursday		
3:41 pm	Delivered	East Longmeadow, MA
5:25 am	On FedEx vehicle for delivery	CHICOPEE, MA
5:18 am	At local FedEx facility	CHICOPEE, MA
- 6/25/2014 - Wednesday		
11:44 pm	Departed FedEx location	WILLINGTON, CT
7:54 pm	Arrived at FedEx location	WILLINGTON, CT
10:09 am	Departed FedEx location	LEWISBERRY, PA
5:04 am	Arrived at FedEx location	LEWISBERRY, PA
- 6/24/2014 - Tuesday		
9:43 pm	Left FedEx origin facility	DUNCANSVILLE, PA
8:20 pm	Arrived at FedEx location	DUNCANSVILLE, PA
10:56 am	Picked up	DUNCANSVILLE, PA

Local Scan Time

Shipment Facts

Tracking number	790014025475	Service	FedEx Ground
Weight	20.8 lbs	Dimensions	22x18x13 in.
Total pieces	1	Packaging	Package
Special handling section	Package Returns Program		

Page 2 of 2

Login Sample Receipt Checklist**(Rejection Criteria Listing - Using Sample Acceptance Policy)****Any False statement will be brought to the attention of Client**

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	NA	
3) Samples were received on ice.	NA	
4) Cooler Temperature is acceptable.	NA	
5) Cooler Temperature is recorded.	NA	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Doc #278 Rev. 4 January 2014

Who notified of False statements?

Log-In Technician Initials: PB

Date/Time:

Date/Time: 6.26.14

15.14



www.contestlabs.com



Page 1 of 2

AIR Only Receipt Checklist

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

CLIENT NAME: Converse RECEIVED BY: PB DATE: 6.26.14

1) Was the chain(s) of custody relinquished and signed? ☒ Yes ☐ No

2) Does the chain agree with the samples? ☒ Yes ☐ No

If not, explain:

3) Are all the samples in good condition? ☒ Yes ☐ No

If not, explain:

4) Are there any samples "On Hold"? ☐ Yes ☒ No

Stored where:

5) Are there any RUSH or SHORT HOLDING TIME samples? ☐ Yes ☒ No

Who was notified _____ Date _____ Time _____

6) Location where samples are stored:

Air Lab

Permission to subcontract samples? Yes ☐ No ☐

(Walk-in clients only) if not already approved

Client Signature: _____

7) Number of cans Individually Certified or Batch Certified? NONE

Containers received at Con-Test

	# of Containers	Types (Size, Duration)
Summa Cans (TO-14/TO-15/APH)	3	2 60lt 1 1lt
Tedlar Bags		
TO-17 Tubes		
Regulators	3	4 hr
Restrictors		
Hg/Hopcalite Tube (NIOSH 6009)		
(TO-4A/ TO-10A/TO-13) PUFs		
PCB Florisil Tubes (NIOSH 5503)		
Air cassette		
PM 2.5/PM 10		
TO-11A Cartridges		
Other		

Unused Summas/PUF Media:

1412

Unused Regulators:

1) Was all media (used & unused) checked into the WASP?

2) Were all returned summa cans, Restrictors & Regulators and PUF's documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments:

1448 3224
1218 4625
4626

14F1265

PO #:

Con-Test Analytical Laboratory

Client: Converse Consultants
 Project: Hawley, PA
 Project Location: Rosemary - Hawley, PA

Project Manager: Meghan E. Kelley
 Project Number: 11-17788-01
 Deliverable Package: None Requested

Report To:

Converse Consultants
 Orion Cook
 2738 West College Avenue
 State College, PA 16801
 Phone: 814-234-3223
 Fax: 814-234-3255

Invoice To:

Converse Consultants
 Orion Cook
 2738 West College Avenue
 State College, PA 16801
 Phone :814-234-3223
 Fax: 814-234-3255

Date Due: 07/08/14 18:00 (7 day TAT)

Received By: Paula E. Blakeborough

Logged In By: Paula E. Blakeborough

Date Received: 06/26/14 15:41

Date Logged In: 06/26/14 16:32

Samples Received at:

COC Relinquish Signed	Yes	Temperature by Temp. Blank	No	
COC/Sample Labels Agree	Yes	Temperature by Temp. Gun	No	Soil VOA samples not completely covered by preserv
All Samples In Good Condition	Yes	Direct From Sampling - Ambient Temp.	No	Container(s) not supplied by Con-Test Lab
Samples Received at < 6 C.	No	Received On Ice	No	Custody Seals

Analysis	Due	TAT	Expires	Comments
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14F1265-01 IA-1 Indoor Air [Air] Sampled 06/18/14 12:30 Eastern

TO-15 Select List Low Level	07/07/14 23:59	7	07/18/14 12:30
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14F1265-02 IA-2 Indoor Air [Air] Sampled 06/18/14 12:31 Eastern

TO-15 Select List Low Level	07/07/14 23:59	7	07/18/14 12:31
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Reviewed By

Date

Invoice OK to Spool

Initials

March 25, 2014

Orion Cook
Converse Consultants
2738 West College Avenue
State College, PA 16801

Project Location: Hawley, PA
Client Job Number:
Project Number: 11-17788-01
Laboratory Work Order Number: 14C0469

Enclosed are results of analyses for samples received by the laboratory on March 14, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

Converse Consultants
2738 West College Avenue
State College, PA 16801
ATTN: Orion Cook

REPORT DATE: 3/25/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 11-17788-01

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14C0469

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hawley, PA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
VP-1	14C0469-01	Soil Gas		EPA TO-15	
VP-2	14C0469-02	Soil Gas		EPA TO-15	
VP-3	14C0469-03	Soil Gas		EPA TO-15	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Daren J. Damboragian", is written over a light gray rectangular background.

Daren J. Damboragian
Laboratory Manager

ANALYTICAL RESULTS

Project Location: Hawley, PA
Date Received: 3/14/2014
Field Sample #: VP-1
Sample ID: 14C0469-01
Sample Matrix: Soil Gas
Sampled: 3/7/2014 15:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 2093
Canister Size: 1 liter
Flow Controller ID: 3310
Sample Type: 1 hr

Work Order: 14C0469
Initial Vacuum(in Hg): -24.9
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -8.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	ND	0.10		ND	0.32	2	3/25/14 6:10		TPH
Ethylbenzene	ND	0.10		ND	0.43	2	3/25/14 6:10		TPH
Isopropylbenzene (Cumene)	0.61	0.38		3.0	1.8	2	3/25/14 6:10		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	3/25/14 6:10		TPH
Naphthalene	0.77	0.10		4.0	0.52	2	3/25/14 6:10		TPH
Toluene	39	0.10		150	0.38	2	3/25/14 6:10		TPH
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	3/25/14 6:10		TPH
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	3/25/14 6:10		TPH
m&p-Xylene	1.1	0.20		4.8	0.87	2	3/25/14 6:10		TPH
o-Xylene	0.36	0.10		1.5	0.43	2	3/25/14 6:10		TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	3/25/14 6:10
4-Bromofluorobenzene (4)	111	70-130	3/25/14 6:10

ANALYTICAL RESULTS

Project Location: Hawley, PA
Date Received: 3/14/2014
Field Sample #: VP-2
Sample ID: 14C0469-02
Sample Matrix: Soil Gas
Sampled: 3/7/2014 15:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 2095
Canister Size: 1 liter
Flow Controller ID: 3063
Sample Type: 1 hr

Work Order: 14C0469
Initial Vacuum(in Hg): -29.6
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -3.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.39	0.10		1.2	0.32	2	3/25/14 6:49	TPH	
Ethylbenzene	ND	0.10		ND	0.43	2	3/25/14 6:49	TPH	
Isopropylbenzene (Cumene)	ND	0.38		ND	1.8	2	3/25/14 6:49	TPH	
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	3/25/14 6:49	TPH	
Naphthalene	ND	0.10		ND	0.52	2	3/25/14 6:49	TPH	
Toluene	99	0.50		370	1.9	10	3/25/14 11:56	TPH	
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	3/25/14 6:49	TPH	
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	3/25/14 6:49	TPH	
m&p-Xylene	1.1	0.20		4.7	0.87	2	3/25/14 6:49	TPH	
o-Xylene	0.33	0.10		1.5	0.43	2	3/25/14 6:49	TPH	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	3/25/14 6:49
4-Bromofluorobenzene (1)	94.3	70-130	3/25/14 11:56
4-Bromofluorobenzene (4)	109	70-130	3/25/14 6:49

ANALYTICAL RESULTS

Project Location: Hawley, PA
Date Received: 3/14/2014
Field Sample #: VP-3
Sample ID: 14C0469-03
Sample Matrix: Soil Gas
Sampled: 3/7/2014 15:28

Sample Description/Location:
Sub Description/Location:
Canister ID: 2094
Canister Size: 1 liter
Flow Controller ID: 3045
Sample Type: 1 hr

Work Order: 14C0469
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -7.6
Receipt Vacuum(in Hg): -7.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	ND	0.50		ND	1.6	10	3/25/14 7:29		TPH
Ethylbenzene	ND	0.50		ND	2.2	10	3/25/14 7:29		TPH
Isopropylbenzene (Cumene)	ND	1.9		ND	9.2	10	3/25/14 7:29		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.50		ND	1.8	10	3/25/14 7:29		TPH
Naphthalene	ND	0.50		ND	2.6	10	3/25/14 7:29		TPH
Toluene	320	0.50		1200	1.9	10	3/25/14 7:29		TPH
1,2,4-Trimethylbenzene	ND	0.50		ND	2.5	10	3/25/14 7:29		TPH
1,3,5-Trimethylbenzene	ND	0.50		ND	2.5	10	3/25/14 7:29		TPH
m&p-Xylene	5.2	1.0		22	4.3	10	3/25/14 7:29		TPH
o-Xylene	1.6	0.50		7.1	2.2	10	3/25/14 7:29		TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	3/25/14 7:29
4-Bromofluorobenzene (4)	111	70-130	3/25/14 7:29

Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
14C0469-01 [VP-1]	B092509	1.5	1	N/A	1000	400	300	03/24/14
14C0469-02 [VP-2]	B092509	1.5	1	N/A	1000	400	300	03/24/14
14C0469-02RE1 [VP-2]	B092509	1.5	1	N/A	1000	400	60	03/24/14
14C0469-03 [VP-3]	B092509	1.5	1	N/A	1000	400	300	03/24/14

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result		Limits		Limit	

Batch B092509 - TO-15 Prep

Blank (B092509-BLK1)

Prepared & Analyzed: 03/24/14

Benzene	ND	0.025
Ethylbenzene	ND	0.025
Isopropylbenzene (Cumene)	ND	0.094
Methyl tert-Butyl Ether (MTBE)	ND	0.025
Naphthalene	ND	0.025
Toluene	ND	0.025
1,2,4-Trimethylbenzene	ND	0.025
1,3,5-Trimethylbenzene	ND	0.025
m&p-Xylene	ND	0.050
o-Xylene	ND	0.025

Surrogate: 4-Bromofluorobenzene (1)	8.19	8.00	102	70-130
Surrogate: 4-Bromofluorobenzene (4)	8.82	8.00	110	70-130

LCS (B092509-BS1)

Prepared & Analyzed: 03/24/14

Benzene	4.49	5.00	89.7	70-130
Ethylbenzene	4.36	5.00	87.2	70-130
Isopropylbenzene (Cumene)	8.00	9.38	85.4	70-130
Methyl tert-Butyl Ether (MTBE)	4.61	5.00	92.2	70-130
Naphthalene	3.91	5.00	78.2	70-130
Toluene	4.93	5.00	98.6	70-130
1,2,4-Trimethylbenzene	4.68	5.00	93.7	70-130
1,3,5-Trimethylbenzene	4.49	5.00	89.8	70-130
m&p-Xylene	8.91	10.0	89.1	70-130
o-Xylene	4.33	5.00	86.6	70-130

Surrogate: 4-Bromofluorobenzene (1)	8.18	8.00	102	70-130
Surrogate: 4-Bromofluorobenzene (4)	8.85	8.00	111	70-130

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Benzene	AIHA,FL,NJ,NY,VA,ME
Ethylbenzene	AIHA,FL,NJ,NY,VA,ME
Isopropylbenzene (Cumene)	AIHA,NJ,NY,ME
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,VA,ME
Naphthalene	NY,ME
Toluene	AIHA,FL,NJ,NY,VA,ME
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME
m&p-Xylene	AIHA,FL,NJ,NY,VA,ME
o-Xylene	AIHA,FL,NJ,NY,VA,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

AIR SAMPLE CHAIN OF CUSTODY RECORD

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

Page ____ of ____

Company Name: Converse Consultants
Address: 2938 W. College Ave.
State College PA, 16801

Telephone: (814) 234-3223
Project # 11-19980-01

Attention: Drs. or OLC

Project Location: Rosemeadi, Hazlet, PA
Sampled By: Tim Gathe

Proposal Provided? (For Billing purposes)

☐ yes ☐ no proposal date

DATA DELIVERY (check one):
☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT

Fax #: _____
Email: acook@converseconsultants.com
Format: ☒ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER _____

Date Sampled ☐ ONLY USE WHEN USING PUMPS

Start Stop Total Flow Rate Volume Matrix

Date Time Date Time Minutes Sampled L / Min. Liters or Matrix Code*

VP-1 Soil Gas S Q1 3-9-14 3-1-14 60 6.0161 1 56 X

VP-2 Soil Gas S Q2 3-9-14 3-9-14 60 6.0167 1 56 X

VP-3 Soil Gas S Q3 3-9-14 3-9-14 60 6.0167 1 56 X

Laboratory Comments:

CLIENT COMMENTS:

Turnaround **

☐ 7-Day
☐ 10-Day
☒ 14-Day
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IMPORTANT!FedEx has resumed standard daily operations in the northeastern U.S. [Learn More](#)**795896510377**

Ship (P/U) date:

Wed 3/12/2014

STATE COLLEGE, PA US

**Delivered**

Signed by: CROLLINS

Actual delivery:

Fri 3/14/2014 12:37 pm

East Longmeadow, MA US

Travel History

Date/Time	Activity	Location
- 3/14/2014 - Friday		
12:37 pm	Delivered	East Longmeadow, MA
6:56 am	On FedEx vehicle for delivery	CHICOPEE, MA
6:30 am	At local FedEx facility	CHICOPEE, MA
12:50 am	Departed FedEx location	WILMINGTON, CT
- 3/13/2014 - Thursday		
8:27 pm	Arrived at FedEx location	WILMINGTON, CT
9:10 am	Departed FedEx location	LEWISBURG, PA
2:38 am	Arrived at FedEx location	LEWISBURG, PA
- 3/12/2014 - Wednesday		
9:15 pm	Left FedEx origin facility	DUNCANSVILLE, PA
7:11 pm	Arrived at FedEx location	DUNCANSVILLE, PA
12:33 pm	Picked up	DUNCANSVILLE, PA

Local Scan Time ☒**Shipment Facts**

Tracking number	795896510377	Service	FedEx Ground
Weight	20 lbs.	Dimensions	21x18x14 in
Total pieces	1	Packaging	Package
Special handling section	Package Returns Program		



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Page 1 of 2

AIR Only Receipt Checklist

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

CLIENT NAME: Converse Consultants RECEIVED BY: RCF DATE: 3/14/14

1) Was the chain(s) of custody relinquished and signed? ☒ Yes ☐ No

2) Does the chain agree with the samples? ☒ Yes ☐ No

If not, explain:

3) Are all the samples in good condition? ☒ Yes ☐ No

If not, explain:

4) Are there any samples "On Hold"?

Yes ☒ No ☐ Stored where:

5) Are there any RUSH or SHORT HOLDING TIME samples?

Yes ☒ No ☐

Who was notified _____ Date _____ Time _____

6) Location where samples are stored:

Air Lab

Permission to subcontract samples? Yes ☐ No ☐
(Walk-in clients only) if not already approved
Client Signature: _____

7) Number of cans Individually Certified or Batch Certified? 0

Containers received at Con-Test

	# of Containers	Types (Size, Duration)
Summa Cans (TO-14/TO-15/APH)	<u>3</u>	<u>1L</u>
Tedlar Bags		
TO-17 Tubes		
Regulators	<u>3</u>	<u>1hr</u>
Restrictors		
Hg/Hopcalite Tube (NIOSH 6009)		
(TO-4A/ TO-10A/TO-13) PUFs		
PCB Florisil Tubes (NIOSH 5503)		
Air cassette		
PM 2.5/PM 10		
TO-11A Cartridges		
Other		

Unused Summas/PUF Media:

Unused Regulators:

1) Was all media (used & unused) checked into the WASP?

2) Were all returned summa cans, Restrictors & Regulators and PUF's documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments:

2093 2094
2095

3310
3063
3045

Login Sample Receipt Checklist**(Rejection Criteria Listing - Using Sample Acceptance Policy)****Any False statement will be brought to the attention of Client**

Question	Answer (True/False)		Comment
	T/F/NA		
1) The cooler's custody seal, if present, is intact.	T		
2) The cooler or samples do not appear to have been compromised or tampered with.	T		
3) Samples were received on ice.	NA		
4) Cooler Temperature is acceptable.	NA		
5) Cooler Temperature is recorded.	NA		
6) COC is filled out in ink and legible.	T		
7) COC is filled out with all pertinent information.	T		
8) Field Sampler's name present on COC.	T		
9) There are no discrepancies between the sample IDs on the container and the COC.	T		
10) Samples are received within Holding Time.	T		
11) Sample containers have legible labels.	T		
12) Containers are not broken or leaking.	T		
13) Air Cassettes are not broken/open.	NA		
14) Sample collection date/times are provided.	T		
15) Appropriate sample containers are used.	T		
16) Proper collection media used.	T		
17) No headspace sample bottles are completely filled.	T		
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T		
19) Trip blanks provided if applicable.	NA		
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA		
21) Samples do not require splitting or compositing.	T		

February 28, 2014

Orion Cook
Converse Consultants
2738 West College Avenue
State College, PA 16801

Project Location: Hawley, PA
Client Job Number:
Project Number: 11-17788-02
Laboratory Work Order Number: 14B0525

Enclosed are results of analyses for samples received by the laboratory on February 19, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

Converse Consultants
2738 West College Avenue
State College, PA 16801
ATTN: Orion Cook

REPORT DATE: 2/28/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 11-17788-02

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0525

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hawley, PA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SV-1	14B0525-01	Soil Gas		EPA TO-15	
SV-2	14B0525-02	Soil Gas		EPA TO-15	
SV-3	14B0525-03	Soil Gas		EPA TO-15	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15**Qualifications:**

Surrogate outside of control limits.

Analyte & Samples(s) Qualified:**4-Bromofluorobenzene (4)**

14B0525-01[SV-1], 14B0525-03[SV-3]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

ANALYTICAL RESULTS

Project Location: Hawley, PA
Date Received: 2/19/2014
Field Sample #: SV-1
Sample ID: 14B0525-01
Sample Matrix: Soil Gas
Sampled: 2/4/2014 16:08

Sample Description/Location:
Sub Description/Location:
Canister ID: 1546
Canister Size: 1 liter
Flow Controller ID: 3050
Sample Type: 1 hr

Work Order: 14B0525
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -5.7
Receipt Vacuum(in Hg): -2.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.13	0.10		0.42	0.32	2	2/22/14	15:22	TPH
Ethylbenzene	ND	0.10		ND	0.43	2	2/22/14	15:22	TPH
Isopropylbenzene (Cumene)	ND	0.38		ND	1.8	2	2/22/14	15:22	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/22/14	15:22	TPH
Naphthalene	ND	0.10		ND	0.52	2	2/22/14	15:22	TPH
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/22/14	15:22	TPH
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/22/14	15:22	TPH
m&p-Xylene	0.25	0.20		1.1	0.87	2	2/22/14	15:22	TPH
o-Xylene	0.11	0.10		0.47	0.43	2	2/22/14	15:22	TPH

Surrogates	% Recovery		% REC Limits		Date/Time	
4-Bromofluorobenzene (1)	123		70-130		2/22/14 15:22	
4-Bromofluorobenzene (4)	133*		S-26 70-130		2/22/14 15:22	

ANALYTICAL RESULTS

Project Location: Hawley, PA
Date Received: 2/19/2014
Field Sample #: SV-2
Sample ID: 14B0525-02
Sample Matrix: Soil Gas
Sampled: 2/4/2014 14:21

Sample Description/Location:
Sub Description/Location:
Canister ID: 1543
Canister Size: 1 liter
Flow Controller ID: 3042
Sample Type: 1 hr

Work Order: 14B0525
Initial Vacuum(in Hg): -26.9
Final Vacuum(in Hg): -2.2
Receipt Vacuum(in Hg): -2.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.11	0.10		0.35	0.32	2	2/22/14	16:02	TPH
Ethylbenzene	ND	0.10		ND	0.43	2	2/22/14	16:02	TPH
Isopropylbenzene (Cumene)	ND	0.38		ND	1.8	2	2/22/14	16:02	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/22/14	16:02	TPH
Naphthalene	ND	0.10		ND	0.52	2	2/22/14	16:02	TPH
1,2,4-Trimethylbenzene	0.13	0.10		0.65	0.49	2	2/22/14	16:02	TPH
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/22/14	16:02	TPH
m&p-Xylene	0.31	0.20		1.3	0.87	2	2/22/14	16:02	TPH
o-Xylene	0.14	0.10		0.60	0.43	2	2/22/14	16:02	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	120	70-130	2/22/14 16:02
4-Bromofluorobenzene (4)	129	70-130	2/22/14 16:02

ANALYTICAL RESULTS

Project Location: Hawley, PA
Date Received: 2/19/2014
Field Sample #: SV-3
Sample ID: 14B0525-03
Sample Matrix: Soil Gas
Sampled: 2/4/2014 16:08

Sample Description/Location:
Sub Description/Location:
Canister ID: 1544
Canister Size: 1 liter
Flow Controller ID: 3043
Sample Type: 1 hr

Work Order: 14B0525
Initial Vacuum(in Hg): -29.6
Final Vacuum(in Hg): -3.0
Receipt Vacuum(in Hg): -1.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.12	0.10		0.38	0.32	2	2/22/14	16:41	TPH
Ethylbenzene	ND	0.10		ND	0.43	2	2/22/14	16:41	TPH
Isopropylbenzene (Cumene)	ND	0.38		ND	1.8	2	2/22/14	16:41	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	2/22/14	16:41	TPH
Naphthalene	ND	0.10		ND	0.52	2	2/22/14	16:41	TPH
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	2/22/14	16:41	TPH
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	2/22/14	16:41	TPH
m&p-Xylene	0.28	0.20		1.2	0.87	2	2/22/14	16:41	TPH
o-Xylene	0.12	0.10		0.53	0.43	2	2/22/14	16:41	TPH

Surrogates	% Recovery		% REC Limits		Date/Time	
4-Bromofluorobenzene (1)	121		70-130		2/22/14 16:41	
4-Bromofluorobenzene (4)	187*	S-26	70-130		2/22/14 16:41	

Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
14B0525-01 [SV-1]	B090869	2	1	N/A	1000	400	400	02/21/14
14B0525-02 [SV-2]	B090869	2	1	N/A	1000	400	400	02/21/14
14B0525-03 [SV-3]	B090869	2	1	N/A	1000	400	400	02/21/14

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result		Limits		Limit	

Batch B090869 - TO-15 Prep

Blank (B090869-BLK1)

Prepared & Analyzed: 02/21/14

Benzene	ND	0.025
Ethylbenzene	ND	0.025
Isopropylbenzene (Cumene)	ND	0.064
Methyl tert-Butyl Ether (MTBE)	ND	0.025
Naphthalene	ND	0.025
1,2,4-Trimethylbenzene	ND	0.025
1,3,5-Trimethylbenzene	ND	0.025
m&p-Xylene	ND	0.050
o-Xylene	ND	0.025

LCS (B090869-BS1)

Prepared & Analyzed: 02/21/14

Benzene	4.09	5.00	81.9	70-130
Ethylbenzene	5.12	5.00	102	70-130
Isopropylbenzene (Cumene)	9.57	9.38	102	70-130
Methyl tert-Butyl Ether (MTBE)	5.20	5.00	104	70-130
Naphthalene	4.90	5.00	98.0	70-130
1,2,4-Trimethylbenzene	5.89	5.00	118	70-130
1,3,5-Trimethylbenzene	5.64	5.00	113	70-130
m&p-Xylene	10.8	10.0	108	70-130
o-Xylene	5.42	5.00	108	70-130

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-26	Surrogate outside of control limits.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Benzene	AIHA,FL,NJ,NY,VA,ME
Ethylbenzene	AIHA,FL,NJ,NY,VA,ME
Isopropylbenzene (Cumene)	AIHA,NJ,NY,ME
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,VA,ME
Naphthalene	NY,ME
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME
m&p-Xylene	AIHA,FL,NJ,NY,VA,ME
o-Xylene	AIHA,FL,NJ,NY,VA,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

www.contestlabs.com

Company Name: Concrete Consultants

Address: 2718 W. College Ave

Attention: Dave or Bob

Project Location: Donkey Pt

Sampled By: Jim Carthe

AIR SAMPLE CHAIN OF CUSTODY

RECORD

14B0525

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

Page 1 of 1

Telephone: (413) 234-3227
Project # 11-17988-02

Client PO #

DATA DELIVERY (check one):

☒ FAX ☐ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: dc00k@concreteconsultants.com

Format: ☒ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER

Date Sampled

Start Stop Total Minutes

Date Time Date Time Flow Rate M³/Min. or L/Min. Volume Liters or M³ Matrix Code

2-4-14 2:57 2-4-14 4:08 75 0.0133 1 56 X

2-4-14 1:06 2-4-14 2:21 75 0.0133 1 56 X

2-4-14 2:47 2-4-14 4:08 75 0.0133 1 56 X

CLIENT COMMENTS:

Special Requirements

Turnaround **

☐ 7-Day

☐ 10-Day

☐ Other

☒ RUSH *

☐ 24-Hr ☐ 48-Hr

☐ 72-Hr ☐ 96-Hr

*Approval Required

Regulations:

Data Enhancement/RCP? ☐ Y ☐ N

Enhanced Data Package ☐ Y ☐ N

(Surcharge Applies)

Required Detection Limits:

Other:

ANALYSIS REQUESTED

Hg

Please fill out completely, sign, date and retain the yellow copy for your record.

