



Converse Consultants

Over 70 Years of Geotechnical Engineering, Environmental & Groundwater Science, Inspection and Testing Services

March 31, 2016

Rebecca Albert, P.G.
Department of Environmental Protection
Northeast Regional Office
2 Public Square
Wilkes Barre, Pennsylvania 18701

Reference: **Updated SCR and RAP Submittal**
USTIF Claim Number: 2011-0082(S)
Facility ID# 52-01926
Former Rosemergy's Convenience Store
Lackawaxen Twp., Pike Co., Pennsylvania
(Converse Project No. 11-17788-03)

Dear Ms. Albert:

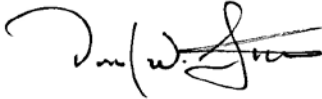
Per your request, enclosed is an Updated Site Characterization Report and Remedial Action Plan (SCR/RAP) for the referenced facility. As requested, this submittal addresses the comments in the August 26, 2015 RAP Disapproval Letter received from PADEP. With respect to the comments outlined in that letter:

1. Six (6) additional groundwater monitoring wells (MW-17 through MW-22) were installed to further assess the lateral extent of impacted groundwater. The most recent groundwater analytical data indicates that impacted groundwater does not extend beyond the current monitoring well array. (Sections 7.4.2 and 7.4.6.2.5)
2. Both slug tests and longer term extraction events have been used to assess aquifer characteristics at the site. (Sections 6.6 and 13.3.4.2)
3. The current facility, the Market at Woodloch, is connected to public water and sewer. Stormwater from a portion of the paved area is discharged to a subgrade infiltration gallery that is located north of the building. (Section 3.3)
4. Static water levels will be collected during prolonged shutdowns of the remediation system prior to system re-start. (Groundwater Monitoring Program portion of Section 13.3)
5. A longer term extraction event of 48 hours duration was conducted on multiple DPE wells to collect additional data for assessment of aquifer properties and remedial design. (Section 13.3.4)

Thank you for your consideration of this matter. If you have any questions, please do not hesitate to contact me via email or at 814.280.3416 (cell).

Sincerely,

CONVERSE CONSULTANTS

A handwritten signature in black ink, appearing to read 'David W. Swetland', with a stylized flourish at the end.

David W. Swetland, P.G.
Senior Geologist

cc: George Korb, Lochgen LP
Linda Melvin, USTIF
Geoff Back, Excalibur

**UPDATED SITE CHARACTERIZATION
REPORT AND REMEDIAL ACTION
PLAN
FORMER ROSEMERGY'S STORE
FACILITY ID# 52-01926
USTIF CLAIM NUMBER: 2011-0082(S)
1623 ROUTE 590,
LACKAWAXEN TWP., PIKE CO.,
PENNSYLVANIA**

FOR

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

March 31, 2016

Project Number: 11-17788-03

BY

**CONVERSE CONSULTANTS
2738 West College Avenue
State College, PA 16801
Telephone: 814-234-3223
Email:**

statecollege@converseconsultants.com

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

The following is an Executive Summary of the Updated Site Characterization Report and Remedial Action Plan, 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 report to document site characterization activities and propose remedial actions for 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 gas station, convenience store, and sales office for Woodloch. 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 twenty two (22) groundwater monitoring wells (monitoring well MW-1 through MW-22) 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, if possible, 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.

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 other 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.

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
August 17, 2014
December 3, 2014
March 25, 2015
June 25, 2015
August 26, 2015
November 12, 2015
December 9, 2015
January 20, 2016

The laboratory results indicate that petroleum constituents in the groundwater are present beneath the Property and the adjacent Woodloch and Jensen properties 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 and southeast of the former leaking UST system consistent with the local directions 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 most recent groundwater analytical data indicates that 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 in all monitoring wells. However, groundwater sample collection events for the central area of the impacted groundwater plume date back to May of 2012. Although the construction activities at the Facility in 2014 caused a shift in the contaminant distribution, historical contaminant concentrations generally show stable or decreasing trends since that time period. As no new source area has been identified and the release is expected to be at least 10 years old, stable and/or decreasing concentrations are consistent with the site conceptual model.

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 and south of the former UST excavation. As the water table is very shallow, no significant 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. 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 in the southeast corner of the Property near 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 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 in the newest monitoring wells, no potential source of additional petroleum hydrocarbons has been identified in the area of the impacted groundwater plume. Although the construction activities at the Facility in 2014 caused a shift in the contaminant distribution, historical contaminant concentrations generally show stable or decreasing trends since that time period. As no new source area has been identified and the release is expected to be at least 10 years old, stable and/or decreasing concentrations are consistent with the site conceptual model. Once concentrations in the distal wells stabilize, a numerical model of the fate and transport can be calibrated to the site specific data.