Summa canisters and flow controllers must be returned within 14 days of receipt or rental fee will apply.

Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.

Summa Canister ID

Flow Control ID

23 1546 305

23 1543 304

23 1544 304

Matrix Code:

SG= SOIL GAS

IA= INDOOR AIR

AMB=AMBIENT

SS= SUB SLAB

D= DUP

BL= BLANK

O= other

Media Codes:

S= summa can

TB= tedlar bag

P= PUF

T= tube

F= filter

C= cassette

O= Other

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified



801013120117

Ship (P/U) date:
Fri 2/14/2014 10:48 am
 57A US



Delivered
 Signed for by: JELYN

Actual delivery:
Wed 2/19/2014 10:12 am
 EAST LONGMEADOW, MA US

Travel History

Date/Time	Activity	Location
~ 2/19/2014 ~ Wednesday		
10:12 am	Delivered	EAST LONGMEADOW, MA
8:41 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
~ 2/18/2014 ~ Tuesday		
7:48 pm	At local FedEx facility	WINDSOR LOCKS, CT
6:59 am	At local FedEx facility Package not due for delivery	WINDSOR LOCKS, CT
~ 2/17/2014 ~ Monday		
9:28 pm	At local FedEx facility	WINDSOR LOCKS, CT
12:13 pm	At local FedEx facility Package not due for delivery	WINDSOR LOCKS, CT
7:15 am	At local FedEx facility	WINDSOR LOCKS, CT
~ 2/15/2014 ~ Saturday		
10:06 pm	At destination sort facility	EAST GRANBY, CT
6:43 pm	Departed FedEx location	NEWARK, NJ
~ 2/14/2014 ~ Friday		
7:25 pm	Left FedEx origin facility	STATE COLLEGE, PA
10:48 am	Picked up	STATE COLLEGE, PA

Local Scan Time

Shipment Facts

Tracking number	801013120117	Service	FedEx Express Saver
Weight	10 lbs	Dimensions	22x9x14 in.
Delivered To:	Shipping/Receiving	Total pieces	1
Total shipment weight	10 lbs / 4.5 kgs	Packaging	Your Packaging
Special handling section	Deliver Weekday		

Login Sample Receipt Checklist**(Rejection Criteria Listing - Using Sample Acceptance Policy)****Any False statement will be brought to the attention of Client**

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	NA	
3) Samples were received on ice.	NA	
4) Cooler Temperature is acceptable.	NA	
5) Cooler Temperature is recorded.	NA	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Doc #278 Rev. 4 January 2014

Who notified of False statements?

Log-In Technician Initials: PB

Date/Time:

Date/Time: 2.19.14

10:12



Page 1 of 2

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

AIR Only Receipt Checklist

CLIENT NAME: Converse Consultants RECEIVED BY: PB DATE: 2-19-14

1) Was the chain(s) of custody relinquished and signed? ☒ Yes ☐ No

2) Does the chain agree with the samples? ☒ Yes ☐ No

If not, explain:

3) Are all the samples in good condition? ☒ Yes ☐ No

If not, explain:

4) Are there any samples "On Hold"?

Yes ☐ No ☒

Stored where:

5) Are there any RUSH or SHORT HOLDING TIME samples?

Yes ☐ No ☒

Who was notified Date Time

6) Location where samples are stored:

Air Lab

Permission to subcontract samples? Yes ☐ No ☒
(Walk-in clients only) If not already approved.
Client Signature:

7) Number of cans Individually Certified or Batch Certified?

Containers received at Con-Test

	# of Containers	Types (Size, Duration)
Summa Cans (TO-14/TO-15/APH)	3	1 hr
Tedlar Bags		
TO-17 Tubes		
Regulators	3	1 hr
Restrictors		
Hg/Hopcalite Tube (NIOSH 6009)		
(TO-4A/ TO-10A/TO-13) PUFs		
PCB Florisil Tubes (NIOSH 5503)		
Air cassette		
PM 2.5/PM 10		
TO-11A Cartridges		
Other		

Unused Summas/PUF Media:

Unused Regulators:

1) Was all media (used & unused) checked into the WASP?

2) Were all returned summa cans, Restrictors & Regulators and PUF's documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments: 1546 3050
1543 3042
1544 3043

Meghan Kelley

From: Orion B. Cook [ocook@ConverseConsultants.com]
Sent: Monday, February 24, 2014 2:50 PM
To: Meghan Kelley
Subject: RE: 11-17788-02

Kelly,

List is:

- Benzene
- Ethylbenzene
- Isopropylbenzene (Cumene)
- Methyl tert-butyl ether (MTBE)
- Naphthalene
- Toluene
- Xylenes (total)
- 1,2,4-Timethylbenzene (1,2,4-TMB)
- 1,3,5-Timethylbenzene (1,3,5-TMB)

Let me know if you need anything else.

Gratefully,

Orion B. Cook, P.E.
Project Engineer

From: Meghan Kelley [mailto:mkelley@contestlabs.com]
Sent: Monday, February 24, 2014 2:47 PM
To: Orion B. Cook
Subject: 11-17788-02

Hi Orion,

Can you please send me the compound list included in the 2008 unleaded gas short list?

-Meghan

Meghan Kelley
Con-Test Analytical Laboratory
39 Spruce Street., East Longmeadow, MA 01028
Phone: 413.525.2332 x55 | Email: mkelley@contestlabs.com





2019 Ninth Avenue
PO Box 1925
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(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: OC
Number of Containers: 23

Reported:
12/20/13 09:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1R	3L12098-01	Water	Grab	12/11/13 13:35	12/12/13 15:05
MW-2	3L12098-02	Water	Grab	12/11/13 12:02	12/12/13 15:05
MW-3	3L12098-03	Water	Grab	12/11/13 11:33	12/12/13 15:05
MW-4	3L12098-04	Water	Grab	12/11/13 11:10	12/12/13 15:05
MW-5	3L12098-05	Water	Grab	12/11/13 12:35	12/12/13 15:05
MW-7	3L12098-06	Water	Grab	12/11/13 12:55	12/12/13 15:05
MW-8	3L12098-07	Water	Grab	12/11/13 10:40	12/12/13 15:05
MW-9	3L12098-08	Water	Grab	12/11/13 10:12	12/12/13 15:05
MW-12	3L12098-09	Water	Grab	12/11/13 14:15	12/12/13 15:05
SW-8	3L12098-10	Water	Grab	12/11/13 15:15	12/12/13 15:05
SW-12	3L12098-11	Water	Grab	12/11/13 15:05	12/12/13 15:05
TB	3L12098-12	Water	Trip Blank	12/11/13 00:00	12/12/13 15:05
MW-1M	3L12098-13	Water	Grab	12/11/13 13:40	12/12/13 15:05

Fairway Laboratories, Inc.

Reviewed and Submitted by:

Michael P. Tyler
Laboratory Director

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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 23
Reported: 12/20/13 09:45

Client Sample ID: MW-1R

Date/Time Sampled: 12/11/13 13:35

Laboratory Sample ID: 3L12098-01 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
---------	--------	-----	----	-------	----------------------	--------	-----------	------

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	643		20.0	ug/l	12/17/13 10:56	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	2100		20.0	ug/l	12/17/13 10:56	EPA 8260B	mtc	
Benzene	7400		200	ug/l	12/18/13 22:45	EPA 8260B	mtc	
Toluene	9960		200	ug/l	12/18/13 22:45	EPA 8260B	mtc	
Ethylbenzene	2380		20.0	ug/l	12/17/13 10:56	EPA 8260B	mtc	
Xylenes (total)	5550		400	ug/l	12/18/13 22:45	EPA 8260B	mtc	
Isopropylbenzene	387		20.0	ug/l	12/17/13 10:56	EPA 8260B	mtc	
Methyl tert-butyl ether	162		20.0	ug/l	12/17/13 10:56	EPA 8260B	mtc	
Naphthalene	424		20.0	ug/l	12/17/13 10:56	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	101 %		70-130		12/17/13 10:56	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	109 %		70-130		12/17/13 10:56	EPA 8260B	mtc	
Surrogate: Fluorobenzene	90.7 %		70-130		12/17/13 10:56	EPA 8260B	mtc	

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State Certifications: MD 275, WV 364

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 23
Reported: 12/20/13 09:45

Client Sample ID: MW-2

Date/Time Sampled: 12/11/13 12:02

Laboratory Sample ID: 3L12098-02 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
---------	--------	-----	----	-------	----------------------	--------	-----------	------

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	401		10.0	ug/l	12/16/13 21:18	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	1110		10.0	ug/l	12/16/13 21:18	EPA 8260B	wlm	
Benzene	164		10.0	ug/l	12/16/13 21:18	EPA 8260B	wlm	
Toluene	514		10.0	ug/l	12/16/13 21:18	EPA 8260B	wlm	
Ethylbenzene	634		10.0	ug/l	12/16/13 21:18	EPA 8260B	wlm	
Xylenes (total)	875		20.0	ug/l	12/16/13 21:18	EPA 8260B	wlm	
Isopropylbenzene	255		10.0	ug/l	12/16/13 21:18	EPA 8260B	wlm	
Methyl tert-butyl ether	<10.0		10.0	ug/l	12/16/13 21:18	EPA 8260B	wlm	
Naphthalene	265		10.0	ug/l	12/16/13 21:18	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	95.0 %		70-130		12/16/13 21:18	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	105 %		70-130		12/16/13 21:18	EPA 8260B	wlm	
Surrogate: Fluorobenzene	90.4 %		70-130		12/16/13 21:18	EPA 8260B	wlm	

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State Certifications: MD 275, WV 364

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 23
Reported:
12/20/13 09:45

Client Sample ID: MW-3

Date/Time Sampled: 12/11/13 11:33

Laboratory Sample ID: 3L12098-03 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
---------	--------	-----	----	-------	----------------------	--------	-----------	------

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<2.00		2.00	ug/l	12/17/13 00:47	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<2.00		2.00	ug/l	12/17/13 00:47	EPA 8260B	wlm	
Benzene	88.4		2.00	ug/l	12/17/13 00:47	EPA 8260B	wlm	
Toluene	<2.00		2.00	ug/l	12/17/13 00:47	EPA 8260B	wlm	
Ethylbenzene	3.24		2.00	ug/l	12/17/13 00:47	EPA 8260B	wlm	
Xylenes (total)	7.24		4.00	ug/l	12/17/13 00:47	EPA 8260B	wlm	
Isopropylbenzene	6.88		2.00	ug/l	12/17/13 00:47	EPA 8260B	wlm	
Methyl tert-butyl ether	348		10.0	ug/l	12/18/13 02:19	EPA 8260B	wlm	
Naphthalene	2.50		2.00	ug/l	12/17/13 00:47	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	97.6 %		70-130		12/17/13 00:47	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	99.9 %		70-130		12/17/13 00:47	EPA 8260B	wlm	
Surrogate: Fluorobenzene	89.3 %		70-130		12/17/13 00:47	EPA 8260B	wlm	

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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Converse

2738 West College Avenue

State College PA, 16801

Project Manager: Orion Cook

Project: ROSEMERGY'S

Project Number: [none]

Collector: CLIENT

Number of Containers: 23

Reported:

12/20/13 09:45

Client Sample ID: MW-4

Date/Time Sampled: 12/11/13 11:10

Laboratory Sample ID: 3L12098-04 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
---------	--------	-----	----	-------	----------------------	--------	-----------	------

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	703		10.0	ug/l	12/16/13 21:56	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	2750		100	ug/l	12/17/13 21:56	EPA 8260B	wlm	
Benzene	1000		10.0	ug/l	12/16/13 21:56	EPA 8260B	wlm	
Toluene	5550		100	ug/l	12/17/13 23:28	EPA 8260B	wlm	
Ethylbenzene	2250		100	ug/l	12/17/13 23:28	EPA 8260B	wlm	
Xylenes (total)	10900		200	ug/l	12/17/13 23:28	EPA 8260B	wlm	
Isopropylbenzene	387		10.0	ug/l	12/16/13 21:56	EPA 8260B	wlm	
Methyl tert-butyl ether	<10.0		10.0	ug/l	12/16/13 21:56	EPA 8260B	wlm	
Naphthalene	404		10.0	ug/l	12/16/13 21:56	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	101 %		70-130		12/16/13 21:56	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	105 %		70-130		12/16/13 21:56	EPA 8260B	wlm	
Surrogate: Fluorobenzene	91.7 %		70-130		12/16/13 21:56	EPA 8260B	wlm	

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Altoona, PA 16603
(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 23
Reported:
12/20/13 09:45

Client Sample ID: MW-5

Date/Time Sampled: 12/11/13 12:35

Laboratory Sample ID: 3L12098-05 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<2.00	2.00	ug/l	12/17/13 01:25	EPA 8260B	wlm
1,2,4-Trimethylbenzene	<2.00	2.00	ug/l	12/17/13 01:25	EPA 8260B	wlm
Benzene	2.44	2.00	ug/l	12/17/13 01:25	EPA 8260B	wlm
Toluene	<2.00	2.00	ug/l	12/17/13 01:25	EPA 8260B	wlm
Ethylbenzene	<2.00	2.00	ug/l	12/17/13 01:25	EPA 8260B	wlm
Xylenes (total)	<4.00	4.00	ug/l	12/17/13 01:25	EPA 8260B	wlm
Isopropylbenzene	<2.00	2.00	ug/l	12/17/13 01:25	EPA 8260B	wlm
Methyl tert-butyl ether	2.82	2.00	ug/l	12/17/13 01:25	EPA 8260B	wlm
Naphthalene	<2.00	2.00	ug/l	12/17/13 01:25	EPA 8260B	wlm
Surrogate: 4-Bromofluorobenzene	96.1 %	70-130		12/17/13 01:25	EPA 8260B	wlm
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		12/17/13 01:25	EPA 8260B	wlm
Surrogate: Fluorobenzene	91.4 %	70-130		12/17/13 01:25	EPA 8260B	wlm

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Converse

2738 West College Avenue

State College PA, 16801

Project Manager: Orion Cook

Project: ROSEMERGY'S

Project Number: [none]

Collector: CLIENT

Number of Containers: 23

Reported:

12/20/13 09:45

Client Sample ID: MW-7

Date/Time Sampled: 12/11/13 12:55

Laboratory Sample ID: 3L12098-06 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	12.1		1.00	ug/l	12/13/13 21:21	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	6.44		1.00	ug/l	12/13/13 21:21	EPA 8260B	wlm	
Benzene	5100		500	ug/l	12/16/13 19:36	EPA 8260B	wlm	2b
Toluene	54.8		1.00	ug/l	12/13/13 21:21	EPA 8260B	wlm	
Ethylbenzene	30.9		1.00	ug/l	12/13/13 21:21	EPA 8260B	wlm	
Xylenes (total)	33.3		2.00	ug/l	12/13/13 21:21	EPA 8260B	wlm	
Isopropylbenzene	54.9		1.00	ug/l	12/13/13 21:21	EPA 8260B	wlm	
Methyl tert-butyl ether	449		10.0	ug/l	12/16/13 20:14	EPA 8260B	wlm	2b
Naphthalene	78.9		1.00	ug/l	12/13/13 21:21	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	111 %		70-130		12/13/13 21:21	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	109 %		70-130		12/13/13 21:21	EPA 8260B	wlm	
Surrogate: Fluorobenzene	99.5 %		70-130		12/13/13 21:21	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 23
Reported: 12/20/13 09:45

Client Sample ID: MW-8

Date/Time Sampled: 12/11/13 10:40

Laboratory Sample ID: 3L12098-07 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	12/14/13 03:38	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	12/14/13 03:38	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	12/14/13 03:38	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	12/14/13 03:38	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	12/14/13 03:38	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	12/14/13 03:38	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	12/14/13 03:38	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/14/13 03:38	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	12/14/13 03:38	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	96.5 %		70-130		12/14/13 03:38	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	107 %		70-130		12/14/13 03:38	EPA 8260B	wlm	
Surrogate: Fluorobenzene	103 %		70-130		12/14/13 03:38	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 23
Reported: 12/20/13 09:45

Client Sample ID: MW-9

Date/Time Sampled: 12/11/13 10:12

Laboratory Sample ID: 3L12098-08 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00	1.00	ug/l	12/14/13 07:56	EPA 8260B	wlm
1,2,4-Trimethylbenzene	<1.00	1.00	ug/l	12/14/13 07:56	EPA 8260B	wlm
Benzene	16.9	1.00	ug/l	12/14/13 07:56	EPA 8260B	wlm
Toluene	<1.00	1.00	ug/l	12/14/13 07:56	EPA 8260B	wlm
Ethylbenzene	<1.00	1.00	ug/l	12/14/13 07:56	EPA 8260B	wlm
Xylenes (total)	<2.00	2.00	ug/l	12/14/13 07:56	EPA 8260B	wlm
Isopropylbenzene	<1.00	1.00	ug/l	12/14/13 07:56	EPA 8260B	wlm
Methyl tert-butyl ether	2.94	1.00	ug/l	12/14/13 07:56	EPA 8260B	wlm
Naphthalene	<1.00	1.00	ug/l	12/14/13 07:56	EPA 8260B	wlm
Surrogate: 4-Bromofluorobenzene	94.1 %	70-130		12/14/13 07:56	EPA 8260B	wlm
Surrogate: 1,2-Dichloroethane-d4	87.8 %	70-130		12/14/13 07:56	EPA 8260B	wlm
Surrogate: Fluorobenzene	105 %	70-130		12/14/13 07:56	EPA 8260B	wlm

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 23
Reported: 12/20/13 09:45

Client Sample ID: MW-12

Date/Time Sampled: 12/11/13 14:15

Laboratory Sample ID: 3L12098-09 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	12/14/13 08:23	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	12/14/13 08:23	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	12/14/13 08:23	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	12/14/13 08:23	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	12/14/13 08:23	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	12/14/13 08:23	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	12/14/13 08:23	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/14/13 08:23	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	12/14/13 08:23	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	94.4 %		70-130		12/14/13 08:23	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	88.9 %		70-130		12/14/13 08:23	EPA 8260B	wlm	
Surrogate: Fluorobenzene	107 %		70-130		12/14/13 08:23	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 23
Reported:
12/20/13 09:45

Client Sample ID: SW-8

Date/Time Sampled: 12/11/13 15:15

Laboratory Sample ID: 3L12098-10 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	12/14/13 08:51	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	12/14/13 08:51	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	12/14/13 08:51	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	12/14/13 08:51	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	12/14/13 08:51	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	12/14/13 08:51	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	12/14/13 08:51	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/14/13 08:51	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	12/14/13 08:51	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	94.7 %		70-130		12/14/13 08:51	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	89.5 %		70-130		12/14/13 08:51	EPA 8260B	wlm	
Surrogate: Fluorobenzene	109 %		70-130		12/14/13 08:51	EPA 8260B	wlm	

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State Certifications: MD 275, WV 364

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 23
Reported:
12/20/13 09:45

Client Sample ID: SW-12

Date/Time Sampled: 12/11/13 15:05

Laboratory Sample ID: 3L12098-11 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	12/14/13 09:48	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	12/14/13 09:48	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	12/14/13 09:48	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	12/14/13 09:48	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	12/14/13 09:48	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	12/14/13 09:48	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	12/14/13 09:48	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/14/13 09:48	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	12/14/13 09:48	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	97.1 %		70-130		12/14/13 09:48	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	103 %		70-130		12/14/13 09:48	EPA 8260B	wlm	
Surrogate: Fluorobenzene	108 %		70-130		12/14/13 09:48	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 23
Reported: 12/20/13 09:45

Client Sample ID: TB

Date/Time Sampled: 12/11/13 00:00

Laboratory Sample ID: 3L12098-12 (Water/Trip Blank)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	12/14/13 03:00	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	12/14/13 03:00	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	12/14/13 03:00	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	12/14/13 03:00	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	12/14/13 03:00	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	12/14/13 03:00	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	12/14/13 03:00	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/14/13 03:00	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	12/14/13 03:00	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	96.8 %		70-130		12/14/13 03:00	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	104 %		70-130		12/14/13 03:00	EPA 8260B	wlm	
Surrogate: Fluorobenzene	102 %		70-130		12/14/13 03:00	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 23
Reported: 12/20/13 09:45

Client Sample ID: MW-1M

Date/Time Sampled: 12/11/13 13:40

Laboratory Sample ID: 3L12098-13 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	625		20.0	ug/l	12/17/13 11:34	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	2050		20.0	ug/l	12/17/13 11:34	EPA 8260B	mtc	
Benzene	7610		200	ug/l	12/18/13 23:22	EPA 8260B	mtc	
Toluene	10000		200	ug/l	12/18/13 23:22	EPA 8260B	mtc	
Ethylbenzene	2350		20.0	ug/l	12/17/13 11:34	EPA 8260B	mtc	
Xylenes (total)	5390		400	ug/l	12/18/13 23:22	EPA 8260B	mtc	
Isopropylbenzene	386		20.0	ug/l	12/17/13 11:34	EPA 8260B	mtc	
Methyl tert-butyl ether	166		20.0	ug/l	12/17/13 11:34	EPA 8260B	mtc	
Naphthalene	450		20.0	ug/l	12/17/13 11:34	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	107 %		70-130		12/17/13 11:34	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	108 %		70-130		12/17/13 11:34	EPA 8260B	mtc	
Surrogate: Fluorobenzene	90.2 %		70-130		12/17/13 11:34	EPA 8260B	mtc	

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Converse	Project: ROSEMERGY'S	
2738 West College Avenue	Project Number: [none]	Reported:
State College PA, 16801	Collector: CLIENT	12/20/13 09:45
Project Manager: Orion Cook	Number of Containers: 23	

Notes

2b The spike recovery was outside acceptance limits for the MS and/or MSD.

Definitions

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory.

MBAS, calculated as LAS, mol wt 320

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

* P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.

< Represents "less than" - indicates that the result was less than the reporting limit.

MDL Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any reported result values that are less than the RL are considered estimated values.

RL Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

321209827

SAMPLING, CHAIN OF CUSTODY AND ANALYSES RECORD FOR SOIL, GROUNDWATER AND AIR MONITORING PA

SAMPLING PLACE Rosemeigs CC FIELD REP OBC FIRM RESPONSIBLE FOR SAMPLING Converse Consultants
 OWNER Woodluch DATE 12-11-13 2738 West College Avenue
 ADDRESS Hawley, PA WEATHER Clear 20's State College, Pennsylvania 16801
 PROJECT NAME Rosemeigs PROJECT NO. 11-17388-02 814-234-3223
 ATTENTION DJS or OBC 814-234-3255



STATION NO. OR SAMPLE IDENT.	TIME	DEPTH TO WATER (FEET) DATUM	PURGING METHOD	SAMPLE DEPTH (FT) INTERVAL	AMOUNT PURGED (GALS)	SAMPLING METHOD	CONTAINER DESCRIPTION										pH	SPECIFIC CONDUCTANCE (µ mhos/cm.)	TEMP. °C	ANALYSIS REQUEST / COMMENTS
1 MW-1K	1:35	9.90	Boiler		2.5	Boiler	40 mL HCL										6.3	1629	13.3	(2008 Unleaded Gas)
2 MW-2	12:02	5.90			4												6.4	2780	12.4	(Start List)
3 MW-3	11:33	3.82			5												6.8	2156	9.5	
4 MW-4	11:10	4.41			5												6.9	1892	10.3	
5 MW-5	12:35	4.92			5												7.4	1920	8.5	
6 MW-7	12:55	12.59			1												7.0	2750	12.8	
7 MW-8	10:40	3.14			5.5												7.9	1209	9.0	
8 MW-9	10:12	1.14			6.5												6.9	2390	8.3	
9 MW-12	2:15	5.46			4.5												6.7	415	9.9	
10 SW-8	3:15	NA			NA												7.8	149	8.9	
11 SW-12	3:05	NA			NA												7.6	154	7.6	
12 TB																				

RELINQUISHED BY (SIGNATURE) [Signature] DATE 12-12-13 TIME 1300 RECEIVED BY (SIGNATURE) [Signature]

RELINQUISHED BY (SIGNATURE) [Signature] DATE 12/12/13 TIME 1505 RECEIVED BY (SIGNATURE) [Signature]

RELINQUISHED BY (SIGNATURE) [Signature] DATE 12/12/13 TIME 1505 RECEIVED BY (SIGNATURE) [Signature]

RECEIVING LABORATORY ADDRESS Fairway Labs

DATE RECEIVED 12/12/13 TIME 1505

ALL SAMPLES REC'D. INTACT ☒ YES ☐ NO

LIST SAMPLES MISSING/DAMAGED None

ACCEPTED BY [Signature]



2019 Ninth Avenue
PO Box 1925
Altoona, PA 16603
(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 24
Reported:
11/20/13 10:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1R	3K11046-01	Water	Grab	11/08/13 13:48	11/11/13 14:45
MW-2	3K11046-02	Water	Grab	11/08/13 12:50	11/11/13 14:45
MW-3	3K11046-03	Water	Grab	11/08/13 12:25	11/11/13 14:45
MW-4	3K11046-04	Water	Grab	11/08/13 13:25	11/11/13 14:45
MW-5	3K11046-05	Water	Grab	11/08/13 11:55	11/11/13 14:45
MW-7	3K11046-06	Water	Grab	11/08/13 10:50	11/11/13 14:45
MW-8	3K11046-07	Water	Grab	11/08/13 10:00	11/11/13 14:45
MW-9	3K11046-08	Water	Grab	11/08/13 10:25	11/11/13 14:45
MW-12	3K11046-09	Water	Grab	11/08/13 11:35	11/11/13 14:45
MW-1M	3K11046-10	Water	Grab	11/08/13 13:50	11/11/13 14:45
OW-1	3K11046-11	Water	Grab	11/08/13 14:50	11/11/13 14:45
TB	3K11046-12	Water	Trip Blank	11/08/13 00:00	11/11/13 14:45

Fairway Laboratories, Inc.

Reviewed and Submitted by:

Michael P. Tyler
Laboratory Director

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 24

Reported:
11/20/13 10:29

Client Sample ID: MW-1R

Date/Time Sampled: 11/08/13 13:48

Laboratory Sample ID: 3K11046-01 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	310		250	ug/l	11/14/13 01:24	EPA 8260B	MTC	
1,2,4-Trimethylbenzene	978		250	ug/l	11/14/13 01:24	EPA 8260B	MTC	
Benzene	6410		250	ug/l	11/14/13 01:24	EPA 8260B	MTC	
Toluene	15700		250	ug/l	11/14/13 01:24	EPA 8260B	MTC	
Ethylbenzene	1540		250	ug/l	11/14/13 01:24	EPA 8260B	MTC	
Xylenes (total)	8980		500	ug/l	11/14/13 01:24	EPA 8260B	MTC	
Isopropylbenzene	111		100	ug/l	11/14/13 14:48	EPA 8260B	MTC	
Methyl tert-butyl ether	195		100	ug/l	11/14/13 14:48	EPA 8260B	MTC	
Naphthalene	265		100	ug/l	11/14/13 14:48	EPA 8260B	MTC	
Surrogate: 4-Bromofluorobenzene	101 %		70-130		11/13/13 05:25	EPA 8260B	MTC	
Surrogate: 1,2-Dichloroethane-d4	97.0 %		70-130		11/13/13 05:25	EPA 8260B	MTC	
Surrogate: Fluorobenzene	86.7 %		70-130		11/13/13 05:25	EPA 8260B	MTC	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 24

Reported:
11/20/13 10:29

Client Sample ID: MW-2

Date/Time Sampled: 11/08/13 12:50

Laboratory Sample ID: 3K11046-02 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	406		50.0	ug/l	11/12/13 22:33	EPA 8260B	MTC	
1,2,4-Trimethylbenzene	1200		50.0	ug/l	11/12/13 22:33	EPA 8260B	MTC	
Benzene	273		50.0	ug/l	11/12/13 22:33	EPA 8260B	MTC	
Toluene	958		50.0	ug/l	11/12/13 22:33	EPA 8260B	MTC	
Ethylbenzene	828		50.0	ug/l	11/12/13 22:33	EPA 8260B	MTC	
Xylenes (total)	1380		100	ug/l	11/12/13 22:33	EPA 8260B	MTC	
Isopropylbenzene	227		50.0	ug/l	11/12/13 22:33	EPA 8260B	MTC	
Methyl tert-butyl ether	<50.0		50.0	ug/l	11/12/13 22:33	EPA 8260B	MTC	
Naphthalene	240		50.0	ug/l	11/12/13 22:33	EPA 8260B	MTC	
Surrogate: 4-Bromofluorobenzene	98.0 %		70-130		11/12/13 22:33	EPA 8260B	MTC	
Surrogate: 1,2-Dichloroethane-d4	97.6 %		70-130		11/12/13 22:33	EPA 8260B	MTC	
Surrogate: Fluorobenzene	91.0 %		70-130		11/12/13 22:33	EPA 8260B	MTC	

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Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 24

Reported:
11/20/13 10:29

Client Sample ID: MW-3

Date/Time Sampled: 11/08/13 12:25

Laboratory Sample ID: 3K11046-03 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<5.00		5.00	ug/l	11/14/13 00:46	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	5.15		5.00	ug/l	11/14/13 00:46	EPA 8260B	mtc	
Benzene	91.0		5.00	ug/l	11/14/13 00:46	EPA 8260B	mtc	
Toluene	<5.00		5.00	ug/l	11/14/13 00:46	EPA 8260B	mtc	
Ethylbenzene	<5.00		5.00	ug/l	11/14/13 00:46	EPA 8260B	mtc	
Xylenes (total)	<10.0		10.0	ug/l	11/14/13 00:46	EPA 8260B	mtc	
Isopropylbenzene	12.6		5.00	ug/l	11/14/13 00:46	EPA 8260B	mtc	
Methyl tert-butyl ether	375		5.00	ug/l	11/14/13 00:46	EPA 8260B	mtc	
Naphthalene	<5.00		5.00	ug/l	11/14/13 00:46	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	95.0 %		70-130		11/14/13 00:46	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	93.4 %		70-130		11/14/13 00:46	EPA 8260B	mtc	
Surrogate: Fluorobenzene	87.8 %		70-130		11/14/13 00:46	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 24

Reported:
11/20/13 10:29

Client Sample ID: MW-4

Date/Time Sampled: 11/08/13 13:25

Laboratory Sample ID: 3K11046-04 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	736		10.0	ug/l	11/13/13 00:25	EPA 8260B	MTC	
1,2,4-Trimethylbenzene	2000		100	ug/l	11/14/13 00:08	EPA 8260B	MTC	
Benzene	3040		100	ug/l	11/14/13 00:08	EPA 8260B	MTC	
Toluene	2860		100	ug/l	11/14/13 00:08	EPA 8260B	MTC	
Ethylbenzene	2290		100	ug/l	11/14/13 00:08	EPA 8260B	MTC	
Xylenes (total)	5540		200	ug/l	11/14/13 00:08	EPA 8260B	MTC	
Isopropylbenzene	433		10.0	ug/l	11/13/13 00:25	EPA 8260B	MTC	
Methyl tert-butyl ether	56.9		10.0	ug/l	11/13/13 00:25	EPA 8260B	MTC	
Naphthalene	604		10.0	ug/l	11/13/13 00:25	EPA 8260B	MTC	
Surrogate: 4-Bromofluorobenzene	98.3 %		70-130		11/13/13 00:25	EPA 8260B	MTC	
Surrogate: 1,2-Dichloroethane-d4	95.9 %		70-130		11/13/13 00:25	EPA 8260B	MTC	
Surrogate: Fluorobenzene	89.9 %		70-130		11/13/13 00:25	EPA 8260B	MTC	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 24

Reported:
11/20/13 10:29

Client Sample ID: MW-5

Date/Time Sampled: 11/08/13 11:55

Laboratory Sample ID: 3K11046-05 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<10.0		10.0	ug/l	11/13/13 01:03	EPA 8260B	MTC	
1,2,4-Trimethylbenzene	13.6		10.0	ug/l	11/13/13 01:03	EPA 8260B	MTC	
Benzene	89.5		10.0	ug/l	11/13/13 01:03	EPA 8260B	MTC	
Toluene	<10.0		10.0	ug/l	11/13/13 01:03	EPA 8260B	MTC	
Ethylbenzene	80.7		10.0	ug/l	11/13/13 01:03	EPA 8260B	MTC	
Xylenes (total)	<20.0		20.0	ug/l	11/13/13 01:03	EPA 8260B	MTC	
Isopropylbenzene	25.3		10.0	ug/l	11/13/13 01:03	EPA 8260B	MTC	
Methyl tert-butyl ether	12.7		10.0	ug/l	11/13/13 01:03	EPA 8260B	MTC	
Naphthalene	<10.0		10.0	ug/l	11/13/13 01:03	EPA 8260B	MTC	
Surrogate: 4-Bromofluorobenzene	94.6 %		70-130		11/13/13 01:03	EPA 8260B	MTC	
Surrogate: 1,2-Dichloroethane-d4	96.8 %		70-130		11/13/13 01:03	EPA 8260B	MTC	
Surrogate: Fluorobenzene	89.6 %		70-130		11/13/13 01:03	EPA 8260B	MTC	

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Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 24

Reported:
11/20/13 10:29

Client Sample ID: MW-7

Date/Time Sampled: 11/08/13 10:50

Laboratory Sample ID: 3K11046-06 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	8.50		2.00	ug/l	11/14/13 17:55	EPA 8260B	MTC	
1,2,4-Trimethylbenzene	5.22		2.00	ug/l	11/14/13 17:55	EPA 8260B	MTC	
Benzene	7480		100	ug/l	11/16/13 02:22	EPA 8260B	MTC	
Toluene	62.7		2.00	ug/l	11/14/13 17:55	EPA 8260B	MTC	
Ethylbenzene	34.3		2.00	ug/l	11/14/13 17:55	EPA 8260B	MTC	
Xylenes (total)	31.8		4.00	ug/l	11/14/13 17:55	EPA 8260B	MTC	
Isopropylbenzene	43.0		2.00	ug/l	11/14/13 17:55	EPA 8260B	MTC	
Methyl tert-butyl ether	546		100	ug/l	11/16/13 02:22	EPA 8260B	MTC	
Naphthalene	43.7		2.00	ug/l	11/14/13 17:55	EPA 8260B	MTC	
Surrogate: 4-Bromofluorobenzene	98.6 %		70-130		11/14/13 17:55	EPA 8260B	MTC	
Surrogate: 1,2-Dichloroethane-d4	97.1 %		70-130		11/14/13 17:55	EPA 8260B	MTC	
Surrogate: Fluorobenzene	85.8 %		70-130		11/14/13 17:55	EPA 8260B	MTC	

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Converse
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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 24

Reported:
11/20/13 10:29

Client Sample ID: MW-8

Date/Time Sampled: 11/08/13 10:00

Laboratory Sample ID: 3K11046-07 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<2.00		2.00	ug/l	11/15/13 20:46	EPA 8260B	MTC	
1,2,4-Trimethylbenzene	<2.00		2.00	ug/l	11/15/13 20:46	EPA 8260B	MTC	
Benzene	<2.00		2.00	ug/l	11/15/13 20:46	EPA 8260B	MTC	
Toluene	<2.00		2.00	ug/l	11/15/13 20:46	EPA 8260B	MTC	
Ethylbenzene	<2.00		2.00	ug/l	11/15/13 20:46	EPA 8260B	MTC	
Xylenes (total)	<4.00		4.00	ug/l	11/15/13 20:46	EPA 8260B	MTC	
Isopropylbenzene	<2.00		2.00	ug/l	11/15/13 20:46	EPA 8260B	MTC	
Methyl tert-butyl ether	2.70		2.00	ug/l	11/15/13 20:46	EPA 8260B	MTC	
Naphthalene	<2.00		2.00	ug/l	11/15/13 20:46	EPA 8260B	MTC	
Surrogate: 4-Bromofluorobenzene	95.1 %		70-130		11/15/13 20:46	EPA 8260B	MTC	
Surrogate: 1,2-Dichloroethane-d4	89.8 %		70-130		11/15/13 20:46	EPA 8260B	MTC	
Surrogate: Fluorobenzene	83.5 %		70-130		11/15/13 20:46	EPA 8260B	MTC	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 24

Reported:
11/20/13 10:29

Client Sample ID: MW-9

Date/Time Sampled: 11/08/13 10:25

Laboratory Sample ID: 3K11046-08 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<2.00	2.00	ug/l	11/14/13 16:03	EPA 8260B	MTC
1,2,4-Trimethylbenzene	<2.00	2.00	ug/l	11/14/13 16:03	EPA 8260B	MTC
Benzene	13.0	2.00	ug/l	11/14/13 16:03	EPA 8260B	MTC
Toluene	<2.00	2.00	ug/l	11/14/13 16:03	EPA 8260B	MTC
Ethylbenzene	<2.00	2.00	ug/l	11/14/13 16:03	EPA 8260B	MTC
Xylenes (total)	<4.00	4.00	ug/l	11/14/13 16:03	EPA 8260B	MTC
Isopropylbenzene	<2.00	2.00	ug/l	11/14/13 16:03	EPA 8260B	MTC
Methyl tert-butyl ether	8.00	2.00	ug/l	11/14/13 16:03	EPA 8260B	MTC
Naphthalene	<2.00	2.00	ug/l	11/14/13 16:03	EPA 8260B	MTC
Surrogate: 4-Bromofluorobenzene	92.7 %	70-130		11/14/13 16:03	EPA 8260B	MTC
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		11/14/13 16:03	EPA 8260B	MTC
Surrogate: Fluorobenzene	86.4 %	70-130		11/14/13 16:03	EPA 8260B	MTC

Fairway Laboratories, Inc.

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PO Box 1925
Altoona, PA 16603
(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 24

Reported:
11/20/13 10:29

Client Sample ID: MW-12

Date/Time Sampled: 11/08/13 11:35

Laboratory Sample ID: 3K11046-09 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<2.00		2.00	ug/l	11/14/13 16:41	EPA 8260B	MTC	
1,2,4-Trimethylbenzene	<2.00		2.00	ug/l	11/14/13 16:41	EPA 8260B	MTC	
Benzene	2.12		2.00	ug/l	11/14/13 16:41	EPA 8260B	MTC	
Toluene	6.64		2.00	ug/l	11/14/13 16:41	EPA 8260B	MTC	
Ethylbenzene	<2.00		2.00	ug/l	11/14/13 16:41	EPA 8260B	MTC	
Xylenes (total)	4.10		4.00	ug/l	11/14/13 16:41	EPA 8260B	MTC	
Isopropylbenzene	<2.00		2.00	ug/l	11/14/13 16:41	EPA 8260B	MTC	
Methyl tert-butyl ether	<2.00		2.00	ug/l	11/14/13 16:41	EPA 8260B	MTC	
Naphthalene	<2.00		2.00	ug/l	11/14/13 16:41	EPA 8260B	MTC	
Surrogate: 4-Bromofluorobenzene	93.6 %		70-130		11/14/13 16:41	EPA 8260B	MTC	
Surrogate: 1,2-Dichloroethane-d4	96.7 %		70-130		11/14/13 16:41	EPA 8260B	MTC	
Surrogate: Fluorobenzene	86.0 %		70-130		11/14/13 16:41	EPA 8260B	MTC	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 24

Reported:
11/20/13 10:29

Client Sample ID: MW-1M

Date/Time Sampled: 11/08/13 13:50

Laboratory Sample ID: 3K11046-10 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	646		10.0	ug/l	11/13/13 01:40	EPA 8260B	MTC	
1,2,4-Trimethylbenzene	1020		250	ug/l	11/14/13 02:02	EPA 8260B	MTC	
Benzene	6620		250	ug/l	11/14/13 02:02	EPA 8260B	MTC	
Toluene	16100		250	ug/l	11/14/13 02:02	EPA 8260B	MTC	
Ethylbenzene	1580		250	ug/l	11/14/13 02:02	EPA 8260B	MTC	
Xylenes (total)	9060		500	ug/l	11/14/13 02:02	EPA 8260B	MTC	
Isopropylbenzene	405		10.0	ug/l	11/13/13 01:40	EPA 8260B	MTC	
Methyl tert-butyl ether	269		10.0	ug/l	11/13/13 01:40	EPA 8260B	MTC	
Naphthalene	693		10.0	ug/l	11/13/13 01:40	EPA 8260B	MTC	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130		11/13/13 01:40	EPA 8260B	MTC	
Surrogate: 1,2-Dichloroethane-d4	94.1 %		70-130		11/13/13 01:40	EPA 8260B	MTC	
Surrogate: Fluorobenzene	91.2 %		70-130		11/13/13 01:40	EPA 8260B	MTC	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 24

Reported:
11/20/13 10:29

Client Sample ID: OW-1

Date/Time Sampled: 11/08/13 14:50

Laboratory Sample ID: 3K11046-11 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<2.00		2.00	ug/l	11/14/13 17:18	EPA 8260B	MTC	
1,2,4-Trimethylbenzene	<2.00		2.00	ug/l	11/14/13 17:18	EPA 8260B	MTC	
Benzene	<2.00		2.00	ug/l	11/14/13 17:18	EPA 8260B	MTC	
Toluene	<2.00		2.00	ug/l	11/14/13 17:18	EPA 8260B	MTC	
Ethylbenzene	<2.00		2.00	ug/l	11/14/13 17:18	EPA 8260B	MTC	
Xylenes (total)	<4.00		4.00	ug/l	11/14/13 17:18	EPA 8260B	MTC	
Isopropylbenzene	<2.00		2.00	ug/l	11/14/13 17:18	EPA 8260B	MTC	
Methyl tert-butyl ether	<2.00		2.00	ug/l	11/14/13 17:18	EPA 8260B	MTC	
Naphthalene	<2.00		2.00	ug/l	11/14/13 17:18	EPA 8260B	MTC	
Surrogate: 4-Bromofluorobenzene	92.5 %		70-130		11/14/13 17:18	EPA 8260B	MTC	
Surrogate: 1,2-Dichloroethane-d4	95.4 %		70-130		11/14/13 17:18	EPA 8260B	MTC	
Surrogate: Fluorobenzene	86.1 %		70-130		11/14/13 17:18	EPA 8260B	MTC	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 24

Reported:
11/20/13 10:29

Client Sample ID: TB

Date/Time Sampled: 11/08/13 00:00

Laboratory Sample ID: 3K11046-12 (Water/Trip Blank)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	11/14/13 02:20	EPA 8260B	MTC	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	11/14/13 02:20	EPA 8260B	MTC	
Benzene	<1.00		1.00	ug/l	11/14/13 02:20	EPA 8260B	MTC	
Toluene	<1.00		1.00	ug/l	11/14/13 02:20	EPA 8260B	MTC	
Ethylbenzene	<1.00		1.00	ug/l	11/14/13 02:20	EPA 8260B	MTC	
Xylenes (total)	<2.00		2.00	ug/l	11/14/13 02:20	EPA 8260B	MTC	
Isopropylbenzene	<1.00		1.00	ug/l	11/14/13 02:20	EPA 8260B	MTC	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/14/13 02:20	EPA 8260B	MTC	
Naphthalene	<1.00		1.00	ug/l	11/14/13 02:20	EPA 8260B	MTC	
Surrogate: 4-Bromofluorobenzene	97.1 %		70-130		11/14/13 02:20	EPA 8260B	MTC	
Surrogate: 1,2-Dichloroethane-d4	96.3 %		70-130		11/14/13 02:20	EPA 8260B	MTC	
Surrogate: Fluorobenzene	88.9 %		70-130		11/14/13 02:20	EPA 8260B	MTC	

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State Certifications: MD 275, WV 364

Converse

Project: ROSEMERGY'S

2738 West College Avenue

Project Number: 11-17788-02

Reported:

State College PA, 16801

Collector: OC

11/20/13 10:29

Project Manager: Orion Cook

Number of Containers: 24

Definitions

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory.

MBAS, calculated as LAS, mol wt 320

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

* P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.

< Represents "less than" - indicates that the result was less than the reporting limit.

MDL Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any reported result values that are less than the RL are considered estimated values.

RL Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

SAMPLING, CHAIN OF CUSTODY AND ANALYSES RECORD FOR SOIL, GROUNDWATER AND AIR MONITORING PA

SAMPLING PLACE Rosemery's
 OWNER Woodloch
 ADDRESS Wendley, PA
 PROJECT NAME Rosemery's
 CC FIELD REP ORC
 DATE 11-8-13
 WEATHER P. Cloudy 40's
 PROJECT NO 11-17288-02
 ATTENTION Deas or ORC



FIRM RESPONSIBLE FOR SAMPLING
Converse Consultants
 2738 West College Avenue
 State College, Pennsylvania 16801
 814-234-3223
 Fax 814-234-3265

3K4104601

STATION NO. OR SAMPLE IDENT.	TIME	DEPTH TO WATER (FEET) DATUM	PURGING METHOD	SAMPLE DEPTH (FT.) INTERVAL	AMOUNT PURGED (GALS)	SAMPLING METHOD	CONTAINER DESCRIPTION										pH	SPECIFIC CONDUCTANCE (μ mhos/cm.)	TEMP. °C	ANALYSIS REQUEST / COMMENTS
							1	2	3	4	5	6	7	8	9	10				
1 MLW-1R	1:48	10.89	boiler		1.5	boiler	40ml HCL										6.3	1882	16.9	(2008 calculated Gas)
2 MLW-2	12:50	8.62			3												6.4	2120	16.1	(start list)
3 MLW-3	12:25	6.73			3.5												5.6	2270	14.8	
4 MLW-4	1:25	7.36			3.5												6.6	2250	15.7	
5 MLW-5	11:35	7.82			3												7.1	1252	16.4	
6 MLW-6	10:50	12.48			0.5												6.7	2620	16.1	
7 MLW-7	10:00	6.24			4												6.9	1235	13.5	
8 MLW-8	10:25	3.96			5												6.4	3260	13.0	
9 MLW-9	11:35	9.40			2.5												6.9	509	13.8	
10 MLW-10	1:50	10.87			1.5												6.3	1382	16.9	
11 ALW-1	2:50	14.95			—												8.1	556	16.3	
12 TB																				

RELINQUISHED BY (SIGNATURE) <u>[Signature]</u>	DATE <u>11-11-13</u>	TIME <u>1330</u>	RECEIVED BY (SIGNATURE) <u>[Signature]</u>
RELINQUISHED BY (SIGNATURE) <u>[Signature]</u>	DATE <u>11-11-13</u>	TIME <u>1535</u>	RECEIVED BY (SIGNATURE) <u>[Signature]</u>

RECEIVING LABORATORY ADDRESS <u>Fairbury Labs</u>	DATE RECEIVED <u>11-11-13</u>	TIME <u>15:45</u>
ALL SAMPLES RECD. INTACT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LIST SAMPLES MISSING/DAMAGED	
ACCEPTED BY		



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PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31
Reported:
06/26/14 12:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1R	4F13067-01	Water	Grab	06/12/14 09:56	06/13/14 14:35
MW-3	4F13067-02	Water	Grab	06/12/14 10:45	06/13/14 14:35
MW-4	4F13067-03	Water	Grab	06/12/14 10:57	06/13/14 14:35
MW-5	4F13067-04	Water	Grab	06/12/14 10:21	06/13/14 14:35
MW-7	4F13067-05	Water	Grab	06/12/14 09:35	06/13/14 14:35
MW-8	4F13067-06	Water	Grab	06/12/14 12:47	06/13/14 14:35
MW-9	4F13067-07	Water	Grab	06/12/14 13:15	06/13/14 14:35
MW-10	4F13067-08	Water	Grab	06/12/14 14:02	06/13/14 14:35
MW-11	4F13067-09	Water	Grab	06/12/14 14:20	06/13/14 14:35
MW-12	4F13067-10	Water	Grab	06/12/14 11:24	06/13/14 14:35
MW-13	4F13067-11	Water	Grab	06/12/14 12:25	06/13/14 14:35
MW-14	4F13067-12	Water	Grab	06/12/14 12:15	06/13/14 14:35
MW-15	4F13067-13	Water	Grab	06/12/14 11:45	06/13/14 14:35
MW-16	4F13067-14	Water	Grab	06/12/14 13:39	06/13/14 14:35
MW-16M	4F13067-15	Water	Grab	06/12/14 13:30	06/13/14 14:35
TB	4F13067-16	Water	Trip Blank	06/12/14 00:00	06/13/14 14:35

Fairway Laboratories, Inc.