A qualitative analysis of fate and transport indicates limited mobility of constituents beyond the current contaminant distribution. Initial quantitative analysis is consistent with the qualitative analysis. 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 the current understanding of fate and transport is sufficient at this point in time.

REMEDIAL ACTION PLAN

Although the release may be more than 13 years old, significant concentrations of unleaded gasoline constituents are currently present in the area surrounding the former USTs. Attenuation of the impacted groundwater plume has been limited by the relatively low permeability of soils in the area of the release, limited infiltration due to the presence of asphalt at the surface, and the extensive residual source area that consists of fine grained soils with sorbed contaminant mass in the zone of groundwater fluctuation (aka soil smear zone) zone. Recent construction activities have mobilized some of the residual hydrocarbon mass.

Remedial measures are required to reduce the contaminant mass in groundwater and in the soil smear zone. Converse evaluated multiple remedial technologies to address the impacted media at the site. Based on the current contaminant distribution, site limitations, and physical properties, alternatives were screened for their ability to meet remedial goals. Pilot tests were conducted to further assess the proposed remedial technology.

Converse recommends dual-phase extraction and treatment as the current remedy for the Former Rosemergy's Store/Garage property. Current groundwater concentrations indicate that contamination has migrated beyond the property boundary at levels that exceed the RMSC SHSs. After remedial activities are complete, at least four (4) rounds of groundwater samples (eight rounds if required by PADEP) will be collected from all POC monitoring wells and other important monitoring wells to demonstrate attainment.

PLANNED ACTIVITIES

- Installation and start-up of the selected remediation system.

- Twice monthly monitoring of the remediation system.
- Monitoring of drawdown within the area of impacted groundwater and modification of the remedial system, if necessary, to provide sufficient drawdown within the treatment cell.
- Continued assessment of factors that contribute to the area of groundwater mounding and implementation of controls to minimize the groundwater mounding that contributes to the off-site migration of contaminants.
- Quarterly Groundwater Monitoring and Reporting.
- Continued evaluation of contaminant fate and transport, as required.

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UPDATED SITE CHARACTERIZATION REPORT
AND REMEDIAL ACTION PLAN
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 Updated Site Characterization Report and Remedial Action Plan (SCR/RAP) for the former Rosemergy's convenient store located at 1623 State Route 590 in Hawley (Lackawaxen Twp.), Pike County, Pennsylvania (Property). The site characterization documents the assessment of 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 twenty-two (22) groundwater monitoring wells (monitoring well MW-1 through MW-22) 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, if possible, 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.

Remedial measures are required to reduce the contaminant mass in groundwater and in the soil smear zone. Converse evaluated multiple remedial technologies to address the impacted media at the site. Based on the current contaminant distribution, site limitations, and physical properties, alternatives were screened for their ability to meet remedial goals. Converse recommends dual-phase extraction and treatment as the current remedy for the Former Rosemergy's Store/Garage property.

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

ICF International
4000 Vine Street
Middletown, Pennsylvania 17057
(570) 586-2617
Primary Contact: Ms. Linda Melvin

Consultant

Converse Consultants
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 active UST systems are located downgradient of the former release in an area of the Property that has not been impacted. 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.

§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. The municipality has been made aware 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

The US EPA Underground Injection Control (UIC) program has provided approval of the plan to discharge treated water from the proposed remedial system to a subgrade infiltration gallery that is located north of the building.

To the best of our knowledge, PADEP approval of this submittal 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.
4. *Site Characterization Report, Former Rosemergy's Store/Garage, USTIF Claim Number: 2011-0082(S), Lackawaxen Twp., Pike Co., Pennsylvania*, dated August 7, 2014, prepared by Converse Consultants.
5. *RAP Submittal Date Extension Request (update), USTIF Claim Number: 2011-0082(S), Rosemergy's Convenience Store, Hawley, Pennsylvania*, dated May 28, 2014, prepared by Converse Consultants.
6. *RAP, Former Rosemergy's Store/Garage, USTIF Claim Number: 2011-0082(S), Lackawaxen Twp., Pike Co., Pennsylvania*, dated July 15, 2015, prepared by Converse Consultants.