Reviewed and Submitted by:

Michael P. Tyler
Laboratory Director

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
06/26/14 12:49

Client Sample ID: MW-1R

Date/Time Sampled: 06/12/14 09:56

Laboratory Sample ID: 4F13067-01 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	365		50.0	ug/l	06/17/14 07:45	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	1300		50.0	ug/l	06/17/14 07:45	EPA 8260B	mtc	
Benzene	7170		100	ug/l	06/17/14 20:54	EPA 8260B	mtc	
Toluene	10200		100	ug/l	06/17/14 20:54	EPA 8260B	mtc	
Ethylbenzene	1770		50.0	ug/l	06/17/14 07:45	EPA 8260B	mtc	
Xylenes (total)	8640		100	ug/l	06/17/14 07:45	EPA 8260B	mtc	
Isopropylbenzene	213		50.0	ug/l	06/17/14 07:45	EPA 8260B	mtc	
Methyl tert-butyl ether	82.0		50.0	ug/l	06/17/14 07:45	EPA 8260B	mtc	
Naphthalene	254		50.0	ug/l	06/17/14 07:45	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97.7 %		70-130		06/17/14 07:45	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	103 %		70-130		06/17/14 07:45	EPA 8260B	mtc	
Surrogate: Fluorobenzene	98.2 %		70-130		06/17/14 07:45	EPA 8260B	mtc	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
06/26/14 12:49

Client Sample ID: MW-3

Date/Time Sampled: 06/12/14 10:45

Laboratory Sample ID: 4F13067-02 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<10.0		10.0	ug/l	06/17/14 10:54	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	38.5		10.0	ug/l	06/17/14 10:54	EPA 8260B	mtc	
Benzene	788		10.0	ug/l	06/17/14 10:54	EPA 8260B	mtc	
Toluene	62.8		10.0	ug/l	06/17/14 10:54	EPA 8260B	mtc	
Ethylbenzene	56.8		10.0	ug/l	06/17/14 10:54	EPA 8260B	mtc	
Xylenes (total)	122		20.0	ug/l	06/17/14 10:54	EPA 8260B	mtc	
Isopropylbenzene	44.4		10.0	ug/l	06/17/14 10:54	EPA 8260B	mtc	
Methyl tert-butyl ether	1180		10.0	ug/l	06/17/14 10:54	EPA 8260B	mtc	
Naphthalene	<10.0		10.0	ug/l	06/17/14 10:54	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97.0 %		70-130		06/17/14 10:54	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	103 %		70-130		06/17/14 10:54	EPA 8260B	mtc	
Surrogate: Fluorobenzene	98.3 %		70-130		06/17/14 10:54	EPA 8260B	mtc	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
06/26/14 12:49

Client Sample ID: MW-4

Date/Time Sampled: 06/12/14 10:57

Laboratory Sample ID: 4F13067-03 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	358		20.0	ug/l	06/17/14 09:00	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	1250		20.0	ug/l	06/17/14 09:00	EPA 8260B	mtc	
Benzene	301		20.0	ug/l	06/17/14 09:00	EPA 8260B	mtc	
Toluene	2060		20.0	ug/l	06/17/14 09:00	EPA 8260B	mtc	
Ethylbenzene	1050		20.0	ug/l	06/17/14 09:00	EPA 8260B	mtc	
Xylenes (total)	4720		40.0	ug/l	06/17/14 09:00	EPA 8260B	mtc	
Isopropylbenzene	178		20.0	ug/l	06/17/14 09:00	EPA 8260B	mtc	
Methyl tert-butyl ether	<20.0		20.0	ug/l	06/17/14 09:00	EPA 8260B	mtc	
Naphthalene	205		20.0	ug/l	06/17/14 09:00	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98.0 %		70-130		06/17/14 09:00	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	102 %		70-130		06/17/14 09:00	EPA 8260B	mtc	
Surrogate: Fluorobenzene	98.6 %		70-130		06/17/14 09:00	EPA 8260B	mtc	

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(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
06/26/14 12:49

Client Sample ID: MW-5

Date/Time Sampled: 06/12/14 10:21

Laboratory Sample ID: 4F13067-04 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	686		50.0	ug/l	06/21/14 03:50	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	2270		50.0	ug/l	06/21/14 03:50	EPA 8260B	wlm	
Benzene	7300		2500	ug/l	06/21/14 03:12	EPA 8260B	wlm	
Toluene	8650		2500	ug/l	06/21/14 03:12	EPA 8260B	wlm	
Ethylbenzene	2590		50.0	ug/l	06/21/14 03:50	EPA 8260B	wlm	
Xylenes (total)	12800		100	ug/l	06/21/14 03:50	EPA 8260B	wlm	
Isopropylbenzene	322		50.0	ug/l	06/21/14 03:50	EPA 8260B	wlm	
Methyl tert-butyl ether	447		50.0	ug/l	06/21/14 03:50	EPA 8260B	wlm	
Naphthalene	502		50.0	ug/l	06/21/14 03:50	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	111 %		70-130		06/19/14 18:56	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	93.3 %		70-130		06/19/14 18:56	EPA 8260B	wlm	
Surrogate: Fluorobenzene	90.0 %		70-130		06/19/14 18:56	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31
Reported:
06/26/14 12:49

Client Sample ID: MW-7

Date/Time Sampled: 06/12/14 09:35

Laboratory Sample ID: 4F13067-05 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<20.0		20.0	ug/l	06/17/14 09:39	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	40.4		20.0	ug/l	06/17/14 09:39	EPA 8260B	mtc	
Benzene	390		20.0	ug/l	06/17/14 09:39	EPA 8260B	mtc	
Toluene	<20.0		20.0	ug/l	06/17/14 09:39	EPA 8260B	mtc	
Ethylbenzene	<20.0		20.0	ug/l	06/17/14 09:39	EPA 8260B	mtc	
Xylenes (total)	96.8		40.0	ug/l	06/17/14 09:39	EPA 8260B	mtc	
Isopropylbenzene	<20.0		20.0	ug/l	06/17/14 09:39	EPA 8260B	mtc	
Methyl tert-butyl ether	<20.0		20.0	ug/l	06/17/14 09:39	EPA 8260B	mtc	
Naphthalene	<20.0		20.0	ug/l	06/17/14 09:39	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98.5 %		70-130		06/17/14 09:39	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	102 %		70-130		06/17/14 09:39	EPA 8260B	mtc	
Surrogate: Fluorobenzene	99.0 %		70-130		06/17/14 09:39	EPA 8260B	mtc	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31
Reported:
06/26/14 12:49

Client Sample ID: MW-8

Date/Time Sampled: 06/12/14 12:47

Laboratory Sample ID: 4F13067-06 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	06/21/14 13:39	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	06/21/14 13:39	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	06/21/14 13:39	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	06/21/14 13:39	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	06/21/14 13:39	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	06/21/14 13:39	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	06/21/14 13:39	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	06/21/14 13:39	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	06/21/14 13:39	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	94.1 %		70-130		06/21/14 13:39	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	127 %		70-130		06/21/14 13:39	EPA 8260B	wlm	
Surrogate: Fluorobenzene	107 %		70-130		06/21/14 13:39	EPA 8260B	wlm	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
06/26/14 12:49

Client Sample ID: MW-9

Date/Time Sampled: 06/12/14 13:15

Laboratory Sample ID: 4F13067-07 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	06/21/14 08:16	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	06/21/14 08:16	EPA 8260B	wlm	
Benzene	58.3		1.00	ug/l	06/21/14 08:16	EPA 8260B	wlm	
Toluene	2.24		1.00	ug/l	06/21/14 08:16	EPA 8260B	wlm	
Ethylbenzene	1.96		1.00	ug/l	06/21/14 08:16	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	06/21/14 08:16	EPA 8260B	wlm	
Isopropylbenzene	5.73		1.00	ug/l	06/21/14 08:16	EPA 8260B	wlm	
Methyl tert-butyl ether	5.88		1.00	ug/l	06/21/14 08:16	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	06/21/14 08:16	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	99.1 %		70-130		06/21/14 08:16	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	111 %		70-130		06/21/14 08:16	EPA 8260B	wlm	
Surrogate: Fluorobenzene	96.5 %		70-130		06/21/14 08:16	EPA 8260B	wlm	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31
Reported:
06/26/14 12:49

Client Sample ID: MW-10

Date/Time Sampled: 06/12/14 14:02

Laboratory Sample ID: 4F13067-08 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	06/21/14 10:29	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	06/21/14 10:29	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	06/21/14 10:29	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	06/21/14 10:29	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	06/21/14 10:29	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	06/21/14 10:29	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	06/21/14 10:29	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	06/21/14 10:29	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	06/21/14 10:29	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	93.5 %		70-130		06/21/14 10:29	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	121 %		70-130		06/21/14 10:29	EPA 8260B	wlm	
Surrogate: Fluorobenzene	97.7 %		70-130		06/21/14 10:29	EPA 8260B	wlm	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31
Reported:
06/26/14 12:49

Client Sample ID: MW-11

Date/Time Sampled: 06/12/14 14:20

Laboratory Sample ID: 4F13067-09 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	06/21/14 11:07	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	06/21/14 11:07	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	06/21/14 11:07	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	06/21/14 11:07	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	06/21/14 11:07	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	06/21/14 11:07	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	06/21/14 11:07	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	06/21/14 11:07	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	06/21/14 11:07	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	90.9 %		70-130		06/21/14 11:07	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	125 %		70-130		06/21/14 11:07	EPA 8260B	wlm	
Surrogate: Fluorobenzene	106 %		70-130		06/21/14 11:07	EPA 8260B	wlm	

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Converse
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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
06/26/14 12:49

Client Sample ID: MW-12

Date/Time Sampled: 06/12/14 11:24

Laboratory Sample ID: 4F13067-10 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	06/20/14 15:08	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	06/20/14 15:08	EPA 8260B	wlm	
Benzene	1.43		1.00	ug/l	06/20/14 15:08	EPA 8260B	wlm	
Toluene	3.12		1.00	ug/l	06/20/14 15:08	EPA 8260B	wlm	
Ethylbenzene	1.48		1.00	ug/l	06/20/14 15:08	EPA 8260B	wlm	
Xylenes (total)	6.35		2.00	ug/l	06/20/14 15:08	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	06/20/14 15:08	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	06/20/14 15:08	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	06/20/14 15:08	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	95.6 %		70-130		06/20/14 15:08	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	117 %		70-130		06/20/14 15:08	EPA 8260B	wlm	
Surrogate: Fluorobenzene	105 %		70-130		06/20/14 15:08	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
06/26/14 12:49

Client Sample ID: MW-13

Date/Time Sampled: 06/12/14 12:25

Laboratory Sample ID: 4F13067-11 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	06/20/14 15:46	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	06/20/14 15:46	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	06/20/14 15:46	EPA 8260B	wlm	
Toluene	102		10.0	ug/l	06/25/14 19:35	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	06/20/14 15:46	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	06/20/14 15:46	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	06/20/14 15:46	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	06/20/14 15:46	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	06/20/14 15:46	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	93.7 %		70-130		06/20/14 15:46	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	112 %		70-130		06/20/14 15:46	EPA 8260B	wlm	
Surrogate: Fluorobenzene	103 %		70-130		06/20/14 15:46	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
06/26/14 12:49

Client Sample ID: MW-14

Date/Time Sampled: 06/12/14 12:15

Laboratory Sample ID: 4F13067-12 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	06/20/14 16:26	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	06/20/14 16:26	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	06/20/14 16:26	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	06/20/14 16:26	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	06/20/14 16:26	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	06/20/14 16:26	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	06/20/14 16:26	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	06/20/14 16:26	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	06/20/14 16:26	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	91.1 %		70-130		06/20/14 16:26	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	117 %		70-130		06/20/14 16:26	EPA 8260B	wlm	
Surrogate: Fluorobenzene	105 %		70-130		06/20/14 16:26	EPA 8260B	wlm	

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State Certifications: MD 275, WV 364

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
06/26/14 12:49

Client Sample ID: MW-15

Date/Time Sampled: 06/12/14 11:45

Laboratory Sample ID: 4F13067-13 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00	1.00	ug/l	06/20/14 17:04	EPA 8260B	wlm
1,2,4-Trimethylbenzene	<1.00	1.00	ug/l	06/20/14 17:04	EPA 8260B	wlm
Benzene	<1.00	1.00	ug/l	06/20/14 17:04	EPA 8260B	wlm
Toluene	2.35	1.00	ug/l	06/20/14 17:04	EPA 8260B	wlm
Ethylbenzene	<1.00	1.00	ug/l	06/20/14 17:04	EPA 8260B	wlm
Xylenes (total)	2.91	2.00	ug/l	06/20/14 17:04	EPA 8260B	wlm
Isopropylbenzene	<1.00	1.00	ug/l	06/20/14 17:04	EPA 8260B	wlm
Methyl tert-butyl ether	<1.00	1.00	ug/l	06/20/14 17:04	EPA 8260B	wlm
Naphthalene	<1.00	1.00	ug/l	06/20/14 17:04	EPA 8260B	wlm
Surrogate: 4-Bromofluorobenzene	96.2 %	70-130		06/20/14 17:04	EPA 8260B	wlm
Surrogate: 1,2-Dichloroethane-d4	120 %	70-130		06/20/14 17:04	EPA 8260B	wlm
Surrogate: Fluorobenzene	104 %	70-130		06/20/14 17:04	EPA 8260B	wlm

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(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennsdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
06/26/14 12:49

Client Sample ID: MW-16

Date/Time Sampled: 06/12/14 13:39

Laboratory Sample ID: 4F13067-14 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	06/20/14 17:43	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	06/20/14 17:43	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	06/20/14 17:43	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	06/20/14 17:43	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	06/20/14 17:43	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	06/20/14 17:43	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	06/20/14 17:43	EPA 8260B	wlm	
Methyl tert-butyl ether	3.02		1.00	ug/l	06/20/14 17:43	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	06/20/14 17:43	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	92.1 %		70-130		06/20/14 17:43	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	116 %		70-130		06/20/14 17:43	EPA 8260B	wlm	
Surrogate: Fluorobenzene	98.0 %		70-130		06/20/14 17:43	EPA 8260B	wlm	

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State Certifications: MD 275, WV 364

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
06/26/14 12:49

Client Sample ID: MW-16M

Date/Time Sampled: 06/12/14 13:30

Laboratory Sample ID: 4F13067-15 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	06/20/14 18:21	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	06/20/14 18:21	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	06/20/14 18:21	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	06/20/14 18:21	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	06/20/14 18:21	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	06/20/14 18:21	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	06/20/14 18:21	EPA 8260B	wlm	
Methyl tert-butyl ether	3.42		1.00	ug/l	06/20/14 18:21	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	06/20/14 18:21	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	91.6 %		70-130		06/20/14 18:21	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	119 %		70-130		06/20/14 18:21	EPA 8260B	wlm	
Surrogate: Fluorobenzene	105 %		70-130		06/20/14 18:21	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: [none]
Collector: CLIENT
Number of Containers: 31

Reported:
06/26/14 12:49

Client Sample ID: TB

Date/Time Sampled: 06/12/14 00:00

Laboratory Sample ID: 4F13067-16 (Water/Trip Blank)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	06/20/14 12:37	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	06/20/14 12:37	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	06/20/14 12:37	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	06/20/14 12:37	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	06/20/14 12:37	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	06/20/14 12:37	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	06/20/14 12:37	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	06/20/14 12:37	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	06/20/14 12:37	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	90.8 %		70-130		06/20/14 12:37	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	112 %		70-130		06/20/14 12:37	EPA 8260B	wlm	
Surrogate: Fluorobenzene	94.3 %		70-130		06/20/14 12:37	EPA 8260B	wlm	

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Converse

2738 West College Avenue

State College PA, 16801

Project Manager: Orion Cook

Project: ROSEMERGY'S

Project Number: [none]

Collector: CLIENT

Number of Containers: 31

Reported:

06/26/14 12:49

Definitions

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

* P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.

< Represents "less than" - indicates that the result was less than the reporting limit.

MDL Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any reported result values that are less than the RL are considered estimated values.

RL Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

PA No 0625

CC FIELD REP. OBC TOT

DATE 6/12/14

WEATHER intermittent rain, 50s

2738 West College Avenue
State College, Pennsylvania 16801

ATTENTION OBC or DHS

Fax 814-234-3255

1145
RECEIVING LABORATORY _____
ADDRESS _____
DATE RECEIVED _____ TIME _____
ALL SAMPLES REC'D INTACT ☐ YES ☐ NO
LIST SAMPLES MISSING/DAMAGED _____
ACCEPTED BY _____

PA No 0624

CC FIELD REP: ABC TOT

DATE 6/12/14

Intermittent rain, 50s
WEATHER

PROJECT NO.

ATTENTION OBC or DWS



2738 West College Avenue
State College, Pennsylvania 16801

Fax 814-234-3255

[illegible]



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(814) 946-4306
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PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 9
Reported:
05/12/14 12:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-13	4E01063-01	Water	Grab	04/29/14 14:12	05/01/14 15:15
MW-14	4E01063-02	Water	Grab	04/29/14 13:40	05/01/14 15:15
MW-15	4E01063-03	Water	Grab	04/29/14 13:05	05/01/14 15:15
MW-16	4E01063-04	Water	Grab	04/29/14 14:43	05/01/14 15:15
TB	4E01063-05	Water	Trip Blank	04/29/14 00:00	05/01/14 15:15

Fairway Laboratories, Inc.

Reviewed and Submitted by:

Michael P. Tyler
Laboratory Director

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State Certifications: MD 275, WV 364

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 9
Reported:
05/12/14 12:01

Client Sample ID: MW-13

Date/Time Sampled: 04/29/14 14:12

Laboratory Sample ID: 4E01063-01 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00	1.00	ug/l	05/03/14 06:09	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00	1.00	ug/l	05/03/14 06:09	EPA 8260B	wlm	
Benzene	<1.00	1.00	ug/l	05/03/14 06:09	EPA 8260B	wlm	
Toluene	66.1	1.00	ug/l	05/03/14 06:09	EPA 8260B	wlm	
Ethylbenzene	<1.00	1.00	ug/l	05/03/14 06:09	EPA 8260B	wlm	
Xylenes (total)	<2.00	2.00	ug/l	05/03/14 06:09	EPA 8260B	wlm	
Isopropylbenzene	<1.00	1.00	ug/l	05/03/14 06:09	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00	1.00	ug/l	05/03/14 06:09	EPA 8260B	wlm	
Naphthalene	<1.00	1.00	ug/l	05/03/14 06:09	EPA 8260B	wlm	2e
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130		05/03/14 06:09	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	114 %	70-130		05/03/14 06:09	EPA 8260B	wlm	
Surrogate: Fluorobenzene	97.3 %	70-130		05/03/14 06:09	EPA 8260B	wlm	

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PaDEP: PA 41-04684



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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 9
Reported:
05/12/14 12:01

Client Sample ID: MW-14

Date/Time Sampled: 04/29/14 13:40

Laboratory Sample ID: 4E01063-02 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	05/03/14 07:25	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	05/03/14 07:25	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	05/03/14 07:25	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	05/03/14 07:25	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	05/03/14 07:25	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	05/03/14 07:25	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	05/03/14 07:25	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	05/03/14 07:25	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	05/03/14 07:25	EPA 8260B	wlm	2e
Surrogate: 4-Bromofluorobenzene	97.8 %		70-130		05/03/14 07:25	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	114 %		70-130		05/03/14 07:25	EPA 8260B	wlm	
Surrogate: Fluorobenzene	97.0 %		70-130		05/03/14 07:25	EPA 8260B	wlm	

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PaDEP: PA 41-04684



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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 9
Reported:
05/12/14 12:01

Client Sample ID: MW-15

Date/Time Sampled: 04/29/14 13:05

Laboratory Sample ID: 4E01063-03 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	05/03/14 08:02	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	05/03/14 08:02	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	05/03/14 08:02	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	05/03/14 08:02	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	05/03/14 08:02	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	05/03/14 08:02	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	05/03/14 08:02	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	05/03/14 08:02	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	05/03/14 08:02	EPA 8260B	wlm	2e
Surrogate: 4-Bromofluorobenzene	98.0 %		70-130		05/03/14 08:02	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	114 %		70-130		05/03/14 08:02	EPA 8260B	wlm	
Surrogate: Fluorobenzene	96.7 %		70-130		05/03/14 08:02	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 9
Reported:
05/12/14 12:01

Client Sample ID: MW-16

Date/Time Sampled: 04/29/14 14:43

Laboratory Sample ID: 4E01063-04 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	05/03/14 08:41	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	05/03/14 08:41	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	05/03/14 08:41	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	05/03/14 08:41	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	05/03/14 08:41	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	05/03/14 08:41	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	05/03/14 08:41	EPA 8260B	wlm	
Methyl tert-butyl ether	9.18		1.00	ug/l	05/03/14 08:41	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	05/03/14 08:41	EPA 8260B	wlm	2e
Surrogate: 4-Bromofluorobenzene	98.5 %		70-130		05/03/14 08:41	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	112 %		70-130		05/03/14 08:41	EPA 8260B	wlm	
Surrogate: Fluorobenzene	96.4 %		70-130		05/03/14 08:41	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 9
Reported:
05/12/14 12:01

Client Sample ID: TB

Date/Time Sampled: 04/29/14 00:00

Laboratory Sample ID: 4E01063-05 (Water/Trip Blank)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	05/03/14 06:47	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	05/03/14 06:47	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	05/03/14 06:47	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	05/03/14 06:47	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	05/03/14 06:47	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	05/03/14 06:47	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	05/03/14 06:47	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	05/03/14 06:47	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	05/03/14 06:47	EPA 8260B	wlm	2e
Surrogate: 4-Bromofluorobenzene	95.8 %		70-130		05/03/14 06:47	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	114 %		70-130		05/03/14 06:47	EPA 8260B	wlm	
Surrogate: Fluorobenzene	97.0 %		70-130		05/03/14 06:47	EPA 8260B	wlm	

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(570) 494-6380
PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Converse

Project: ROSEMERGY'S

2738 West College Avenue

Project Number: 11-17788-02

Reported:

State College PA, 16801

Collector: CLIENT

05/12/14 12:01

Project Manager: Orion Cook

Number of Containers: 9

Notes

2e CCV was outside the QC range. Data accepted based on additional batch QC.

Definitions

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

* P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.

< Represents "less than" - indicates that the result was less than the reporting limit.

MDL Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any reported result values that are less than the RL are considered estimated values.

RL Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

PA

SAMPLING,
Rosemary

ADDRESS Hawley, PA

Klosterberg

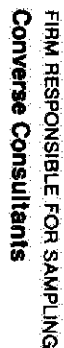
14

DATE 4-29-14

WEATHER Rain 50°

PROJECT NO. 11-1785-02

ATTENTION Wesley or OSC



FIRM RESPONSIBLE FOR SAMPLING

Converse Consultants

2738 West College Avenue

State College, Pennsylvania 16801
814-334-3223

014-204-0220
014-001 0055

Fax 814-234-3255

4E61063-01

STATION NO. OR SAMPLE IDENT.		TIME	DEPTH TO WATER (FEET) DATUM	PURGING METHOD	AMOUNT PURGED (GALS)	SAMPLING METHOD	CONTAINER DESCRIPTION	pH	SPECIFIC CONDUCTANCE (μ mhos/cm.)	TEMP. °C	ANALYSIS REQUEST / COMMENTS
MW-13	217	1153	8wp	1.5	Bail	2	6.5	162	20	(2008 Unloaded Gas)	
MW-14	190	1137		3.5		1	6.4	93	25	Shut List	
MW-15	105	6.45		4.0		1	6.0	199	7.1		
MW-16	2143	0.708		2.0		1	6.0	1125	6.45		
7B											
RELINQUISHED BY (SIGNATURE)				DATE	TIME	RECEIVED BY (SIGNATURE)		RECEIVING LABORATORY			
<i>[Signature]</i>				5-1-14	5:14	<i>[Signature]</i>		ADDRESS			
RELINQUISHED BY (SIGNATURE)				DATE	TIME	RECEIVED BY (SIGNATURE)		DATE RECEIVED			
<i>[Signature]</i>				5-1-14	15:15	<i>[Signature]</i>		ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO			
RELINQUISHED BY (SIGNATURE)				DATE	TIME	RECEIVED BY (SIGNATURE)		LIST SAMPLES MISSING/DAMAGED			
<i>[Signature]</i>				5-1-14	15:15	<i>[Signature]</i>		ACCEPTED BY			
								TIME			
								Factory Lab			

Chain of Custody Receiving Document

Receiver: CBPage of Date/Time of this check: 5/1 15:20 Sample Temperature: 4.2 Client: Lawrence Lab # 4601063-02Received at Lab on ICE? Y ☐ * Sample Temperature when arrived at Lab: 4.2 Acceptable? Y ☐ * or In cool down process? ☐ *
Custody Seals? Y Intact? YCOC/Labels on bottles agree? Y ☐ * Correct containers for all the analysis requested? Y ☐ * Matrix: water

COC #	Number and Type of BOTTLES										Comments
	Poly Non-Pres.	Poly H2SO4	Poly HNO3	Amber H2SO4	Amber Non-Pres.	Poly NaOH	VOCS (Head space?)	Other	Properly Preserved	Bacti	
13							24L	<input type="checkbox"/> *	<input type="checkbox"/> *		
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- * DEVIATION PRESENT:
- ☐ No Ice ()
- ☐ Not at Proper Temperature ()
- ☐ Wrong Container ()
- ☐ Missing Information: ()

CLIENT CALLED:

YES ()

By Whom: _____

Date: _____

CLIENT RESPONSE:

Proceed with analysis; quality data ()

Will Resample ()

Provided Information ()

No Response; Proceed and qualified ()

Client Contact: _____ Date: _____

* Comments: _____

Chain of Custody Receiving Document

This is a date sensitive document and may not be current after April 30, 2014.



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PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Converse

2738 West College Avenue

State College PA, 16801

Project Manager: Orion Cook

Project: ROSEMERGY'S

Project Number: 11-17788-02

Collector: OC

Number of Containers: 19

Reported:

03/19/14 09:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1R	4C10045-01	Water	Grab	03/07/14 16:20	03/10/14 15:30
MW-2	4C10045-02	Water	Grab	03/07/14 15:45	03/10/14 15:30
MW-5	4C10045-03	Water	Grab	03/07/14 16:40	03/10/14 15:30
MW-8	4C10045-04	Water	Grab	03/07/14 13:35	03/10/14 15:30
MW-9	4C10045-05	Water	Grab	03/07/14 13:55	03/10/14 15:30
MW-10	4C10045-06	Water	Grab	03/07/14 14:20	03/10/14 15:30
MW-11	4C10045-07	Water	Grab	03/07/14 14:40	03/10/14 15:30
MW-12	4C10045-08	Water	Grab	03/07/14 15:15	03/10/14 15:30
MW-1M	4C10045-09	Water	Grab	03/07/14 16:30	03/10/14 15:30
TB	4C10045-10	Water	Trip Blank	03/07/14 00:00	03/10/14 15:30

Fairway Laboratories, Inc.

Reviewed and Submitted by:

Michael P. Tyler
Laboratory Director

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 19

Reported:
03/19/14 09:55

Client Sample ID: MW-1R

Date/Time Sampled: 03/07/14 16:20

Laboratory Sample ID: 4C10045-01 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	618		100	ug/l	03/13/14 17:58	EPA 8260B	bag	
1,2,4-Trimethylbenzene	1900		100	ug/l	03/13/14 17:58	EPA 8260B	bag	
Benzene	7740		100	ug/l	03/13/14 17:58	EPA 8260B	bag	
Toluene	12900		200	ug/l	03/15/14 02:01	EPA 8260B	bag	
Ethylbenzene	2710		100	ug/l	03/13/14 17:58	EPA 8260B	bag	
Xylenes (total)	14000		200	ug/l	03/13/14 17:58	EPA 8260B	bag	
Isopropylbenzene	336		100	ug/l	03/13/14 17:58	EPA 8260B	bag	
Methyl tert-butyl ether	<100		100	ug/l	03/13/14 17:58	EPA 8260B	bag	
Naphthalene	194		100	ug/l	03/13/14 17:58	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	99.4 %		70-130		03/13/14 17:58	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	98.1 %		70-130		03/13/14 17:58	EPA 8260B	bag	
Surrogate: Fluorobenzene	99.8 %		70-130		03/13/14 17:58	EPA 8260B	bag	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 19

Reported:
03/19/14 09:55

Client Sample ID: MW-2

Date/Time Sampled: 03/07/14 15:45

Laboratory Sample ID: 4C10045-02 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	255		10.0	ug/l	03/13/14 18:16	EPA 8260B	bag	
1,2,4-Trimethylbenzene	612		10.0	ug/l	03/13/14 18:16	EPA 8260B	bag	
Benzene	115		10.0	ug/l	03/13/14 18:16	EPA 8260B	bag	
Toluene	298		10.0	ug/l	03/13/14 18:16	EPA 8260B	bag	
Ethylbenzene	391		10.0	ug/l	03/13/14 18:16	EPA 8260B	bag	
Xylenes (total)	586		20.0	ug/l	03/13/14 18:16	EPA 8260B	bag	
Isopropylbenzene	153		10.0	ug/l	03/13/14 18:16	EPA 8260B	bag	
Methyl tert-butyl ether	<10.0		10.0	ug/l	03/13/14 18:16	EPA 8260B	bag	
Naphthalene	160		10.0	ug/l	03/13/14 18:16	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	99.2 %		70-130		03/13/14 18:16	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	96.7 %		70-130		03/13/14 18:16	EPA 8260B	bag	
Surrogate: Fluorobenzene	98.5 %		70-130		03/13/14 18:16	EPA 8260B	bag	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 19
Reported:
03/19/14 09:55

Client Sample ID: MW-5

Date/Time Sampled: 03/07/14 16:40

Laboratory Sample ID: 4C10045-03 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<2.00		2.00	ug/l	03/14/14 14:26	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<2.00		2.00	ug/l	03/14/14 14:26	EPA 8260B	wlm	
Benzene	<2.00		2.00	ug/l	03/14/14 14:26	EPA 8260B	wlm	
Toluene	<2.00		2.00	ug/l	03/14/14 14:26	EPA 8260B	wlm	
Ethylbenzene	<2.00		2.00	ug/l	03/14/14 14:26	EPA 8260B	wlm	
Xylenes (total)	<4.00		4.00	ug/l	03/14/14 14:26	EPA 8260B	wlm	
Isopropylbenzene	<2.00		2.00	ug/l	03/14/14 14:26	EPA 8260B	wlm	
Methyl tert-butyl ether	<2.00		2.00	ug/l	03/14/14 14:26	EPA 8260B	wlm	
Naphthalene	<2.00		2.00	ug/l	03/14/14 14:26	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	97.7 %		70-130		03/14/14 14:26	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	96.1 %		70-130		03/14/14 14:26	EPA 8260B	wlm	
Surrogate: Fluorobenzene	98.5 %		70-130		03/14/14 14:26	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 19

Reported:
03/19/14 09:55

Client Sample ID: MW-8

Date/Time Sampled: 03/07/14 13:35

Laboratory Sample ID: 4C10045-04 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	03/11/14 08:29	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	03/11/14 08:29	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	03/11/14 08:29	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	03/11/14 08:29	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	03/11/14 08:29	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	03/11/14 08:29	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	03/11/14 08:29	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/11/14 08:29	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	03/11/14 08:29	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	103 %		70-130		03/11/14 08:29	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	122 %		70-130		03/11/14 08:29	EPA 8260B	wlm	
Surrogate: Fluorobenzene	109 %		70-130		03/11/14 08:29	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 19
Reported:
03/19/14 09:55

Client Sample ID: MW-9

Date/Time Sampled: 03/07/14 13:55

Laboratory Sample ID: 4C10045-05 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00	1.00	ug/l	03/11/14 08:57	EPA 8260B	wlm
1,2,4-Trimethylbenzene	<1.00	1.00	ug/l	03/11/14 08:57	EPA 8260B	wlm
Benzene	96.1	1.00	ug/l	03/11/14 08:57	EPA 8260B	wlm
Toluene	<1.00	1.00	ug/l	03/11/14 08:57	EPA 8260B	wlm
Ethylbenzene	3.18	1.00	ug/l	03/11/14 08:57	EPA 8260B	wlm
Xylenes (total)	<2.00	2.00	ug/l	03/11/14 08:57	EPA 8260B	wlm
Isopropylbenzene	5.48	1.00	ug/l	03/11/14 08:57	EPA 8260B	wlm
Methyl tert-butyl ether	9.41	1.00	ug/l	03/11/14 08:57	EPA 8260B	wlm
Naphthalene	<1.00	1.00	ug/l	03/11/14 08:57	EPA 8260B	wlm
Surrogate: 4-Bromofluorobenzene	103 %	70-130		03/11/14 08:57	EPA 8260B	wlm
Surrogate: 1,2-Dichloroethane-d4	117 %	70-130		03/11/14 08:57	EPA 8260B	wlm
Surrogate: Fluorobenzene	106 %	70-130		03/11/14 08:57	EPA 8260B	wlm

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 19
Reported:
03/19/14 09:55

Client Sample ID: MW-10

Date/Time Sampled: 03/07/14 14:20

Laboratory Sample ID: 4C10045-06 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
---------	--------	-----	----	-------	----------------------	--------	-----------	------

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	03/11/14 09:25	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	03/11/14 09:25	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	03/11/14 09:25	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	03/11/14 09:25	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	03/11/14 09:25	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	03/11/14 09:25	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	03/11/14 09:25	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/11/14 09:25	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	03/11/14 09:25	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	102 %		70-130		03/11/14 09:25	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	120 %		70-130		03/11/14 09:25	EPA 8260B	wlm	
Surrogate: Fluorobenzene	110 %		70-130		03/11/14 09:25	EPA 8260B	wlm	

Fairway Laboratories, Inc.

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PO Box 1925
Altoona, PA 16603
(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 19

Reported:
03/19/14 09:55

Client Sample ID: MW-11

Date/Time Sampled: 03/07/14 14:40

Laboratory Sample ID: 4C10045-07 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	03/11/14 09:53	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	03/11/14 09:53	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	03/11/14 09:53	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	03/11/14 09:53	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	03/11/14 09:53	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	03/11/14 09:53	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	03/11/14 09:53	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/11/14 09:53	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	03/11/14 09:53	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	104 %		70-130		03/11/14 09:53	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	119 %		70-130		03/11/14 09:53	EPA 8260B	wlm	
Surrogate: Fluorobenzene	108 %		70-130		03/11/14 09:53	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 19

Reported:
03/19/14 09:55

Client Sample ID: MW-12

Date/Time Sampled: 03/07/14 15:15

Laboratory Sample ID: 4C10045-08 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
---------	--------	-----	----	-------	----------------------	--------	-----------	------

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	03/11/14 10:21	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	03/11/14 10:21	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	03/11/14 10:21	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	03/11/14 10:21	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	03/11/14 10:21	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	03/11/14 10:21	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	03/11/14 10:21	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/11/14 10:21	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	03/11/14 10:21	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	102 %		70-130		03/11/14 10:21	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	121 %		70-130		03/11/14 10:21	EPA 8260B	wlm	
Surrogate: Fluorobenzene	111 %		70-130		03/11/14 10:21	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 19
Reported:
03/19/14 09:55

Client Sample ID: MW-1M

Date/Time Sampled: 03/07/14 16:30

Laboratory Sample ID: 4C10045-09 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	662		100	ug/l	03/14/14 07:38	EPA 8260B	bag	
1,2,4-Trimethylbenzene	2100		100	ug/l	03/14/14 07:38	EPA 8260B	bag	
Benzene	8210		100	ug/l	03/14/14 07:38	EPA 8260B	bag	
Toluene	14500		200	ug/l	03/15/14 02:38	EPA 8260B	bag	
Ethylbenzene	2760		100	ug/l	03/14/14 07:38	EPA 8260B	bag	
Xylenes (total)	14400		200	ug/l	03/14/14 07:38	EPA 8260B	bag	
Isopropylbenzene	364		100	ug/l	03/14/14 07:38	EPA 8260B	bag	
Methyl tert-butyl ether	<100		100	ug/l	03/14/14 07:38	EPA 8260B	bag	
Naphthalene	209		100	ug/l	03/14/14 07:38	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	103 %		70-130		03/14/14 07:38	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	99.0 %		70-130		03/14/14 07:38	EPA 8260B	bag	
Surrogate: Fluorobenzene	104 %		70-130		03/14/14 07:38	EPA 8260B	bag	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 19

Reported:
03/19/14 09:55

Client Sample ID: TB

Date/Time Sampled: 03/07/14 00:00

Laboratory Sample ID: 4C10045-10 (Water/Trip Blank)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	03/11/14 10:50	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	03/11/14 10:50	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	03/11/14 10:50	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	03/11/14 10:50	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	03/11/14 10:50	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	03/11/14 10:50	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	03/11/14 10:50	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/11/14 10:50	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	03/11/14 10:50	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	103 %		70-130		03/11/14 10:50	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	120 %		70-130		03/11/14 10:50	EPA 8260B	wlm	
Surrogate: Fluorobenzene	110 %		70-130		03/11/14 10:50	EPA 8260B	wlm	

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Converse

2738 West College Avenue

State College PA, 16801

Project Manager: Orion Cook

Project: ROSEMERGY'S

Project Number: 11-17788-02

Collector: OC

Number of Containers: 19

Reported:

03/19/14 09:55

Definitions

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

* P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.

< Represents "less than" - indicates that the result was less than the reporting limit.

MDL Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any reported result values that are less than the RL are considered estimated values.

RL Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

SAMPLING, CHAIN OF CUSTODY AND ANALYSES RECORD FOR SOIL, GROUNDWATER AND AIR MONITORING PA

SAMPLING PLACE Rosemary's
 OWNER Woodloch
 ADDRESS Harley, PA
 PROJECT NAME _____

CC FIELD REP. AK
 DATE 3-7-14
 WEATHER P. Cloudy 40
 PROJECT NO. 11-12788-02
 ATTENTION Dee & AK

FIRM RESPONSIBLE FOR SAMPLING
Converse Consultants
 2738 West College Avenue
 State College, Pennsylvania 16801
 814-234-3223
 Fax 814-234-3255

STATION NO. OR SAMPLE IDENT.	TIME	DEPTH TO WATER (FEET) DATUM	PURGING METHOD	SAMPLE DEPTH (FT) INTERVAL	AMOUNT PURGED (GALS)	SAMPLING METHOD	CONTAINER DESCRIPTION		pH	SPECIFIC CONDUCTANCE (μ mhos/cm.)	TEMP. °C	ANALYSIS REQUEST / COMMENTS
MW-1K	4:20	2.93	Pump		3	Boiler	2		6.2	1101	20	2008 (depaled)
MW-2	3:45	4.87			4.5		1		6.7	2310	7.5	get start list
MW-5	4:40	3.83			5				7.2	6980	3.3	
MW-8	1:35	3.05			5.5				7.4	2360	5.3	
MW-9	1:55	1.12			6.5				7.0	2260	5.4	
MW-10	2:20	2.92			5.5				7.0	1161	4.5	
MW-11	2:46	3.22			5.5				6.7	528	6.2	
MW-12	3:15	5.18			4.5				6.6	331	2.0	
MW-1M	4:26	2.93			3				6.2	1101	2.0	
TB												

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)
<u>AK</u>	3-10-14	1430	<u>AK</u>
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)
<u>AK</u>	3-10-14	1530	<u>AK</u>
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)

RECEIVING LABORATORY ADDRESS _____

DATE RECEIVED _____

ALL SAMPLES RECD. INTACT ☐ YES ☐ NO

LIST SAMPLES MISSING/DAMAGED _____

ACCEPTED BY _____

TIME _____

Chain of Custody Receiving Document

Receiver: ALPage of Date/Time of this check: 3/10/14 1530 Sample Temperature: 6 Client Converse Lab # 4C1004502Received at Lab on ICE? ☒ * Sample Temperature when arrived at Lab: 6 Acceptable? ☒ * or In cool down process? ☐ *Custody Seals? Y Intact? YCOC/Labels on bottles agree? ☒ * Correct containers for all the analysis requested? ☒ * Matrix: water

COC #	Number and Type of BOTTLES							Comments
	Poly Non-Pres.	Poly H2SO4	Poly HNO3	Amber H2SO4 Pres.	Amber Non-Pres.	Poly NaOH (Head space?)	Other	
1						ATK1	<input type="checkbox"/> *	<input checked="" type="checkbox"/> *
2								
3								
4								
5								
6								
7								
8								
9								
10								

- * DEVIATION PRESENT:
- ☐ No Ice ()
 - ☐ Not at Proper Temperature ()
 - ☐ Wrong Container ()
 - ☐ Missing Information: ()

CLIENT CALLED:

YES ()

By Whom: _____

Date: _____

CLIENT RESPONSE:

- ☐ Proceed with analysis; quality data ()
- ☐ Will Resample ()
- ☐ Provided Information ()
- ☐ No Response; Proceed and qualified ()

Client Contact: _____ Date: _____

* Comments: _____

Chain of Custody Receiving Document

This is a date sensitive document and may not be current after March 4, 2014.



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PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 9

Reported:
02/18/14 10:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-10	4B07082-01	Water	Grab	02/04/14 15:09	02/07/14 15:10
MW-11	4B07082-02	Water	Grab	02/04/14 15:45	02/07/14 15:10
SW-8	4B07082-03	Water	Grab	02/04/14 16:20	02/07/14 15:10
SW-12	4B07082-04	Water	Grab	02/04/14 15:56	02/07/14 15:10
TB	4B07082-05	Water	Trip Blank	02/04/14 00:00	02/07/14 15:10

Fairway Laboratories, Inc.

Reviewed and Submitted by:

Michael P. Tyler
Laboratory Director

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 9
Reported:
02/18/14 10:21

Client Sample ID: MW-10

Date/Time Sampled: 02/04/14 15:09

Laboratory Sample ID: 4B07082-01 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
---------	--------	-----	----	-------	----------------------	--------	-----------	------

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<2.00		2.00	ug/l	02/10/14 18:53	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<2.00		2.00	ug/l	02/10/14 18:53	EPA 8260B	mtc	
Benzene	<0.24		0.24	ug/l	02/10/14 18:53	EPA 8260B	mtc	2m
Toluene	<2.00		2.00	ug/l	02/10/14 18:53	EPA 8260B	mtc	
Ethylbenzene	<2.00		2.00	ug/l	02/10/14 18:53	EPA 8260B	mtc	
Xylenes (total)	<4.00		4.00	ug/l	02/10/14 18:53	EPA 8260B	mtc	
Isopropylbenzene	<2.00		2.00	ug/l	02/10/14 18:53	EPA 8260B	mtc	
Methyl tert-butyl ether	<2.00		2.00	ug/l	02/10/14 18:53	EPA 8260B	mtc	
Naphthalene	<2.00		2.00	ug/l	02/10/14 18:53	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	93.1 %		70-130		02/10/14 18:53	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	99.3 %		70-130		02/10/14 18:53	EPA 8260B	mtc	
Surrogate: Fluorobenzene	98.0 %		70-130		02/10/14 18:53	EPA 8260B	mtc	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 9
Reported:
02/18/14 10:21

Client Sample ID: MW-11

Date/Time Sampled: 02/04/14 15:45

Laboratory Sample ID: 4B07082-02 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
---------	--------	-----	----	-------	----------------------	--------	-----------	------

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<2.00		2.00	ug/l	02/10/14 19:30	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<2.00		2.00	ug/l	02/10/14 19:30	EPA 8260B	mtc	
Benzene	0.30		0.24	ug/l	02/10/14 19:30	EPA 8260B	mtc	2m
Toluene	<2.00		2.00	ug/l	02/10/14 19:30	EPA 8260B	mtc	
Ethylbenzene	<2.00		2.00	ug/l	02/10/14 19:30	EPA 8260B	mtc	
Xylenes (total)	<4.00		4.00	ug/l	02/10/14 19:30	EPA 8260B	mtc	
Isopropylbenzene	<2.00		2.00	ug/l	02/10/14 19:30	EPA 8260B	mtc	
Methyl tert-butyl ether	<2.00		2.00	ug/l	02/10/14 19:30	EPA 8260B	mtc	
Naphthalene	<2.00		2.00	ug/l	02/10/14 19:30	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	94.4 %		70-130		02/10/14 19:30	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	103 %		70-130		02/10/14 19:30	EPA 8260B	mtc	
Surrogate: Fluorobenzene	97.6 %		70-130		02/10/14 19:30	EPA 8260B	mtc	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 9
Reported:
02/18/14 10:21

Client Sample ID: SW-8

Date/Time Sampled: 02/04/14 16:20

Laboratory Sample ID: 4B07082-03 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
---------	--------	-----	----	-------	-------------------------	--------	--------------	------

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	02/10/14 14:50	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	02/10/14 14:50	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	02/10/14 14:50	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	02/10/14 14:50	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	02/10/14 14:50	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	02/10/14 14:50	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	02/10/14 14:50	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	02/10/14 14:50	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	02/10/14 14:50	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	94.4 %		70-130		02/10/14 14:50	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	105 %		70-130		02/10/14 14:50	EPA 8260B	mtc	
Surrogate: Fluorobenzene	101 %		70-130		02/10/14 14:50	EPA 8260B	mtc	

Fairway Laboratories, Inc.

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2019 Ninth Avenue
PO Box 1925
Altoona, PA 16603
(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 9

Reported:
02/18/14 10:21

Client Sample ID: SW-12

Date/Time Sampled: 02/04/14 15:56

Laboratory Sample ID: 4B07082-04 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
---------	--------	-----	----	-------	----------------------	--------	-----------	------

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	02/10/14 15:27	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	02/10/14 15:27	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	02/10/14 15:27	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	02/10/14 15:27	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	02/10/14 15:27	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	02/10/14 15:27	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	02/10/14 15:27	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	02/10/14 15:27	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	02/10/14 15:27	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	95.2 %		70-130		02/10/14 15:27	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	109 %		70-130		02/10/14 15:27	EPA 8260B	mtc	
Surrogate: Fluorobenzene	104 %		70-130		02/10/14 15:27	EPA 8260B	mtc	

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89 Kristi Road
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PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: OC
Number of Containers: 9

Reported:
02/18/14 10:21

Client Sample ID: TB

Date/Time Sampled: 02/04/14 00:00

Laboratory Sample ID: 4B07082-05 (Water/Trip Blank)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
---------	--------	-----	----	-------	----------------------	--------	-----------	------

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	02/10/14 16:05	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	02/10/14 16:05	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	02/10/14 16:05	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	02/10/14 16:05	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	02/10/14 16:05	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	02/10/14 16:05	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	02/10/14 16:05	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	02/10/14 16:05	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	02/10/14 16:05	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	95.3 %		70-130		02/10/14 16:05	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	107 %		70-130		02/10/14 16:05	EPA 8260B	mtc	
Surrogate: Fluorobenzene	102 %		70-130		02/10/14 16:05	EPA 8260B	mtc	

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State Certifications: MD 275, WV 364

Converse

Project: ROSEMERGY'S

2738 West College Avenue

Project Number: 11-17788-02

Reported:

State College PA, 16801

Collector: OC

02/18/14 10:21

Project Manager: Orion Cook

Number of Containers: 9

Notes

2m This analysis has been reported to the MDL; therefore it is an estimated value.

Definitions

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

* P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.

< Represents "less than" - indicates that the result was less than the reporting limit.

MDL Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any reported result values that are less than the RL are considered estimated values.

RL Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

4B09082-01

Koseneray's

10/10/10

10/27/04

Joseph

FIELD REP. OKS

DATE 2-9-19

WEATHER Sunny 20°

PROJECT NO. 1-17788-02

ATTENTION Dis a OBC



FIRM RESPONSIBLE FOR SAMPLING
Converse Consultants

2738 West College Avenue
State College, Pennsylvania 16801

Fax 814-234-3255

42

[illegible]

Chain of Custody Receiving Document

Receiver: Page of Date/Time of this check: 2:30 PM 8/15 Sample Temperature: 24 Client: Converse Lab # 4B01082-02Received at Lab on ICE? ☐ * Sample Temperature when arrived at Lab: 24 Acceptable? ☐ * or In cool down process? ☐ *Custody Seals? Intact? COC/Labels on bottles agree? ☐ * Correct containers for all the analysis requested? ☐ * Matrix:

COC #	Number and Type of BOTTLES										Comments
	Poly Non-Pres.	Poly H2SO4	Poly HNO3	Amber H2SO4	Amber Non-Pres.	Poly NaOH	VOCS (Head space?)	Other	Properly Preserved	Bacti	
							2-4H ₂ O	<input type="checkbox"/> *	<input checked="" type="checkbox"/> *		
							1-4H ₂ O				

- * DEVIATION PRESENT:
- ☐ No Ice ()
 - ☐ Not at Proper Temperature ()
 - ☐ Wrong Container ()
 - ☐ Missing Information: ()

CLIENT CALLED:

YES ()

By Whom:

Date:

CLIENT RESPONSE:

Proceed with analysis; quality data ()

Will Resample ()

Provided Information ()

No Response; Proceed and qualified ()

Client Contact: Date:

* Comments:

Chain of Custody Receiving Document



CONVERSE CONSULTANTS
2738 West College Avenue
State College, PA 16801

WELL LOG

BORING NO.: MW-16

PROJECT: FORMER ROSEMERGY'S CONVENIENCE STORE LOCATION: Hawley, PA

SHEET 1 OF 1

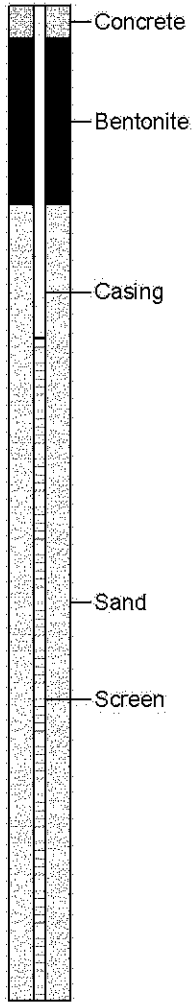
CLIENT: Lochglen LP

PROJ. NO.: 11-17788-02

BORING CONTRACTOR: Odyssey Environmental, Inc.

DRILLING RIG:

ELEVATION:

GROUNDWATER DATA				Boring	Screen	Casing				DATUM:	
DATE	TIME	DEPTH	CASING	Type	HSA	PVC	PVC				DATE START: 4/16/14
4/16/14	4:45pm	7'		Dia.	4"	2"	2"				DATE FINISH: 4/16/14
4/16/14	4:55pm	10'		Length	15'						DRILLER: Zach
				Slot							CONVERSE REP.: MK
Depth in Feet	Sample No.	Blow Counts	Recovery In Feet	PID Readings	USCS	DESCRIPTION					MW-16
0						Brown, silty, fine sandy GRAVEL —dry					
1											
2	16.1		2.0/5.0								
3											
4											
5				0		Brown, silty, fine SAND —dry					
6						Brown, fine SAND —wet					
7	16.2		2.5/5.0			Brown, sandy SILT —dry					
8											
9											
10				0		Brown, fine, sandy GRAVEL —wet					
11											
12	16.3		3.0/5.0			Fine, silty SAND, some gravel pockets of clay, brown with some green and red mottling					
13											
14											
15						End of boring					
16											
17											
18											
19											
20											



CONVERSE CONSULTANTS
2738 West College Avenue
State College, PA 16801

WELL LOG

BORING NO.: MW-15

PROJECT: FORMER ROSEMERGY'S CONVENIENCE STORE LOCATION: Hawley, PA

SHEET 1 OF 1

CLIENT: Lochglen LP

PROJ. NO.: 11-17788-02

BORING CONTRACTOR: Odyssey Environmental, Inc.