2.12.3 PADEP Correspondence

1. *Storage Tanks Program* - Northeast Regional Office, Notice of Violation (NOV), Rosemergy's Garage Facility, Facility ID No. 52-01926, dated July 15, 2011.
2. *Storage Tanks Program* - Northeast Regional Office, Notice of Violation (NOV), Rosemergy's Garage Facility, Facility ID No. 52-01926, dated September 6, 2013, signed by Mr. David McGovern.
3. *ECB - Storage Tanks Program* - Northeast Regional Office, RAP Alternative Timeframe Approval Letter, Rosemergy's Garage Facility, Facility ID No. 52-01926, dated July 15, 2011, signed by Ms. Susan E. Thomas.
4. *ECB - Storage Tanks Program* - Northeast Regional Office, RAP Disapproval Letter, Former Rosemergy's Garage, Facility ID No. 52-01926, dated August 26, 2015, signed by Mr. Eric Supey.

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.
September 16-17, 2014:	Collection of groundwater samples from monitoring wells MW-1R through MW-16 (except MW-5 and MW-6). A nearby proxy well was used (DPE-4) in place of the destroyed MW-5. Treatment of event for groundwater in monitoring wells MW-3 and MW-5.
December 3-4, 2014:	Collection of groundwater samples from monitoring wells MW-1R through MW-16 (except MW-5 and MW-6). A nearby proxy well was used (DPE-4) in place of the destroyed MW-5.
December 17, 2014:	Second round of indoor air sampling.
February 5, 2015:	Reinstallation of groundwater monitoring well MW-5 using hollow stem auger drilling methods.
March 11-12, 2015:	Short term DPES pilot test activities.
March 25, 2015:	Collection of groundwater samples from monitoring wells MW-1R through MW-15 (except MW-6).
June 25-26, 2015:	Collection of groundwater samples from monitoring wells MW-1R through MW-16 (except MW-6).
September 26, 2015:	Quarterly groundwater sample collection event.

- October 28-31, 2015: Extraction Event with collection of Long Term pilot test data.
Installation of monitoring wells MW-17 through MW-22.
- November 12-13, 2015: Groundwater sample collection from new monitoring wells
and selected other monitoring wells.
- December 9-10, 2015: Quarterly groundwater sample collection event.
- January 20, 2015: Groundwater sample collection from new monitoring wells
and selected other monitoring wells.

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 active UST systems are located downgradient of the former release in an area of the Property that has not been impacted.

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.

The Property is currently hooked up to public water and sewer.

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 (Facility ID# 52-01926) 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. Several short term groundwater extraction and treatment events were completed in 2015. The extraction events were completed as part of pilot tests conducted at the Site. The pilot tests are discussed in Section 13.3.

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, however refusal on cobbles within the glacial till was encountered in some of the 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 0.1 feet to 16 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

Observed fluctuations in the water level elevation are 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 15 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 impact or be impacted by utility trenches.

Current overburden (water table) groundwater elevation data suggest an area of groundwater mounding east of the former UST excavation. The mounding occurs near the former UST excavation and near an area of rainwater infiltration at the edge of the asphalt pavement. 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 0.1 feet to 15.6 feet below grade (location dependent) during the period of May 2012 to December 2015. 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

The distribution of COCs in soil and the groundwater elevation data indicate that flow within unconsolidated overburden in the area of the former UST system is anomalously to the west (away from the major streams and rivers and slightly uphill). The westward component of flow is the result of the groundwater high (mound) that is located east of the former UST system (near the southeast corner of the Property). Contaminant concentrations also indicate a component of flow to the southeast which is consistent with the expected direction of regional groundwater flow. Appendix A: Figure 5A and 5B present Groundwater Elevation Contour Maps for the unconsolidated overburden that depict the calculated groundwater relative elevations at the monitoring wells for two (2) recent quarterly groundwater 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. A significant component of vertical contaminant transport is not indicated by the current site conceptual model.

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-4 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 hydraulic conductivity based on the quarterly groundwater contour maps has been reported in the quarterly reports. Recent data indicates a hydraulic gradient to the west of approximately 0.05.

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
MW-12	Rising Head	1.47E-2

* Calculated using the Bouwer & Rice method.

For the purpose of this assessment a value of $1.07\text{E-}1$ will be utilized. Use of the highest value will provide a more conservative estimate of contaminant transport. Note that "true" in-situ hydraulic conductivity can vary by one order of magnitude (or more) from a hydraulic conductivity calculated from a slug/bail test analysis. Please refer to Section 13.3 – *Pilot Tests* for an additional discussion of hydraulic conductivity.