DRILLING RIG:

ELEVATION:

GROUNDWATER DATA					Boring	Screen	Casing				DATUM:
DATE	TIME	DEPTH	CASING	Type	HSA	PVC	PVC				DATE START: 4/17/14
4/17/14		10'		Dia.	4"	2"	2"				DATE FINISH: 4/17/14
				Length	15'						DRILLER: Zach
				Slot							CONVERSE REP.: MK

Depth in Feet	Sample No.	Blow Counts	Recovery In Feet	PID Readings	USCS	DESCRIPTION	
0						Dark brown SILT ---some sandstone cobbles	Concrete
1						Brown and gray mottled CLAYEY SILT	Bentonite
2	15.1		4.0/5.0				
3						Reddish-brown SILT	
4							Casing
5				0			
6							
7							
8	15.2		5.0/5.0			Brown fine SAND with gravel and cobbles ---wet to moist	Sand
9							Screen
10				0			
11							
12							
13	15.3		3.0/5.0				
14							
15							
16							
17							
18							
19							
20							



CONVERSE CONSULTANTS
2738 West College Avenue
State College, PA 16801

WELL LOG

BORING NO.: MW-14

PROJECT: FORMER ROSEMERGY'S CONVENIENCE STORE LOCATION: Hawley, PA

SHEET 1 OF 1

CLIENT: Lochglen LP

PROJ. NO.: 11-17788-02

BORING CONTRACTOR: Odyssey Environmental, Inc.

DRILLING RIG:

ELEVATION:

GROUNDWATER DATA				Boring	Screen	Casing				DATUM:
DATE	TIME	DEPTH	CASING	Type	HSA	PVC	PVC			DATE START: 4/17/14
4/17/14		15-18'		Dia.	4"	2"	2"			DATE FINISH: 4/17/14
				Length	21'					DRILLER: Zach
				Slot						CONVERSE REP.: MK

Depth in Feet	Sample No.	Blow Counts	Recovery In Feet	PID Readings	USCS	DESCRIPTION	
0						Dark brown, silty fine SAND	<p>Concrete</p> <p>Bentonite</p> <p>Casing</p> <p>Sand</p> <p>Screen</p>
1						Fine SANDSTONE	
2	14.1	2.0/5.0				Clayey SILT ---some brown and gray mottling	
3							
4						Gray, fine SANDSTONE	
5				0		Dark brown SILT ---some red mottling	
6							
7	14.2	5.0/5.0					
8						Dark brown SILT with some gravel ---red and gray mottling, dark brown, some gravel ---rock at 14' ---moist ---water at 15 to 18'	
9							
10				0			
11							
12	14.3	4.0/5.0					
13							
14							
15				0			
16							
17	14.4						
18							
19							
20							



CONVERSE CONSULTANTS
2738 West College Avenue
State College, PA 16801

WELL LOG

BORING NO.: MW-13

PROJECT: FORMER ROSEMERGY'S CONVENIENCE STORE LOCATION: Hawley, PA

SHEET 1 OF 1

CLIENT: Lochglen LP

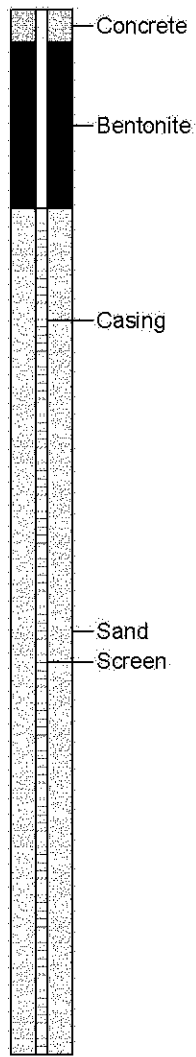
PROJ. NO.: 11-17788-02

BORING CONTRACTOR: Odyssey Environmental, Inc.

DRILLING RIG:

ELEVATION:

GROUNDWATER DATA					Boring	Screen	Casing				DATUM:
DATE	TIME	DEPTH	CASING	Type	HSA	PVC	PVC				DATE START: 4/17/14
4/17/14		10'		Dia.	4"	2"	2"				DATE FINISH: 4/17/14
				Length	15.75'						DRILLER: Zach
				Slot							CONVERSE REP.: MK

Depth in Feet	Sample No.	Blow Counts	Recovery In Feet	PID Readings	USCS	DESCRIPTION	
0						Dark brown SILT with some gravel fill	 <p>Concrete</p> <p>Bentonite</p> <p>Casing</p> <p>Sand</p> <p>Screen</p>
1							
2	13.1		4.0/5.0			Gray silty CLAY with brown mottles ---moist	
3						---2 inches gray sandstone cobble	
4							
5				0		Brown SILT with gray and red mottles ---dry	
6							
7	13.2		5.0/5.0				
8							
9							
10				0		Gray clayey SILT with some fine sand ---wet	
11						Brown SILT with red and gray mottles ---dry	
12							
13	13.3		5.0/5.0				
14						Brown silty SAND and gravel ---dry	
15				0		---wet	
16							
17	13.4		4.0/5.0				
18							
19							
20							



CONVERSE CONSULTANTS
2738 West College Avenue
State College, PA 16801

WELL LOG

BORING NO.: MW-12

PROJECT: FORMER ROSEMERGY'S CONVENIENCE STORE LOCATION: Hawley, PA

SHEET 1 OF 1

CLIENT: Lochglen LP

PROJ. NO.: 11-17788-02

BORING CONTRACTOR: Odyssey Environmental, Inc.

DRILLING RIG:

ELEVATION: 1,290 +/-

GROUNDWATER DATA					Boring	Screen	Casing				DATUM: Feet AMSL
DATE	TIME	DEPTH	CASING	Type	HSA	PVC	PVC				DATE START: 10/28/13
10/29/13	11:38am	14.13'	14.65'	Dia.	8"	2"	2"				DATE FINISH: 10/28/13
10/30/13	9:20am	5.13'	5.13'	Length	15'	11'	4'				DRILLER: Zach & Luke
				Slot		0.01"					CONVERSE REP.: OBC

Depth in Feet	Sample No.	Blow Counts	Recovery in Feet	PID Readings	USCS	DESCRIPTION	MW-12
0						Red GRAVEL, dry.	<p>Concrete</p> <p>Bentonite</p> <p>Casing</p> <p>Sand</p> <p>Screen</p>
1	12.1					Silty SAND with gravel, dry.	
2				0		Poorly-graded, dry.	
3	12.2					SILT.	
4				0		Light brown, silty SAND, damp.	
5	12.3						
6				0			
7	12.4					Saturated.	
8				0			
9	12.5						
10				0			
11	12.6					Dark brown.	
12				0			
13	12.7					Hard, dry.	
14				0			
15	12.8					End of boring.	
16							
17							
18							
19							
20							



CONVERSE CONSULTANTS
2738 West College Avenue
State College, PA 16801

WELL LOG

BORING NO.: MW-11

PROJECT: FORMER ROSEMERGY'S CONVENIENCE STORE LOCATION: Hawley, PA

SHEET 1 OF 1

CLIENT: Lochglen LP

PROJ. NO.: 11-17788-02

BORING CONTRACTOR: Odyssey Environmental, Inc.

DRILLING RIG: 7822DT

ELEVATION: 1,290 +/-

GROUNDWATER DATA					Boring	Screen	Casing					DATUM: Feet AMSL
DATE	TIME	DEPTH	CASING	Type	HSA	PVC	PVC					DATE START: 1/21/14
1/21/14	12:59pm	6.32'	14.73'	Dia.	8"	2"	2"					DATE FINISH: 1/21/14
1/21/14	2:08pm	2.95'		Length	15'	10"	5'					DRILLER: Zach & Luke
				Slot		0.01"						CONVERSE REP.: OBC

Depth in Feet	Sample No.	Blow Counts	Recovery in Feet	PID Readings	USCS	DESCRIPTION	MW-11
0					OL	TOP SOIL ORGANICS, damp.	
1	11.1				ML	Sandy SILT, reddish brown, damp.	Concrete
2				0			
3	11.2				CL	Silty CLAY, gray, damp.	Bentonite
4				0			
5	11.3				ML	Sandy SILT, brown, damp.	Casing
6				0			
7	11.4				ML	Silty GRAVEL layer.	Sand
8				0			
9	11.5				ML	---some cobbles.	Screen
10				0			
11	11.6				ML		
12				0			
13	11.7				ML		
14				0			
15	11.8					End of boring.	
16							
17							
18							
19							
20							



CONVERSE CONSULTANTS
2738 West College Avenue
State College, PA 16801

WELL LOG

BORING NO.: MW-10

PROJECT: FORMER ROSEMERGY'S CONVENIENCE STORE LOCATION: Hawley, PA

SHEET 1 OF 1

CLIENT: Lochglen LP

PROJ. NO.: 11-17788-02

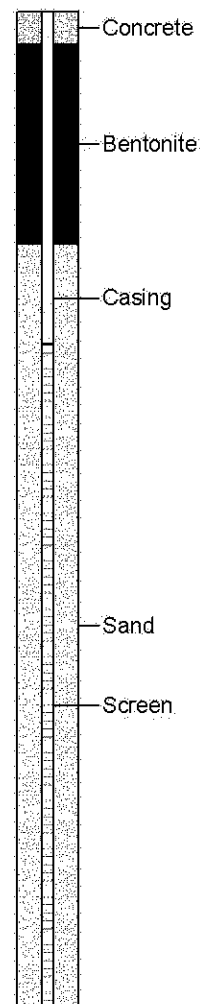
BORING CONTRACTOR: Odyssey Environmental, Inc.

DRILLING RIG: 7822DT

ELEVATION: 1,290 +/-

GROUNDWATER DATA					Boring	Screen	Casing				DATUM: Feet AMSL
DATE	TIME	DEPTH	CASING	Type	HSA	PVC	PVC				DATE START: 1/21/14
1/21/14	1:35pm	3.02'	14.25'	Dia.	8"	2"	2"				DATE FINISH: 1/21/14
1/21/14	2:06pm	2.74'		Length	15'	10"	5'				DRILLER: Zach & Luke
				Slot		0.01"					CONVERSE REP.: OBC

Depth in Feet	Sample No.	Blow Counts	Recovery in Feet	PID Readings	USCS	DESCRIPTION	MW-10
0					OL	TOP SOIL ORGANICS.	
1	10.1					Silty SAND, brown, damp.	
2				0			
3	10.2						
4				0			
5	10.3				SM	---more silt.	
6				0			
7	10.4						
8				0		---very saturated	
9	10.5						
10				0		Sandy SILT, brown, damp, with clay.	
11	10.6						
12				0			
13	10.7				ML	---hard, dry.	
14				0			
15	10.8						
16						End of boring.	
17							
18							
19							
20							





CONVERSE CONSULTANTS
2738 West College Avenue
State College, PA 16801

WELL LOG

BORING NO.: MW-9

PROJECT: FORMER ROSEMERGY'S CONVENIENCE STORE LOCATION: Hawley, PA

SHEET 1 OF 1

CLIENT: Lochglen LP

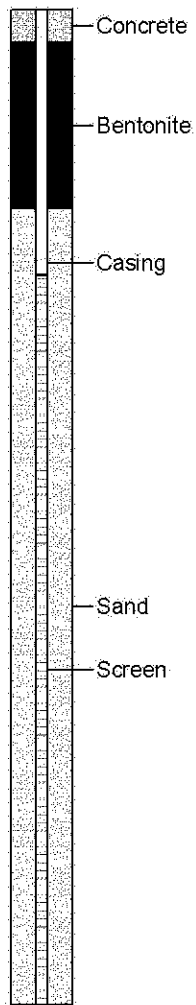
PROJ. NO.: 11-17788-02

BORING CONTRACTOR: Odyssey Environmental, Inc.

DRILLING RIG:

ELEVATION: 1,290 +/-

GROUNDWATER DATA					Boring	Screen	Casing				DATUM: Feet AMSL
DATE	TIME	DEPTH	CASING	Type	HSA	PVC	PVC				DATE START: 10/29/13
10/29/13	11:38am	14.13'	14.65'	Dia.	8"	2"	2"				DATE FINISH: 10/29/13
10/30/13	9:20am	5.13'		Length	15'	11'	4'				DRILLER: Zach & Luke
				Slot		0.01"					CONVERSE REP.: OBC

Depth in Feet	Sample No.	Blow Counts	Recovery in Feet	PID Readings	USCS	DESCRIPTION	MW-9
0						ORGANICS.	
1	9.1					Dark brown SILT, damp.	
2				0		Gravel, dry.	
3	9.2					Light brown, silty SAND with gravel, very damp.	
4				0		Less damp, reddish-brown.	
5	9.3					Very damp, saturated.	
6				0			
7	9.4					Gravel layer, hard drilling.	
8				0		Dark brown, sandy SILT, with gravel,	
9	9.5					Cobble.	
10				0		Very dense, damp.	
11	9.6						
12				0			
13	9.7						
14	9.8			0			
15						End of boring.	
16							
17							
18							
19							
20							



CONVERSE CONSULTANTS
2738 West College Avenue
State College, PA 16801

WELL LOG

BORING NO.: MW-8

PROJECT: FORMER ROSEMERGY'S CONVENIENCE STORE LOCATION: Hawley, PA

SHEET 1 OF 1

CLIENT: Lochglen LP

PROJ. NO.: 11-17788-02

BORING CONTRACTOR: Odyssey Environmental, Inc.

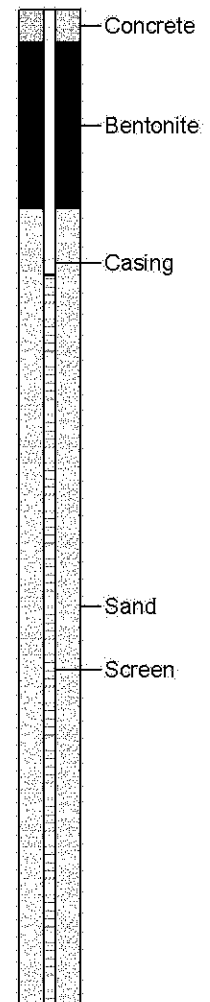
DRILLING RIG:

ELEVATION: 1,290 +/-

GROUNDWATER DATA

DATE	TIME	DEPTH	CASING	Type	Boring	Screen	Casing				DATUM: Feet AMSL
10/28/13	3:52pm	7.76'	14.62'	Dia.	8"	2"	2"				DATE START: 10/28/13
10/29/13	8:56am	6.82'		Length	5"	11'	4'				DATE FINISH: 10/28/13
10/30/13	9:01am	6.79'		Slot		0.01"					DRILLER: Zach & Luke
											CONVERSE REP.: OBC

Depth in Feet	Sample No.	Blow Counts	Recovery in Feet	PID Readings	USCS	DESCRIPTION	MW-8
0						ORGANICS.	
1	8.1					Brown, silty SAND, damp.	
2				0		Light brown, sandy SILT, very damp.	
3	8.2						
4				0		Gravel.	
5	8.3						
6				0		Silty SAND, some gravel.	
7	8.4						
8				0		Saturated.	
9	8.5					Rock. Refusal.	
10				0		Brown, sandy SILT with clay, damp.	
11	8.6						
12				0			
13	8.7						
14				0			
15	8.8					End of boring.	
16							
17							
18							
19							
20							





CONVERSE CONSULTANTS
2738 West College Avenue
State College, PA 16801

WELL LOG

BORING NO.: MW-7

PROJECT: FORMER ROSEMERGY'S CONVENIENCE STORE LOCATION: Hawley, PA

SHEET 1 OF 1

CLIENT: Lochglen LP

PROJ. NO.: 11-17788-02

BORING CONTRACTOR: Odyssey Environmental, Inc.

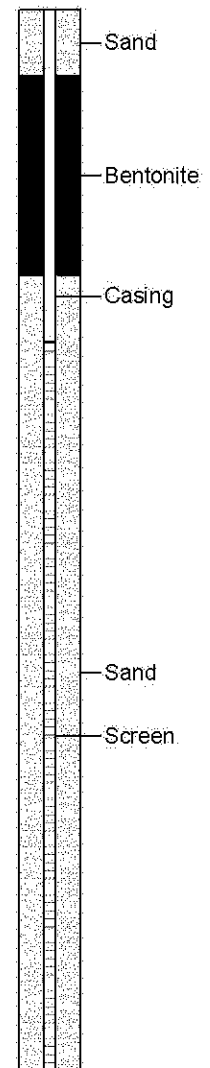
DRILLING RIG:

ELEVATION: 1,290 +/-

GROUNDWATER DATA

DATE	TIME	DEPTH	CASING	Type	Boring	Screen	Casing				DATUM: Feet AMSL
10/29/13	3:52pm	Dry	15.62'	Dia.	8"	2"	2"				DATE START: 10/29/13
10/30/13	8:45am	Dry	14.99'	Length	16'	11'	5'				DATE FINISH: 10/29/13
				Slot		0.01"					DRILLER: Zach & Luke
											CONVERSE REP.: OBC

Depth in Feet	Sample No.	Blow Counts	Recovery in Feet	PID Readings	USCS	DESCRIPTION	MW-7
0						ASPHALT.	
1	7.1					GRAVEL FILL.	
2				0		Silty SAND with gravel, red, dry.	
3	7.2						
4				0		Sandy SILT, some gravel, light brown, damp.	
5	7.3						
6				0			
7	7.4						
8				0			
9	7.5					Silty SAND, some gravel, light brown, damp.	
10				0			
11	7.6						
12				7.2			
13	7.7					Saturated, more sand.	
14				13.8			
15	7.8					Damp, cobble.	
16						End of boring.	
17							
18							
19							
20							





CONVERSE CONSULTANTS
2738 West College Avenue
State College, PA 16801

WELL LOG

BORING NO.: MW-1R

PROJECT: FORMER ROSEMERGY'S CONVENIENCE STORE LOCATION: Hawley, PA

SHEET 1 OF 1

CLIENT: Lochglen LP

PROJ. NO.: 11-17788-02

BORING CONTRACTOR: Odyssey Environmental, Inc.

DRILLING RIG:

ELEVATION: 1,290 +/-

GROUNDWATER DATA					Boring	Screen	Casing				DATUM: Feet AMSL
DATE	TIME	DEPTH	CASING	Type	HSA	PVC	PVC				DATE START: 10/29/13
10/30/13	8:12am	12.11'	14.61'	Dia.	8"	2"	2"				DATE FINISH: 10/29/13
				Length	15'	11'	4'				DRILLER: Zach & Luke
				Slot		0.01"					CONVERSE REP.: OBC

Depth in Feet	Sample No.	Blow Counts	Recovery In Feet	PID Readings	USCS	DESCRIPTION	MW-1R
0						See soil log of MW-1.	Sand
1							Bentonite
2							
3						Soil had a strong petroleum odor and registered above 10 on the PID. Soil was containerized for proper disposal.	Casing
4							
5							
6							
7							
8							
9							Sand
10							Screen
11							
12							
13							
14							
15						End of boring.	
16							
17							
18							
19							
20							

Soil Boring # 008; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS	
Project: Rosemergy's Convenient Store				Date Started: 13 March 2012	
Client: Ms. Jan Hoadley				Date Finished: 13 March 2012	
Purpose: Site Characterization					
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 008	
Driller: Odyssey Environmental				Job Number:	
Geologist: David Swetland				Sheet: 1	
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC TOC/GL Surface
		1040	1110	15' ft bgs	
Depth (feet)	Sample/ Sleeve #	Blow Counts	Visual Log Description	Lithologic Description	Notes
0 1 2 3 4 5	1		Recovered: low recovery PID : 0.9 ppm @ 6" of sub base	0-5' bgs mostly gravel and stone @ 6" of sub base, brown-silty sand/ gravel;	
5 6 7 8 9 10	2		Recovered: 40% PID: 1498 ppm @10', 1291 @ 15'	5'-10' bgs Top 2' gray/brown wet silty sand, bottom half of sand more silty and wet	
10 11 12 13 14 15	3		Recovered: Full PID: 1472 ppm @ 10'- 12'.5", 240 ppm @12'.5"- 15'	10'-12'.5"- sandy, gray wet; 12'.5"-15' - Glacial fill, bottom silty and wet Pebble size: ¾ to 1mm	Sampled @ 5-7' bgs
15 16 17 18 19 20					

Soil Boring # 009; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 13 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 13 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 009		
Driller: Odyssey Environmental				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		1110	1145	15' ft bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4 5	1		Recovered: 3" PID : 720 ppm @ 2-4'	0-6" asphalt sub base @ 6"-3' red brown sand @ 3'-5' silty gray sand		
5 6 7 8 9 10	2		Recovered: 5' 5" PID: 1779 ppm @ 0-2', 1750 ppm @ 2-5'	5-7' silty sand, wet 7-10' brown, sandy, small wet gravel		
10 11 12 13 14 15 16 17 18 19 20	3		PID: 1410 ppm @ 15-17', 35 ppm @ 18-20'	10-12' - very wet, brown and sandy 12-13' - sandy, wet, brown with rock 13-15' - brown, silty glacial till	Sample collected @ 10' bgs	

Soil Boring # 010; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 13 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 13 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 010		
Driller: Odyssey Environmental				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		1145	1225	15' feet bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4 5	1		Recovered: 40" PID: 1380 ppm @ 4-5'	0-6"- sub base/asphalt 6"-4'- reddish glacial till; small, hard, dry gravel 4'-5'- sandy brown/gray, wet		
5 6 7 8 9 10	2		Recovered: 40" PID: 1400 ppm @ 5-7' and 1505 ppm @ 7-10'	5-7'- very wet, sandy, gray, some gravel 7-10'- brownish gray, some gravel, sandy silt, till		
10 11 12 13 14 15	3		Recovered: 4' PID: 650 ppm @ 10.6"- 13', 370 ppm @ 14-15'	10-10.6" - sandy, wet, gravel 10.6"-13' - hard 13-14'- loose sandy gray/brown 14-15'- brownish till, gravel, some clay, sandy	Sample collected @ 8-10' bgs @ 1210	
15 16 17 18 19 20						

Soil Boring #011; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 13 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 13 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 011		
Driller: Odyssey Environmental				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		1225	1250	15' feet bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4 5	1		Recovered: 36" PID: 1480 ppm @ 3'-5'	0-6" – asphalt, sub base material 6"- 3' – brownish till, small gravel, hard 3'-5' – grayish/brown sandy silt, some clay; small amount of organic material; moist/wet		
5 6 7 8 9 10	2		Recovered: 30" PID: 1580 ppm @ 5-6' and 826 ppm @ 6-10'	5-6' – silty, sandy, gray; some gravel, wet 6-10' – brownish, sandy till; hard, wet		
10 11 12 13 14 15	3		Recovered: 40" PID: 1151 ppm @ 0-2.5' and 220 ppm @ 2.5'-5'	10'-12'.5" – brownish/gray till, hard, sandy, wet with some gravel 12'.5"-15' – brownish/gray till, hard, wet	Sample collected @ 6'-8' bgs. @ 1235	
15 16 17 18 19 20						

Soil Boring # 012; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 13 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 13 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 012		
Driller: Odyssey Environmental				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		1250	1335	15' feet bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4 5	1		Recovered: 40" PID: 355 ppm @ 3'.5"-5'	0-1' – asphalt sub bsae 1'-3.5' – brownish gray till, some gravel 3'.5"-5' – dry down to 4.5"-5'		
5 6 7 8 9 10	2		Recovered: 36" PID: 1060 ppm @ 5'-7'.5" and 1430 ppm @ 7'.5"-10'	5'-7'.5" – grayish, silty, sandy, wet, some gravel 7'.5"-10' – grayish, brownish till, silt, sandy, wet		
10 11 12 13 14 15	3		Recovered: 40" PID: 152 ppm @ 10'- 12'.5" and 10 ppm @	10'-11'.5" – grayish brown, silty sand with gravel, wet 11.5"-15' – brownish till with gravel, wet	Sample collected @ 8-10 bgs @1310	
15 16 17 18 19 20						

Soil Boring # 013; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 13 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 13 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 013		
Driller: Odyssey Environmental				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		-	-	15' feet bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description		Lithologic Description	Notes
0 1 2 3 4 5	1		Recovered: 30" PID: 194 ppm @ 0.6"-5'		0-6" – asphalt sub bsae 6"-5' – reddish till, some gravel, wet @ 4.5'	
5 6 7 8 9 10	2		Recovered: 40" PID: 1720 ppm @ 5-7.5" and 1490 ppm @ 7.5"-10'		5'-7'.5" – sandy till, brownish gray 7'.5"-10' – silty clay, some sand, reddish brown	
10 11 12 13 14 15	3		Recovered: 54" PID: 485 ppm @ 10'-12'.5" and 260 ppm @ 12'.5"-15'		10'-12'.5" – wet silty till, brownish, gravel, some sand and clay 12'.5"-15' – wet silty till, brownish, some gravel, less sand, clay tightly packed	Sample collected @ 5'-7' bgs
15 16 17 18 19 20						

Soil Boring #014; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 13 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 13 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 014		
Driller: Odyssey Environmental				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		1350	1420	15' feet bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4 5	1		Recovered: 36" PID: 11 ppm @ 3'.5"-5'	0-6" – sub base/asphalt 6"-3'.5" – reddish till, stone, gravel 3'.5"-5' – grayish/brown, sandy, stone, gravel		
5 6 7 8 9 10	2		Recovered: 48" PID: 1300 ppm @ 5'-7'.5" and 540 ppm @ 7'.5"-10'	5'-7'.5" – brownish till, sandy, silt-less 7'.5"-10' – brownish till, less sandy, more silt and clay		
10 11 12 13 14 15	3		Recovered: 40" PID: 125 ppm @ 10'-12' and 17ppm @ 12'.5"-15'	10'-12' - brownish till, tight silt, clay, wet 12'-12.5 – rock, sandstone, light gray color 12'.5"-15 – sandy, wet, some silt	Sample collected @ 5'-7' bgs.	
15 16 17 18 19 20						