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:

$K = 1.07 \times 10^{-1}$ ft/day (see Section 6.6)

$I = 0.050$ (see Section 6.5)

$N_e = 0.2$ (based on descriptions of soil)

Then:

$$V_s = (1.07 \times 10^{-1} \text{ ft/day} \times 0.050) / 0.2 = 2.67 \times 10^{-2} \text{ ft/day} \times 365 \text{ days/yr} = 9.8 \text{ ft/yr (theoretical)}.$$

6.8 GROUNDWATER EXTRACTION

The area of the Site is served by both a public water system and a limited number of private supply wells. The two nearest on-lot supply wells are located at residential properties. The nearest well, located on the Woodloch property, is at a cabin that is only occupied on a seasonal basis. Neither well is reported to be completed in the low yield overburden aquifer that has been impacted by the former release of gasoline. As

the wells are used for limited withdrawals and are not completed within the impacted portion of the aquifer, the identified private supply wells are not 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 twenty-two (22) groundwater monitoring wells (monitoring well MW-1 through MW-22) 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, if possible, 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. Woodloch was listed as the owner of the wells. The wells are located south of the site at a distance that is not potentially impacted by the plume based on current data.
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 - PAGWIS identified twenty five (25) 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 other 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

Twenty-two (22) 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, MW-12 through MW-15, and MW-17 through MW-19 were installed on the former Rosemergy property. Monitoring wells MW-8, MW-9, MW-16, and MW-20 through MW-22 were installed south of Rosemergy's on property owned by Woodloch. Monitoring wells MW-10 and MW-11 were installed east of the former Rosemergy's Store 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 indicated that monitoring well MW-6 was not in an area impacted by the release from the former UST systems. Monitoring well locations are shown on Figure 2 of Appendix A.

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.
- MW-17 through MW-22 were installed under the direction of Converse Consultants during the period of October 28 through October 30, 2015.

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 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 3 shows the highest PID response 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) and south 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 and December 16, 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.

During each sampling event, 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 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

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. Appendix B: Table 5 summarizes the indoor air laboratory data. Laboratory reports and chain of custody forms are presented in Appendix C.

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. All accessible groundwater monitoring wells were sampled during the quarterly sampling events. Additional sampling events were conducted for selected monitoring wells. 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

March 7, 2014

April 29, 2014

June 12, 2014

August 17, 2014

December 3, 2014

March 25, 2015

June 25, 2015

August 26, 2015

November 12, 2015

December 9, 2015

January 20, 2016

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

Groundwater samples from the Site were analyzed for the unleaded gasoline, diesel, and kerosene indicator compounds by the methods that are published on the 2008 Petroleum Short List that is part of the Technical Guidance Manual published by PADEP. The samples were submitted to Fairway Laboratories of Altoona, Pennsylvania for analysis.

CONSTITUENTS OF CONCERN (COCs)	
CONSTITUENTS	CASRN
Benzene	71-43-2
Cumene (Isopropylbenzene)	98-82-8
Ethylbenzene	100-41-4
MTBE (Methyl tert-butyl ether)	1634-04-4

Naphthalene	91-20-3
Toluene	108-88-3
Xylene (Total)	1330-20-7
1,2,4-Trimethylbenzene	95-63-6
1,3,5-Trimethylbenzene	108-67-8

Laboratory reports and chain of custody data are presented in Appendix C. Appendix B: Table 2 summarizes the groundwater analytical data. 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 Recent Groundwater Sampling Events

The most recent groundwater sample collection events were conducted in November 2015, December 2015, and January 2016. A detailed discussion of previous groundwater analytical data has been summarized in the previous reports submitted by Converse. The current distribution of contaminants is generally similar to that discussed in previous reports.

Groundwater analytical data is summarized on Table 2 of Appendix B. Appendix A: Figures 6A through 10B present the distribution of benzene, MTBE, naphthalene, and TMBs in groundwater for recent groundwater sample collection events. Copies of the recent laboratory data and chains of custody are included in Appendix C.

7.4.6.2.3 November 2015 Sampling Event

The November 2015 event included sample collection from existing monitoring wells MW-3, MW-4, MW-9 and newly installed monitoring wells MW-17 through MW-22. No analyte was detected in samples from MW-17 through MW-22 at a concentration that exceeded the LQLs or RMSC SHSs. As expected, significant concentrations of unleaded gasoline constituents were detected in the sample from MW-9 with generally lower concentrations of gasoline constituents detected in samples from monitoring wells MW-3 and MW-4. As only selected wells were sampled, isoncentration maps were not prepared.

7.4.6.2.4 December 2015 Sampling Event

The December 2015 event included sample collection from monitoring wells MW-1 through MW-22 (except for MW-6 that was destroyed during site development). Concentrations of petroleum constituents exceeded the RMSC SHSs in groundwater samples that were collected from monitoring wells MW-1, MW-2, MW-4, MW-5R, MW-7, MW-9, MW-10, MW-12 through MW-14, MW-17, and MW-18. In general, concentrations within the core of the impacted groundwater plume were consistent with previous quarterly sampling events.

Multiple unleaded gasoline constituents were detected in POC monitoring wells MW-17 and MW-18. Analytes detected in MW-17 and MW-18 included naphthalene and TMBs, compounds with limited mobility in groundwater. As no source area has been identified in close proximity to monitoring wells MW-17 and MW-18, the analytical data for MW-17 and MW-18 is inconsistent with the current conceptual model for the Site. Laboratory error and/or sampling error are possible sources of the unleaded gasoline constituents in MW-17 and MW-18. Follow-up groundwater sample collection was scheduled for January 2016 to further assess unleaded gasoline constituent concentrations in peripheral POC wells at the Site.

Isoconcentration maps for the December 2015 event are included in 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 December 2015 event is included as Figure 5B of Appendix A. Laboratory reports and chain of custody data are presented in Appendix C. Appendix B: Table 2 summarizes the groundwater analytical data.

7.4.6.2.5 January 2016 Sampling Event

The January 2016 event included sample collection from monitoring wells MW-9, MW-15, MW-16 and MW-17 through MW-22. No analyte was detected in samples from MW-15 and MW-17 through MW-22 at a concentration that exceeded the LQLs or RMSC SHSs. Previous detections of compounds in MW-17 and MW-18 above the RMSC SHSs were not confirmed by the January 2016 sampling event. The data indicates that the impacted groundwater that exceeds the RMSC SHSs does not extend beyond the current monitoring well array.

As expected, significant concentrations of unleaded gasoline constituents were detected in the sample from MW-9. Trace levels of MTBE were detected in the sample from monitoring well MW-16.

Although only selected monitoring wells were sampled, isoconcentration maps were prepared to demonstrate that the plume does not extend beyond the current monitoring well array. Isoconcentration maps are included in Appendix A.

Laboratory reports and chain of custody data are presented in Appendix C. Appendix B: Table 2 summarizes the groundwater analytical data.

7.4.6.2.6 Groundwater Analytical Data Evaluation

The laboratory results indicate that petroleum constituents in the groundwater are present beneath the Property and the adjacent Woodloch and Jensen properties 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 and southeast of the former leaking UST system consistent with the local directions 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 has historically been 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 in all monitoring wells. However, groundwater sample collection events for the central area of the impacted groundwater plume date back to May of 2012. Although the construction activities at the Facility in 2014 caused a shift in the contaminant distribution, historical contaminant concentrations generally show stable or decreasing trends since that time period. As no new source area has been identified and the release is expected to be at least 10 years old, stable and/or decreasing concentrations are consistent with the site conceptual model.

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 13 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 were 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 and 5B present groundwater contour maps for the two (2) most recent quarterly 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. 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. 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 and 5B of Appendix A) indicate that groundwater flow is primarily to the west and south-southeast. Fate and transport analysis (qualitative) 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. Current data suggests that 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 SITE CONCEPTUAL MODEL

11.1 GENERAL

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 east of 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 to the east onto property owned by the Jensens and to the south 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 CONSTITUENTS OF CONCERN

For the purpose of this evaluation, the following indicator compounds were detected in groundwater during the site characterization and are considered to be the constituents of concern (COCs) at the Site.

CONSTITUENTS OF CONCERN (COCs)	
CONSTITUENTS	CASRN
Benzene	71-43-2
Cumene (Isopropylbenzene)	98-82-8
Ethylbenzene	100-41-4
MTBE (Methyl tert-butyl ether)	1634-04-4
Naphthalene	91-20-3
Toluene	108-88-3
Xylene (Total)	1330-20-7
1,2,4-Trimethylbenzene	95-63-6
1,3,5-Trimethylbenzene	108-67-8

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 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 (Koc), 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 and MTBE have

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.

Contaminant concentrations seemed to be stable or decreasing prior to the constructions activities at the Property in the second quarter of 2014. In addition to construction disturbing groundwater flow patterns during the construction process, the construction introduced an unpaved buffer long the southern property boundary that appears to have increased infiltration in the southeast corner of the property. Additional groundwater sample collections are required to establish trends, however the current data suggests that the change in flow patterns has increased the groundwater elevation throughout the contaminant plume. The increase in water level elevations corresponds to an increase in contaminant concentrations in downgradient monitoring wells. Initial constituent concentrations in the peripheral POC monitoring wells MW-17 through MW-22 have been inconsistent. Once concentrations in the distal wells stabilize, a numerical model of the fate and transport can be calibrated to the site specific data. A sampling event is scheduled for late March 2016.