Soil Boring # 015; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 13 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 13 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 015		
Driller: Odyssey Environmental				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		1420	1445	15' feet bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4 5	1		Recovered: 36" PID: 5 ppm @ 3'.5"-5'	0-6" – sub base, asphalt 6"-3'.5" – reddish till, gravel, some silt 3'.5"-5' – grayish/brown, sandy silt, some gravel		
5 6 7 8 9 10	2		Recovered: 48" PID: 0.0 ppm @ 5'-6'.5" and 0.4 ppm @ 6'.5"-10'	5'-6'.5" – wet, sandy, silt, some gravel 6'.5"-10' – brownish/gray till with silt, sand, and hard, wet clay		
10 11 12 13 14 15	3		Recovered: 60" PID: 0 ppm @ 10-13' and 0.4 ppm @ 13'-15'	10'-13' – brownish/reddish till, gravel, some dry sand 13'-15' – brownish till, some silt, clay, little sand	Sample collected @ 5'-7' bgs. @ 1440	
15 16 17 18 19 20						

Soil Boring # 016; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 13 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 13 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 016		
Driller: Odyssey Environmental				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		1445	1520	15' feet bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4 5	1		Recovered: 30" PID:569 ppm @ 4'.5" bgs	0-1' – asphalt sub base. 1'-3'.5" brownish/reddish till, gravel, some sand, dry 3'.5"-5' – gray/brown sand, silt, little clay, wet		
5 6 7 8 9 10	2		Recovered: 40" PID:1382 ppm @ 5-7'.5" bgs and 1556 ppm @ 7'.5"-10' bgs	5'-7'.5" gray/brownish, silty, sand, wet, some gravel 7'.5"-10' – brownish till, some sand @ 4', wet silt and tight clay material		
10 11 12 13 14 15	3		Recovered: 40" PID:1504 ppm @ top, 225 ppm @ bottom, 0-5' bgs	10-15' – brownish till, sandy silt dry/tight	Sample collected @ 8'-10' bgs @ 1515	
15 16 17 18 19 20						

Soil Boring #017; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 13 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 13 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 017		
Driller: Odyssey Environmental				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		1520	1600	15' feet bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4 5	1		Recovered: 30" PID: 384 ppm @ 4'-5' bgs	0-1' – asphalt sub base material 1'-4' – reddish till with gravel silt, some sandy stone 4'-5' – gray/brownish sandy silt		
5 6 7 8 9 10	2		Recovered: 40" PID: 1635 ppm @ 5'-7'.5" bgs and 1889 ppm @ 7'.5"-10' bgs	5'-7'.5" – wet, sandy, more silt, loose material; grayish/brown 7'.5"-10' – wet, sandy, more silt/clay/tight material		
10 11 12 13 14 15	3		Recovered: 36" PID: 684 ppm @ 10'- 13'.5" and 164 ppm @ 13'.5"-15' bgs	10'-13'.5" – brownish, wet, sandy/silt till with clay 13'.5"-15' – brownish wet fill, tight with clay	Sampled @ 8'-10' @ 1545	
15 16 17 18 19 20						

Soil Boring # 018; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 14 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 14 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 018		
Driller: Odyssey Environmental				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		0800	0830	15' feet bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4 5	1		Recovered: 40" PID: 184 ppm @ 3'.5"-5"	0-6" – sub base asphalt 6"-3'.5" – reddish till, dry, gravel 3'.5"-5' – grayish/brown, sandy, some silt, clay, wet @ 4'.5"	Changed over geo-probe to larger boring	
5 6 7 8 9 10	2		Recovered: 54" PID: 1265 ppm @ 5'-7'.5" bgs and 2704 @ 7'.5"-10' bgs	5'-7'.5" – brownish gray sand, silty, clay, wet 7'.5"-10' – brownish gray sand, silt, clay, tight and wet		
10 11 12 13 14 15	3		Recovered: 60" PID: 1960 ppm @ 10'- 12'.5" bgs and 20.1"	10'-12'.5" – brownish/gray sand, silt, clay, wet tight 12'.5"-15' – brownish till, some gravel	Sample collected @ 0815 @ 8'- 10'bgs	
15 16 17 18 19 20						

Soil Boring # 019; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS	
Project: Rosemergy's Convenient Store				Date Started: 14 March 2012	
Client: Ms. Jan Hoadley				Date Finished: 14 March 2012	
Purpose: Site Characterization					
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 019	
Driller: Odyssey Environmental				Job Number:	
Geologist: David Swetland				Sheet: 1	
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC TOC/GL Surface
		0830	0850	15' feet bgs	
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes
0 1 2 3 4 5	1		Recovered: 36" PID: 47.5 ppm @ 0-6" bgs	0-6" – asphalt sub base 6"-3'.5" – reddish till, gravel, some silt 3'.5"-5' – black/gray sand, moist, some silt	In front of building door
5 6 7 8 9 10	2		Recovered: 56" PID: 2806 ppm @ 5'-7'.5" bgs and 2325 ppm @ 7'.5"-10' bgs	5'-7'.5" – Gray/brown sand, silt, little clay, some gravel 7'-10' – brownish sand, silt, little clay, some gravel	
10 11 12 13 14 15	3		Recovered: 48" PID: 2348 ppm @ 10'-12' and 704 ppm 12'-15' bgs	10'-12' – brownish sandy, silt, more clay, moist 12'-15' – brownish till, gravel, tight, some sand	Sample collected @ 5'-7' bgs @0840
15 16 17 18 19 20					

Soil Boring # 020; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 14 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 14 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 020		
Driller: Odyssey Environmental				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		0850	0918	15' feet bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4 5	1		Recovered: PID: 3121 ppm @ 2'.5"-5'	0-6" – substrate asphalt 6"-2'.5" – reddish till, gravel 2'.5"-5' – grayish/brown sand, silt, some clay' moist at 4'.5" bgs		
5 6 7 8 9 10	2		Recovered: 48" PID: 2817 ppm @ 5'-6' bgs and 2894 ppm @ 6'- 10' bgs	5'-6' – grayish/brown sand, silt, some clay 6'-10' – brownish sand, silt, clay, some gravel, moist and wet		
10 11 12 13 14 15	3		Recovered: 36" PID: 1910 ppm @ 10'-14' bgs and 804 ppm @ 14'- 15' bgs	10'-14' – brownish sand, silt, clay, tight gravel, moist 14'-15' – brownish till, tight, some gravel, moist	Sample collected @ 4'-5' bgs. @ 0910	
15 16 17 18 19 20						

Soil Boring # 021; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS	
Project: Rosemergy's Convenient Store				Date Started: 14 March 2012	
Client: Ms. Jan Hoadley				Date Finished: 14 March 2012	
Purpose: Site Characterization					
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 021	
Driller: Odyssey				Job Number:	
Geologist: David Swetland				Sheet: 1	
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC TOC/GL Surface
		0918	0950	11'.5" feet bgs	
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes
0 1 2 3 4 5	1		Recovered: 36" PID: 3289 ppm 2'-5' bgs	0-6" – asphalt sub base 6"-2' – reddish fill, gravel, dry 2'-5' – grayish/brown sandy, silt, some organics; wet @ 4.5 bgs, some gravel	About 15' back from SB-020
5 6 7 8 9 10	2		Recovered: 40" PID: 3317 ppm @ 5'-6' bgs and 2296 ppm @ 6'- 10'	5'-6' – grayish brown sandy silt, some gravel 6'-10' – brownish sand, silty clay, very wet, some gravel, tight	
10 11 12 13 14 15	3		Recovered: 12" PID: 2313 ppm @ 10'- 11'.5" bgs	10'-11.5" – brownish, sandy, silty, some clay, gravel, wet	Refusal @ 11.5 bgs Sample collected from 5'-7' bgs @0935
15 16 17 18 19 20					

Soil Boring # 022; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS	
Project: Rosemergy's Convenient Store				Date Started: 14 March 2012	
Client: Ms. Jan Hoadley				Date Finished: 14 March 2012	
Purpose: Site Characterization					
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 022	
Driller: Odyssey				Job Number:	
Geologist: David Swetland				Sheet: 1	
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC TOC/GL Surface
		0950	1015	16' feet bgs	
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes
0 1 2 3 4 5	1		Recovered: 36" PID: 3261 ppm @ 4.5 bgs	0-6" – sub base asphalt 6"-2.5' – reddish till, gravel, some sand, dry 2.5'-5' – grayish/brown sand silt, some clay, wet; @ 4'.5"bgs some gravel	
5 6 7 8 9 10	2		Recovered: 36" PID: 3384 ppm @ 0-2'.5" and 1683 ppm @ 2'.5"-5' bgs	5'-10' – gray/brown, wet sand, silt, clay, some gravel	
10 11 12 13 14 15	3		Recovered: 10' PID: 1730 ppm @ 0-6" bgs	10'-16' – brown sand, silt, more clay tigh and moist	Recovery refusal @ 11' Sample collected @ 5'-7' bgs @ 1000
15 16 17 18 19 20					

Soil Boring # 023; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS	
Project: Rosemergy's Convenient Store				Date Started: 14 March 2012	
Client: Ms. Jan Hoadley				Date Finished: 14 March 2012	
Purpose: Site Characterization					
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 023	
Driller: Odyssey				Job Number:	
Geologist: David Swetland				Sheet: 1	
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC TOC/GL Surface
		1015	1035	15' feet bgs	
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes
0 1 2 3 4 5	1		Recovered: 36" PID: 2614 ppm @ 0-2' .5" and 2544 @ 4'-5' bgs	0-6" – asphalt sub base 6"-2'.5" – reddish till, geavel, dry, some silt 2'.5"-5' – brownish sand, silt, gravel, some clay, and wet @ 2614ppm	15' west of SB-020 alongside RT. 590
5 6 7 8 9 10	2		Recovered: 40" PID: 2486 @ 2'.5" bgs	0-7'.5" – brownish sand/silt, gravel, some clay	
10 11 12 13 14 15	3		Recovered: 60" PID: 341 ppm @ 0-2" bgs and 56 ppm @ 4'-5' bgs	10'-12' – Brownish, very wet sandy silt with clay; some gravel 12'-14' – brownish till, very tight, some gravel, dry 14'-15' – brownish sandy silt, some clay, wet	Sample collected 5'-7' bgs @1030
15 16 17 18 19 20					

Soil Boring # 024; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS	
Project: Rosemergy's Convenient Store				Date Started: 14 March 2012	
Client: Ms. Jan Hoadley				Date Finished: 14 March 2012	
Purpose: Site Characterization					
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 024	
Driller: Odyssey				Job Number:	
Geologist: David Swetland				Sheet: 1	
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC TOC/GL Surface
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes
0 1 2 3 4 5	1		Recovered: 36" PID: 819 ppm @ 3'.5"-5' bgs	0-6" – asphalt sub base 6"-3'.5" – reddish till with gravel, dry 3'.5" – gray/brown sand, silty, some wet clay @ 4'.5"	
5 6 7 8 9 10	2		Recovered: 36" PID: 3009 ppm @ 0-2'.5" bgs and 2516 ppm @ 2'.5"-5' bgs	5'-7'.5" – brownish gray sand, silt, with some clay; wet, gravel, some organics 7'.5"-10' – brownish/gray sand, silty, some clay and wet gravel	
10 11 12 13 14 15	3		Recovered: 30" PID: 2079 ppm @ 0-2'.5" bgs and 571 ppm @ 2'.5"- 5' bgs	10'-12'.5" – brownish sand, silt, some clay, wet, some gravel 12'.5"-15' – brownish till, hard, tight, some gravel, dry	Sample collected @ 5'-7' bgs. @ 1045
15 16 17 18 19 20					

Soil Boring # 025; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 14 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 14 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 025		
Driller: Odyssey				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		1100	1120	15' feet bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4 5	1		Recovered: 36" PID: 2719 ppm @ 3'.5-5' bgs	0-6" – asphalt sub base 6"-3'.5" – reddish till, gravel, dry 3'.5"-5' – grayish sand, silt, some organics, clay and moist at 4'.5" bgs		
5 6 7 8 9 10	2		Recovered: 36" PID: 3226 ppm @ 0-2'.5" bgs and 2250 ppm @ 7'.5"-10" bgs	5'-7'.5" – grayish brown sand, silty, more clay, some gravel, moist 7'.5"-10' – brownish, sandy silt, tight, more clay, some gravel		
10 11 12 13 14 15	3		Recovered: 48" PID: 2261 ppm @ 0-1' bgs 420 ppm @ 1'-5' bgs	10'-11' – brownish, sandy silt with clay, tight moist, some gravel 11'-15' – brownish till, very tight, dry, some gravel	Sample collected @ 5'-7' bgs @ 1115	
15 16 17 18 19 20						

Soil Boring # 026; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 14 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 14 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 026		
Driller: Odyssey				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		1120	1145	15' feet bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4 5	1		Recovered: 24" PID: 13.6 ppm @ 1'-5' bgs	0-1' – asphalt sub base 1'-5' – brownish/red till, gravel; larger sandstone rock, dry		
5 6 7 8 9 10	2		Recovered: 40" PID: 2635 ppm @ 0-2'.5" bgs, and 2791 ppm @ 2'.5" bgs	5'-7'.5" – brownish/gray sand, moist, some silt and clay; gravel 7'.5"-10" – brownish sand, moist, silt and clay; some gravel		
10 11 12 13 14 15	3		Recovered: recovery PID: 2761 ppm @ 0-2' bgs and 50.6 ppm @ 2'-5' bgs	10'-12' – brownish sand, silty, with some clay and gravel; moist 12'-15' – brown till, very tight with some gravel; dry	Sample collected @ 8'-10' bgs 1140	
15 16 17 18 19 20						

Soil Boring # 027; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 14 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 14 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB - 027		
Driller: Odyssey				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		1145	1200	15' feet bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4 5	1		Recovered: 40" PID: 39.3 ppm @ 4'-5' bgs	0-6" – asphalt sub base 6"-4' – brownish sand, silt with gravel; hand till dry 4'-5' – brownish/gray sand, less clay, wet at bottom	5 feet east of island in parking lot	
5 6 7 8 9 10	2		Recovered: 48" PID: 2694 ppm @ 0-2' 5" bgs and 2601 ppm @ 2' 5"-5' bgs	5'-10' – brownish sand, silt, some clay and gravel; some gravel, wet		
10 11 12 13 14 15	3		Recovered: 40" PID: 2359 ppm @ 0-2' bgs and 369 ppm @ 2'-5'	10'-12' – brown till, tight with some gravel, wet 12'-15' – brownish sandy till, with some clay, wet; drier than top, tight material	Sample collected at 5'-7' bgs @ 1200	
15 16 17 18 19 20						

Soil Boring # MW1; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS	
Project: Rosemergy's Convenient Store				Date Started: 14 March 2012	
Client: Ms. Jan Hoadley				Date Finished: 14 March 2012	
Purpose: Site Characterization					
Contractor: Bluestone Environmental Inc.,				Boring Number: SB – MW1	
Driller: Odyssey				Job Number:	
Geologist: David Swetland				Sheet: 1	
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC TOC/GL Surface
		1240	1630	14' feet bgs	
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes
0 1 2 3 4 5	1		Recovered: 48" PID: 14.8 ppm @ 0-6" bgs	0-6" – asphalt sub base 6"-5' – brown sand with silt, some gravel; slightly moist at 5'	
5 6 7 8 9 10	2		Recovered: 36" PID: 2719 ppm @ 10' bgs	Brownish/gray sand; rock frag @ 8'; moist throughout	Depths not recorded
10 11 12 13 14 15	3		Recovered: refused @ 14' PID: 2261 ppm @ 13' bgs and 19.5 ppm @ 14' bgs	Brown sand, wet throughout	Depths not recorded 1345 – augured to 20' bgs 1430 – spoke to Dave Swetland and decided to set screen @ 15' bgs, up to 3' bgs 1600 – used 2 bags of sand to backfill to 15' bgs and 8 bags of sand to fill well to 2' bgs 1630 – off site; Odyssey completed concrete clean up
15 16 17 18 19 20					

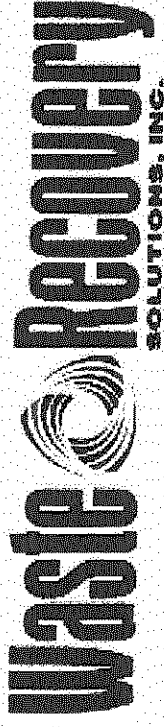
Soil Boring # MW2; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS	
Project: Rosemergy's Convenient Store				Date Started: 15 March 2012	
Client: Ms. Jan Hoadley				Date Finished: 15 March 2012	
Purpose: Site Characterization					
Contractor: Bluestone Environmental Inc.,				Boring Number: SB – MW2	
Driller: Odyssey				Job Number:	
Geologist: David Swetland				Sheet: 1	
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC TOC/GL Surface
		0730	0830	20' feet bgs	
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes

0 1 2 3 4 5	1		Recovered: 24" PID: 98.4 ppm @ 4'-5' bgs	0-5" – asphalt sub base 6"-5' – reddish till with gravel, loose material	In front of store building; soil boring down to 20' bgs
5 6 7 8 9 10	2		Recovered: 40" PID: 1187 ppm @ 0-2'.5" bgs and 1725 ppm @ 2'.5"-5'	0-7'.5" – grayish sandy silt, some gravel and clay 7'.5"-10' – some organic material/wood, wet at top and throughout	
10 11 12 13 14 15	3		Recovered: 36" PID: 24.5 ppm @ 12'-13' bgs	10'-12' – gray/brown sand, silt, some clay, wet 12'-13' – brown till, tight, some gravel	Refusal @ 13' bgs w/geo probe; switched rig to augers 0830 – switched rig to augers to drill out well 0915 – drilled to 15' bgs 0930 – Dave Swetland on site; 0945 – screen set and began sand pack 1030 – sand packed to 2'bgs; used a total of 8 bags of sand 1035 – set up on MW-3 and began auger
15 16 17 18 19 20					

Soil Boring # MW6; Soil Boring Log

Bluestone Environmental Inc.,				SOIL BORING LOGS		
Project: Rosemergy's Convenient Store				Date Started: 19 March 2012		
Client: Ms. Jan Hoadley				Date Finished: 19 March 2012		
Purpose: Site Characterization						
Contractor: Bluestone Environmental Inc.,				Boring Number: SB – MW6		
Driller: Odyssey				Job Number:		
Geologist: David Swetland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		0830	-	20' feet bgs		
Depth (feet)	Sample/ Sleeve #s	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4 5	1		Recovered: 40" PID: 20.8 ppm @ 1'-1'.5" bgs	0-1' – back fill/ sub base stone 1'-1'.5" – brownish till , tight, some gravel, dry	Location moved 10' west due to possible addition to building in future Geoprobe boring to 15'	
5 6 7 8 9 10	2		Recovered: 55" PID: 24.1 ppm @ top of boring, 19.7ppm @ bottom	5'-9'.5" – brownish till, dry, tight, some gravel, fine sand, and stone; gray/brown in color 9'.5"-10' – brown sandy material with small gravel; moist		
10 11 12 13 14 15	3		Recovered: 24" PID: 20.7 ppm@ top of boring and 10.4 @ bottom	10'-15' – brown fine sand; some clay; wet gravel		
15 16 17 18 19 20	4		Recovered: 12' PID: 10.8 ppm @ 0-1bgs	15'-16' – brown fine sand, wet, some gravel	Refusal @ 16' Set well @ 18' bgs w/ 15' of screen	



343 King Street, Myerstown, PA 17067

PA DEP Facility Permit# 301333 Expires May 2022

CERTIFICATE OF DISPOSAL

Generator Name: LochGen Lp

Manifest Document #: LG-042414

Date Received: 05/01/2014

Material Received: 7 x 55gal

Material Weight: 5394lbs

Material Description: Drill Cuttings

Broker Name: Bluestone Environmental

Approval Code: LFI-18144

Date Disposed: 05/01/2014

Material Disposed: 7 x 55gal

Material Weight: 5394lbs

On the above date the material described was accepted and disposed at the Waste Recovery Solutions facility for the purpose of treatment (OWT), landfill disposal (LFD) or incineration (INI). All materials accepted are managed in accordance with federal, state and local regulations.

Soil Gas Data Unit Conversion

The analytical method measures constituent concentrations in ppbv or parts per million per volume (ppmv). Concentrations in mg/m^3 are calculated using the following formula:

$$1 \text{ ppmv} = (\text{MW}/\text{ATCF}) (\text{mg}/\text{m}^3)$$

where:

MW = molecular weight of the compound

ATCF = appropriate temperature conversion factor (ATCF).

The ATCF is temperature dependent, and calculated using the ideal gas law:

$$\text{ATCF} = ^\circ\text{K} \times 0.0821$$

where:

$$^\circ\text{C} = (5/9)(^\circ\text{F}-32)$$

$$^\circ\text{K} = ^\circ\text{C} + 273$$

An example calculation for a hypothetical sample is presented below. Benzene was reported at concentrations of 2.5 ppbv and $8 \mu\text{g}/\text{m}^3$ ($0.008 \text{ mg}/\text{m}^3$).

If:

Benzene = 2.5 ppbv (0.0025 ppmv)

Benzene MW = 78.11 grams per mole

Laboratory assumed sample temperature = 20°C

then:

$$^\circ\text{K} = 20^\circ\text{C} + 273 = 293^\circ\text{K}$$

$$\text{ATCF} = 293^\circ\text{K} \times 0.0821 = 24.06$$

$$0.0025 \text{ ppmv} = 0.0025 (78.11/24.06) \text{ mg}/\text{m}^3 = 0.00811 \text{ mg}/\text{m}^3.$$

However, the laboratory assumed temperature is generally not the temperature at the time or location of sample collection. The sampling temperature is assumed to be 11.1°C , the average soil temperature used by PADEP as an input parameter for the Johnson and Ettinger Model (PADEP, 2004: Table 8). Using the average assumed temperature, the benzene concentration in mg/m^3 is:

$$^{\circ}\text{K} = 11.10^{\circ}\text{C} + 273 = 284.1^{\circ}\text{K}$$

$$\text{ATCF} = 284.1^{\circ}\text{K} \times 0.0821 = 23.32$$

$$0.0025 \text{ ppmv} = 0.0025 (78.11/23.32) \text{ mg/m}^3 = 0.00837 \text{ mg/m}^3.$$

The calculated concentration in mg/m^3 using the assumed average soil temperature is greater than the calculated concentration using the laboratory assumed sample temperature. The calculations demonstrate an inverse relationship between temperature and calculated concentrations. However, the temperature corrected result is only 3 percent different than the reported concentration.

No reported concentration was within 3 percent of the RMSC_{SG} .



TEMPORARY ACCESS AGREEMENT

THIS AGREEMENT dated this 20 day of ^{December}~~November~~, 2013, by and between Larry Jensen and Wanetta Jensen or assign ("Grantor") and Converse Consultants ("Grantee"). Grantor is the Owner of the property located adjacent to 1623 Route 590, Hawley, Pike County, PA being tax parcel # 12.00-01-18 ("Property"). Grantee is an environmental consulting firm.

In consideration of the above and the mutual covenants and agreements contained in this Agreement, the Grantor and Grantee agree as follows:

1. Purpose of Temporary Access. In support of completing a cleanup under the Land Recycling and Environmental Remediation Standards Act ("Act 2") of the Former Rosemery Convenient Store facility located at 1623 Route 590, Hawley, Pike County, PA ("Site") in accordance with the requirements of the Pennsylvania Department of Environmental Protection ("PADEP"), Grantee intends to perform site characterization activities in accordance with the PADEP approved Work Plan and subsequent discussions that have completed with PADEP and the Pennsylvania Underground Storage Tank Indemnification Fund (USTIF). Grantee intends to perform such characterization activities and monitoring to obtain a release of liability under Act 2. Activities are expected to include installation of monitoring wells, collection of groundwater samples, and other related activities ("Assessment Activities").

2. Grant of Authority and Temporary Access. The Grantor represents and warrants that they alone have the authority and agree to grant temporary access to the Property for Grantee or its agents and/or representatives to complete the Assessment Activities on the Property. The Grantor hereby authorizes temporary access to the Property to Grantee and its agents and/or representatives for the purpose of conducting the Assessment Activities.

3. Notice and Reports. Grantee and its agents and/or representatives shall give Grantor advance notice of Assessment Activities to be performed on the Property. In addition, Grantor shall be timely provided with a copy of all data submitted to PADEP.

4. Term of Agreement. The term of this Agreement will continue until such time as the Assessment Activities have been completed or two (2) years, whichever is shorter.

5. Performance of Site Activities. Grantee agrees that the Assessment Activities conducted on the Property shall be performed in an orderly manner by properly qualified workers in conformity with a generally accepted standard of care for this type of work. Grantee and its agents/representatives will conduct the work at reasonable times of the day and in a manner which does not unreasonably interfere with Grantor's activities at the Property. Upon completion of the Assessment Activities, Grantee will properly abandon wells and soil borings, and will remove any equipment and return the portions of the

Property on which it conducted its Assessment Activities to its prior condition, unless otherwise approved by Grantor. All expenses incurred in performing the Assessment Activities will be borne by Grantee and/or its client.