11.5.3 Initial Quantitative Analysis

An initial quantitative model for the groundwater fate and transport at the Facility was prepared based on the current data. The model was run as an initial check on the current site conceptual model and aquifer parameters. As benzene migration to the west within the core of plume is the dataset with the most consistent historical data, the benzene migration from MW-5R towards MW-13 (though the vicinity of MW-7) was selected for the initial fate and transport evaluation. The data from the December 2015 quarterly groundwater sample collection event was used as input to the model.

The New Quick Domenico model (NQD) was selected for groundwater fate and transport modeling of benzene in the overburden aquifer. NQD is part of the PADEP *Pennsylvania's Land Recycling Program, Technical Guidance Manual, (253-0300-100), June 8, 2002* (PADEP, 2002) Fate and Transport Analysis Tools. NQD is a Microsoft Excel spreadsheet application that utilizes the contaminant transport model of "An Analytical Model For Multidimensional Transport of a Decaying Contaminant Species",

by P.A. Domenico, Journal of Hydrology, 91 (1987), pp 49-58. The NQD spreadsheet was downloaded from the PADEP Land Recycling Program website.

The NQD model is a numerical spreadsheet model that calculates concentrations anywhere in a plume of contamination at any time after a continuous, finite source becomes active. Use of the NQD model is considered appropriate because:

1. Data indicate that the source is generally at steady state conditions and is finite (stable or shrinking plume indicates that, if anything, model will overestimate future concentrations).
2. Although non-ideal aquifer conditions prevail at the Site, it is our opinion that the model provides useful predictive simulations.
3. Water withdrawals/discharges to the uppermost aquifer and/or quantifiable anisotropy that would require the use of more complex models has not been documented at the site.
4. Degradation parameters within the model have not been measured at the site but can be adjusted to mimic the contaminant data, as needed.

Input parameters were generally selected as a result of field investigations, best practices, and published numbers from technical literature. Default values were used where site specific data was not available.

The model was used for a 30 year (equilibrium) model of benzene utilizing the December 2015 groundwater analytical data. The model was run both with the hydraulic conductivity calculated for the extraction event (0.8 ft/day) and the hydraulic conductivity calculated from the slug tests (0.11 ft/day). Model input/output sheets are presented in Appendix J. The model run using the higher hydraulic conductivity overestimates the contaminant transport that will reach monitoring well MW-13 while the model run using the lower hydraulic conductivity underestimates the contaminant transport that will reach monitoring well MW-13. The initial results indicate that the calculated hydraulic conductivities are reasonable and only minor changes to the conductivity and/or decay rate (λ) will be required to calibrate the model. As

additional sampling events are completed, the model will be updated and additional analytes including MTBE migration towards monitoring well MW-16 will be calibrated.

The qualitative analysis of fate and transport indicates limited mobility of constituents beyond the current contaminant distribution. Initial quantitative analysis is consistent with the qualitative analysis. 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 the current understanding of fate and transport is sufficient at this point in time. As statistically valid trends for analyte concentrations in peripheral monitoring wells become available (with the completion of subsequent sampling events), the quantitative fate and transport model will be expanded to include those transport directions and analytes.

11.6 CONCEPTUAL MODEL OF GROUNDWATER FLOW

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.

Available geographical and historical data and the previously completed cross-section for the Site (See Appendix A) 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 near 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 slow groundwater transport velocities.

12.0 REMEDIAL ALTERNATIVES ANALYSIS

12.1 GENERAL

Although the release may be more than 13 years old, significant concentrations of unleaded gasoline constituents are currently present in the area surrounding the former USTs. Attenuation of the impacted groundwater plume has been limited by the relatively low permeability of soils in the area of the release, limited infiltration due to the presence of asphalt at the surface, and the extensive residual source area that consists of fine grained soils with sorbed contaminant mass in the zone of groundwater fluctuation (aka soil smear zone) zone. Recent construction activities have mobilized some of the residual hydrocarbon mass.

Remedial measures will be required to reduce the contaminant mass in groundwater and in the soil smear zone. Remedial alternatives are discussed in this Section that may be utilized to facilitate the demonstration of the selected standards.

12.2 REMEDIAL TECHNOLOGIES

12.2.1 Excavation and Off-Site Disposal of Soil

Excavation and off-site disposal of petroleum impacted soil is usually the most cost effective solution for small and easily accessible releases to soil. The soil can generally be disposed of at a nearby permitted landfill or soil recycling facility. The removal of the soil source area can in some instances cause a rapid reduction of the impacted groundwater plume.

Impacted unsaturated zone soil that was accessible was removed during the removal of the UST systems. Although saturated zone soils could be excavated for off-property disposal, the excavation activities would present significant challenges with respect to management of water as depth increases, temporary loss of site use, maintenance of utilities, and restoration of the site. In addition, previous experience at similar sites indicates that the contaminant migration to the southeast would increase (at least in the short term) due to the large open excavation and the inability of the remedial measure to remove the residual source area beneath Route 590. Based on the logistical concerns and the likelihood of increasing downgradient contaminant migration to the

southeast, excavation and removal of residual impacted soil is not currently retained as a viable remedial alternative.