6. Indemnification. Grantee will indemnify Grantor from and against property damage and/or personal injury that is caused by the negligence of Grantee or its agents/representatives in the performance of the Assessment Activities on the Property.

7. Successors and Assigns. This Agreement shall be binding on Grantor and Grantee, and their respective heirs, successors and assigns.

8. Entire Agreement. This Agreement constitutes the entire agreement between Grantor and Grantee with respect to the Assessment Activities on the Property.

IN WITNESS WHEREOF, the Parties hereto enter into this Agreement. Each person signing this Agreement represents and warrants that he or she has been duly authorized to enter into this Agreement by the company or entity on whose behalf it is indicated that the person is signing.

GRANTEE

Name: [Signature]

Title: owner

Date: 12/20/13

GRANTOR

Name: [Signature]

Title: SR. GEOLOGIST

Date: 11/25/13

**Converse Consultants**

2738 West College Avenue

State College, PA 16801

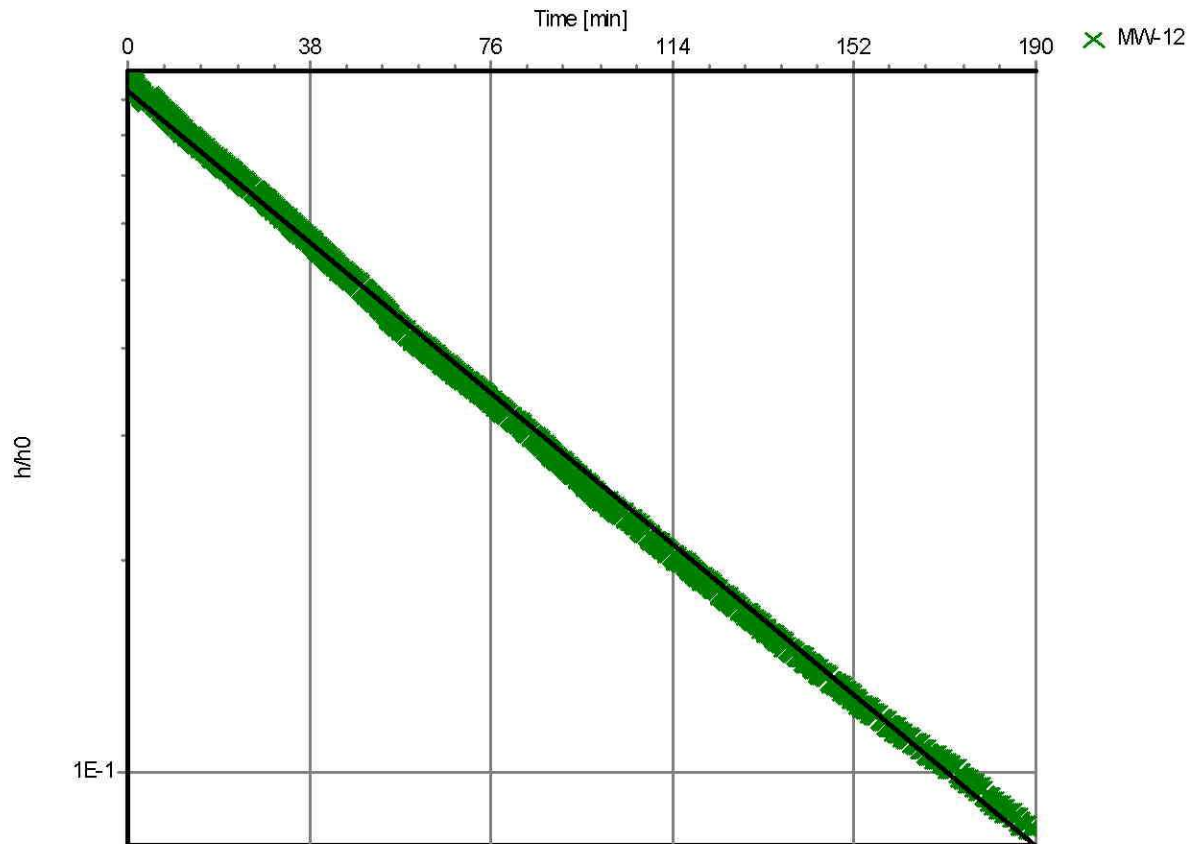
Phone: 814-234-3223

Slug Test Analysis Report

Project: Rosemergy Slug Tests

Number: 11-17788-02

Client: Woodgen, LP.

MW-12 Rising Head Slug Test [Bouwer & Rice]**Slug Test:** MW-12 Rising Head Slug Test**Analysis Method:** Bouwer & Rice**Analysis Results:**

Conductivity: 1.47E-2 [ft/d]

Test parameters:

Test Well: MW-12

Aquifer Thickness: 20 [ft]

Casing radius: 0.083 [ft]

Gravel Pack Porosity (%) 25

Screen length: 10.65 [ft]

Boring radius: 0.25 [ft]

r(eff): 0.144 [ft]

Comments:

Evaluated by: OBC

Evaluation Date: 3/4/2014

**Converse Consultants**

2738 West College Avenue

State College, PA 16801

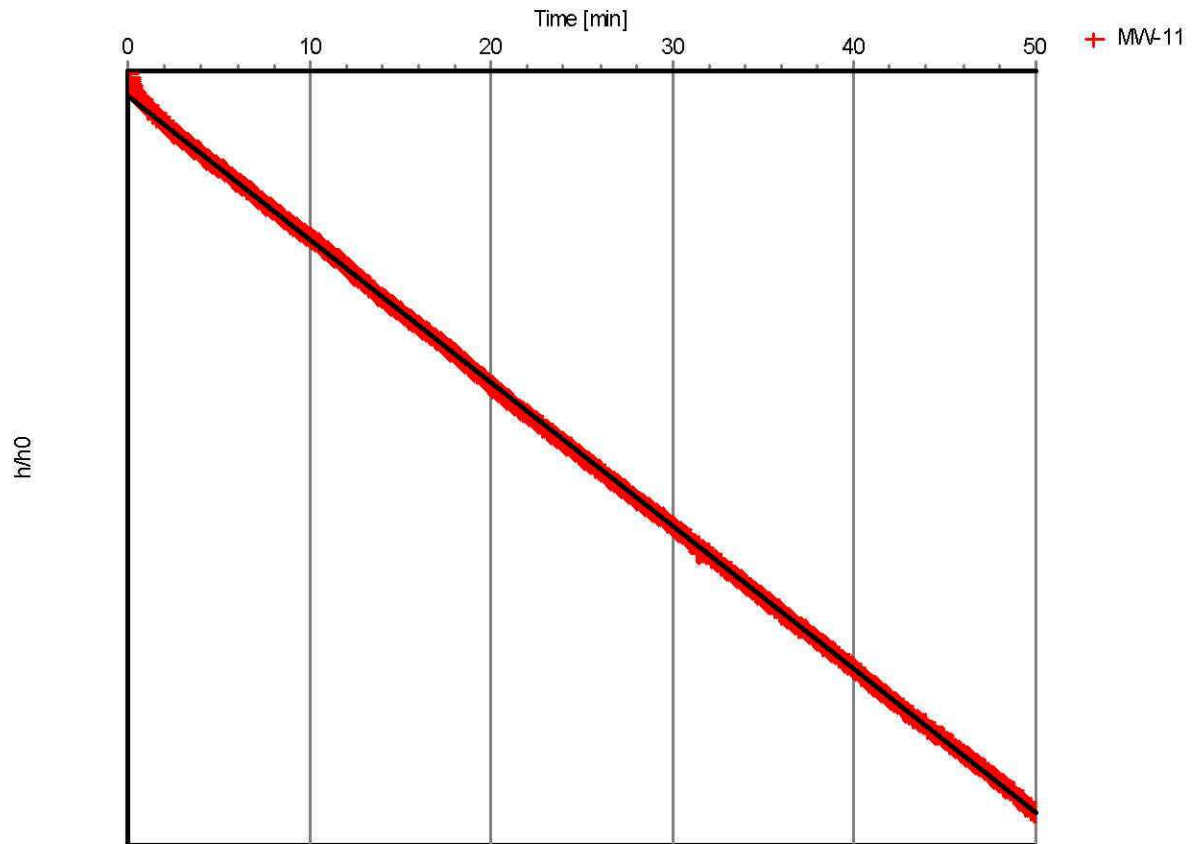
Phone: 814-234-3223

Slug Test Analysis Report

Project: Rosemergy Slug Tests

Number: 11-17788-02

Client: Woodgen, LP.

MW-11 Rising Head Slug Test [Bouwer & Rice]**Slug Test:** MW-11 Rising Head Slug Test**Analysis Method:** Bouwer & Rice**Analysis Results:**

Conductivity: 2.97E-2 [ft/d]

Test parameters:

Test Well: MW-11

Aquifer Thickness: 20 [ft]

Casing radius: 0.083 [ft]

Gravel Pack Porosity (%) 25

Screen length: 9.73 [ft]

Boring radius: 0.25 [ft]

r(eff): 0.144 [ft]

Comments:

Evaluated by: OBC

Evaluation Date: 3/4/2014

**Converse Consultants**

2738 West College Avenue

State College, PA 16801

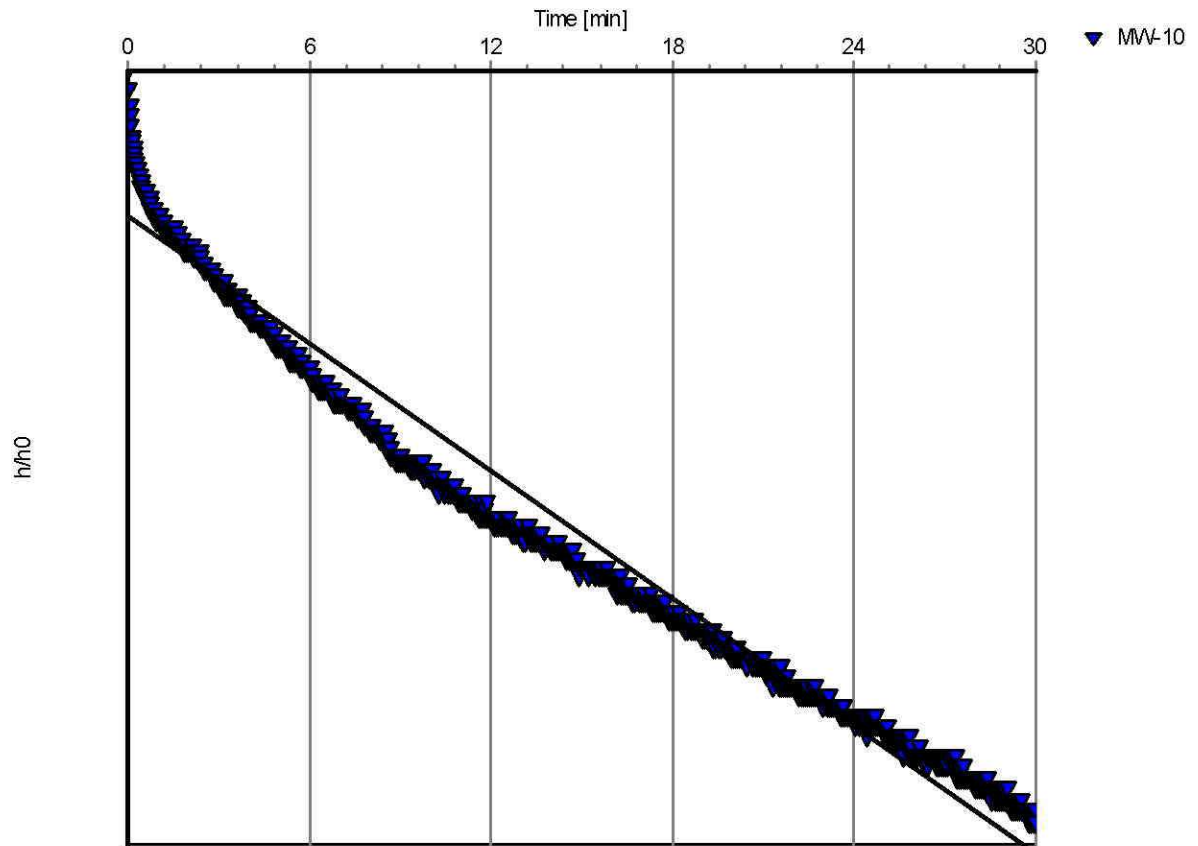
Phone: 814-234-3223

Slug Test Analysis Report

Project: Rosemergy Slug Tests

Number: 11-17788-02

Client: Woodgen, LP.

MW-10 Rising Head Slug Test [Bouwer & Rice]Slug Test: MW-10 Rising Head Slug TestAnalysis Method: Bouwer & RiceAnalysis Results:

Conductivity: 3.06E-2 [ft/d]

Test parameters:

Test Well: MW-10

Aquifer Thickness: 20 [ft]

Casing radius: 0.083 [ft]

Gravel Pack Porosity (%) 25

Screen length: 9.25 [ft]

Boring radius: 0.25 [ft]

 $r(\text{eff})$: 0.144 [ft]Comments:

Evaluated by: OBC

Evaluation Date: 3/4/2014

**Converse Consultants**

2738 West College Avenue

State College, PA 16801

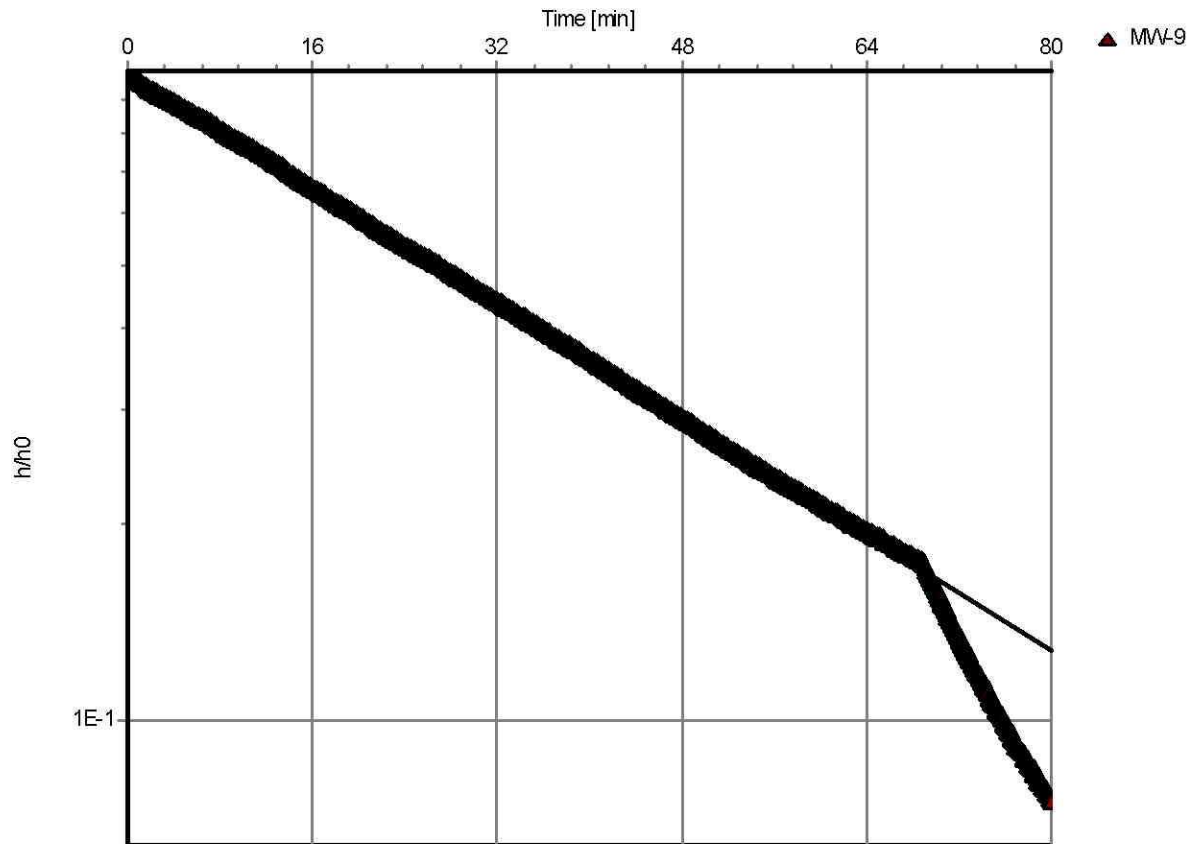
Phone: 814-234-3223

Slug Test Analysis Report

Project: Rosemergy Slug Tests

Number: 11-17788-02

Client: Woodgen, LP.

MW-9 Rising Head Slug Test [Bouwer & Rice]Slug Test: MW-9 Rising Head Slug TestAnalysis Method: Bouwer & RiceAnalysis Results:

Conductivity: 3.14E-2 [ft/d]

Test parameters:

Test Well:	MW-9	Aquifer Thickness:	20 [ft]
Casing radius:	0.083 [ft]	Gravel Pack Porosity (%)	25
Screen length:	10.65 [ft]		
Boring radius:	0.25 [ft]		
r(eff):	0.144 [ft]		

Comments:

Evaluated by: OBC

Evaluation Date: 3/4/2014

**Converse Consultants**

2738 West College Avenue

State College, PA 16801

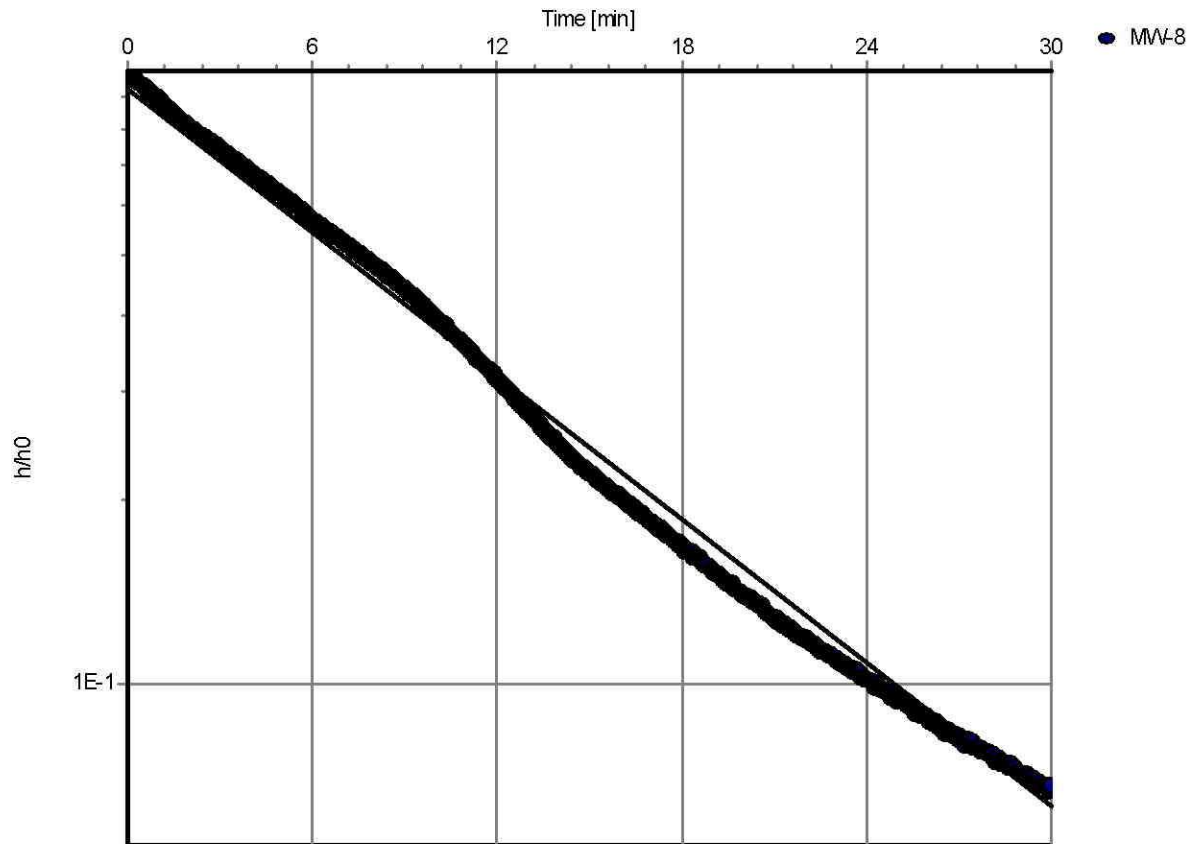
Phone: 814-234-3223

Slug Test Analysis Report

Project: Rosemergy Slug Tests

Number: 11-17788-02

Client: Woodgen, LP.

MW-8 Rising Head Slug Test [Bouwer & Rice]Slug Test: MW-8 Rising Head Slug TestAnalysis Method: Bouwer & RiceAnalysis Results:

Conductivity: 1.07E-1 [ft/d]

Test parameters:

Test Well:	MW-8	Aquifer Thickness:	20 [ft]
Casing radius:	0.083 [ft]	Gravel Pack Porosity (%)	25
Screen length:	10.62 [ft]		
Boring radius:	0.25 [ft]		
r(eff):	0.144 [ft]		

Comments:

Evaluated by: OBC

Evaluation Date: 3/4/2014

**Converse Consultants**

2738 West College Avenue

State College, PA 16801

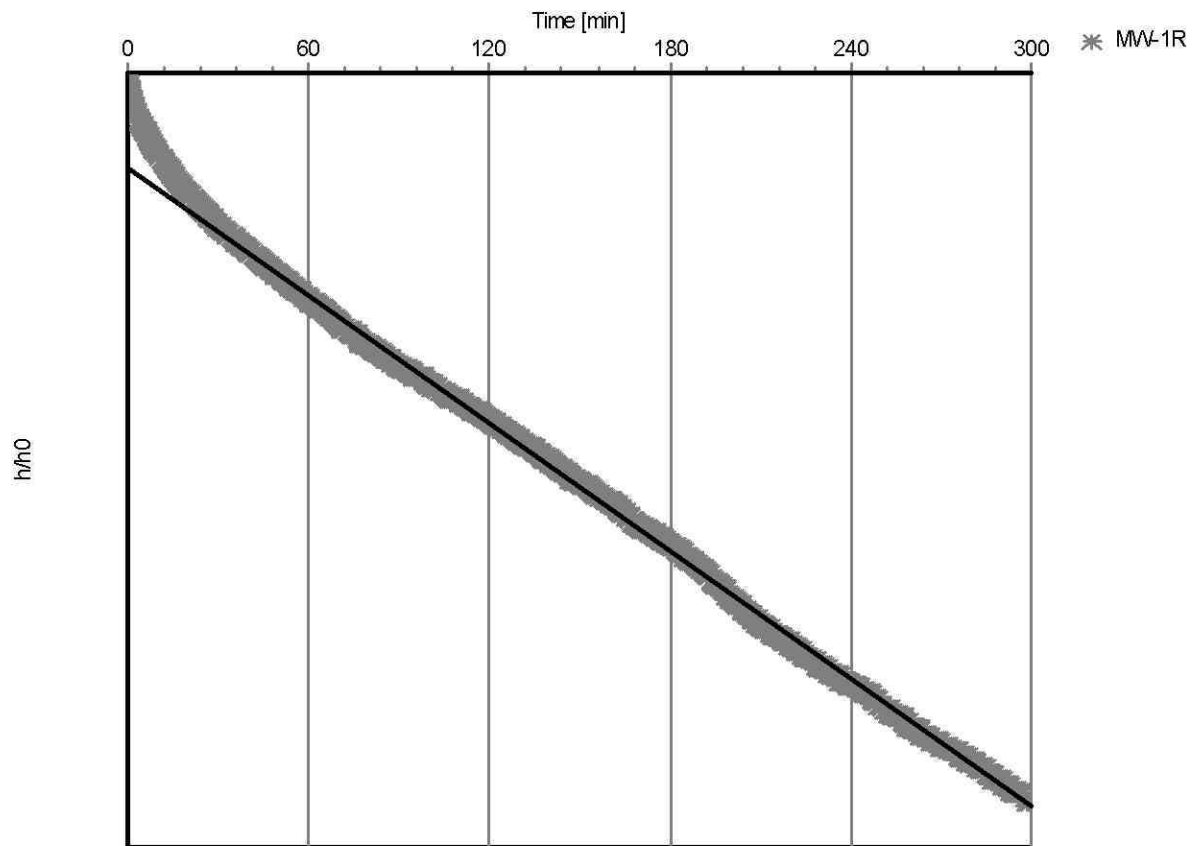
Phone: 814-234-3223

Slug Test Analysis Report

Project: Rosemergy Slug Tests

Number: 11-17788-02

Client: Woodgen, LP.

MW-1R Rising Head Slug Test [Bouwer & Rice]**Slug Test:** MW-1R Rising Head Slug Test**Analysis Method:** Bouwer & Rice**Analysis Results:**

Conductivity: 3.43E-3 [ft/d]

Test parameters:

Test Well: MW-1R

Aquifer Thickness: 20 [ft]

Casing radius: 0.083 [ft]

Gravel Pack Porosity (%) 25

Screen length: 10.61 [ft]

Boring radius: 0.25 [ft]

r(eff): 0.144 [ft]

Comments:

Evaluated by: OBC

Evaluation Date: 3/4/2014