12.2.2 Groundwater Pump and Treat

Groundwater pump and treat is an effective means of establishing hydraulic control over impacted groundwater plumes and targeting specific zones of groundwater recovery. Although it is effective in establishing control over a plume, pumping large volumes of water over a period of many years is typically required to produce a significant reduction in contaminant concentrations within the plume.

The fine grained soils would make pump and treat technologies a poor choice for the Site unless they are combined with other technologies. Groundwater and pump and treat is not retained as a viable remedial alternative unless it is incorporated with other technologies.

12.2.3 Air Sparging

Air sparging uses compressed air or oxygen that is injected below the water table to strip volatile contaminants from the adjacent soil and groundwater. The oxygen introduced into the aquifer provides the added benefit of stimulating natural biodegradation that is typically oxygen limited within soil impacted by petroleum compounds. The contaminated soil vapor is extracted above the water table and treated ex-situ. Ex-situ treatment of the petroleum impacted vapor is usually completed using granular activated carbon (GAC). Air sparging is often limited by the presence of low permeability strata.

The shallow groundwater table would make the effective recovery of vapor problematic. Air sparging is not retained as a viable remedial technology.

12.2.4 Oxygen Enhancements

In the presence of sufficient oxygen and nutrients, naturally occurring organisms are capable of degrading significant volumes of petroleum constituents. Several methods can be used to increase the oxygen content of the impacted media. These methods include biosparging (similar to air sparging but at lower velocities that do not strip off

volatiles) and various oxygen releasing compounds that are commercially available to enhance biodegradation. In some settings, hydrocarbon degrading organisms must also be introduced into the impacted media to increase the rate of biodegradation to an acceptable level. Biodegradation "cocktails" that include nutrients, oxygen source, and petroleum degrading bacteria are commercially available. Designing an efficient means of distributing the enhancements throughout the impacted media can be a challenge in some geologic settings. One (1) advantage to these technologies is that no ex-situ treatment of contaminants is required. Pilot scale studies and/or microcosm studies are often recommended to increase the likelihood of success.

The size of the residual source area and the limited permeability would make the distribution of oxygen enhancements a challenge. Oxygen enhancements are not currently retained as a viable remedial technology at this Site.

12.2.5 Dual-Phase/Multi-Phase Extraction

Dual-phase extraction (DPE) involves the simultaneous extraction of impacted water and soil vapor using a moderate to high vacuum blower or liquid ring pump. In certain cases, the liquid and vapor may be extracted using separate pumps and/or blowers. Extraction of the soil vapor and water together promotes the stripping off of volatiles into the vapor phase which can then be treated more efficiently using GAC or an alternative technology. Dual-phase extraction is one of the few technologies that can be used effectively in low permeability strata. Dual-phase extraction has proven to be particularly effective in shallow low permeability aquifers that are located beneath pavement or another low permeability cover. The system can also be used to pump warm air into the ground to promote the degradation of less volatile (naphthalene, cumene) petroleum constituents. In high permeability strata and large applications the cost of equipment and the volume of water generated become problematic.

The Site is well suited for dual-phase extraction. The Federal Remedial Technologies Screening Matrix rates dual phase extraction as above average (effectiveness demonstrated at pilot scale and full scale) for non-halogenated VOCs. Dual-phase extraction is retained as a viable remedial technology.

12.2.6 In-Situ Chemical Oxidation

In-Situ Chemical Oxidation (ISCO) involves the introduction of a strong oxidizing agent (permanganate, ozone, hydrogen peroxide/fenton, persulfate, etc.) into the impacted media to chemically break down contaminants into less harmful constituents. ISCO is often used with recalcitrant compounds that are not easily addressed with other remedial technologies. One advantage of ISCO is that it generally acts on the order of weeks to months to rapidly reduce contaminant concentrations. As the destruction of contaminants is completed in-situ, no additional infrastructure is generally required to complete the remediation.

Drawbacks to the use of ISCO include the heat that is generated during the oxidative reaction and safety concerns for site personnel that may be exposed to strong oxidizing agents. Assessing the amount of oxidant that will be required (based on contaminant level and soil oxidant demand) and the best means of distributing the oxidant through the impacted zone can be complex. The oxidants are typically introduced into the ground during short-term events. The effectiveness of the treatment is generally not known for a period of weeks and months afterwards. If additional treatment is required, additional mobilization and injection events are required and additional costs are incurred.

Permanganate is not applicable due to its general inability to breakdown benzene within its window of activity in the subsurface. Ozone, persulfate, and hydrogen peroxide/fenton's reagent are potential oxidants, however care must be exercised to manage the potential corrosive impacts of these oxidants or their potential activation compounds at active facilities.

One additional drawback is that chemical oxidation does not address the unsaturated zone or smear zone. In some cases, soil blending (not applicable to this Site) or flooding of the smear zone can be employed to address unsaturated zone contamination. ISCO is typically used to rapidly reduce high concentrations of target compounds.

The Federal Remedial Technologies Screening Matrix rates ISCO as average (limited effectiveness demonstrated at pilot scale and full scale) for non-halogenated VOCs. As

the low permeability strata at the property may preclude efficient distribution of the oxidants, ISCO is not retained as a viable technology for this Site.

12.2.7 Natural Attenuation

Natural attenuation refers to the natural reduction in contaminant concentration over time as the result of biodegradation, chemical reactions, dilution, volatilization, etc. Although natural attenuation does not involve active remediation, long term monitoring and analysis are generally required. Fate and transport modeling is used to estimate the time that the natural attenuation will require to meet the selected standard.

Given the age of the release and the limited degradation that has been occurred over the past thirteen years, natural attenuation is not a suitable choice for the Site.

13.0 REMEDIAL ACTION PLAN

13.1 REMEDY SELECTION

Site characterization and supplemental site characterization activities have established the following facts:

- ⊗ A release from a former regulated UST system impacted soil and groundwater in the area of the former USTs.
- ⊗ Unsaturated soil that exceeded the RMSC SHSs was excavated and removed from the property as part of UST closure activities.
- ⊗ Current and historical groundwater analytical data indicates that groundwater with constituent concentrations that exceed the RMSC SHSs has migrated beyond the property boundary.
- ⊗ Attenuation of the plume has been limited by a large low permeability smear zone and the asphalt surface.
- ⊗ The top of the impacted groundwater plume is located at depths of approximately 1 to 7 feet below ground surface.

Based on these facts, the remedy selected for the Property is additional groundwater monitoring coupled with dual-phase extraction to extract and treat groundwater and soil vapor from the shallow overburden aquifer and smear zone. In anticipation of the recommended remedial measures, subgrade piping and dual phase extraction (DPE) wells were installed during site development activities in 2014.

Dual-phase extraction involves the simultaneous extraction of impacted water and soil vapor using a moderate to high vacuum blower or liquid ring pump. In certain cases, the liquid and vapor may be extracted using separate pumps and/or blowers. Extraction of the soil vapor and water together promotes the stripping off of volatiles into the vapor phase which can then be treated more efficiently using GAC or an alternative technology. Dual-phase extraction is one of the few technologies that can be used effectively in low permeability strata. Dual-phase extraction has proven to be particularly effective in shallow low permeability aquifers that are located beneath pavement or another low permeability cover. The system can also be used to pump warm air into the ground to promote the degradation of less volatile (naphthalene, cumene) petroleum constituents.

13.2 REDEVELOPMENT ACTIVITIES

The site is located along a major local road within an area of Pike County that has become a seasonal tourist destination. The Former Rosemergy's Property was undergoing redevelopment during the period of site characterization. Redevelopment activities included demolition of the former residence, expansion of the former garage building into a modern convenience store and real estate office, grading and paving of the site, installation of new petroleum USTs and dispensers in the northwest corner of the property (outside of the area impacted by the former UST system), and installation of a stormwater management system.

The new owner of the property (Woodloch) requested that Converse install any remedial equipment that might be required for site remediation prior to the completion of final grading and paving activities. As the site characterization was not complete, Converse informed Woodloch that any remedial design and installation activities would be based on an incomplete characterization and could not be guaranteed to be the only measures that would be required to address the contamination at the Site. Woodloch asked Converse to install components of a remedial system based on a screening of remedial alternatives and preliminary design that was conducted by Converse.

Based on experience with unleaded gasoline releases that had been successfully remediated by Converse in similar geologic settings in northern Pennsylvania, Converse designed subsurface components for a dual phase extraction (DPE) remedial system that could be utilized to address the impacted media that had been encountered at the Site. The subsurface components that were included in the preliminary design and subsequently installed during development activities included: eight (8) DPE wells to 15 feet below grade completed within 24" road vaults; retrofit of two (2) existing monitoring wells with 24" road vaults; and schedule 80 PVC piping installed to all of the 24" road vaults that was stubbed up along the side of the building. Based on Converse recommendations, Woodloch also planned for a future remediation shed (with specific electrical requirements for 3 phase service) during development.

13.3 PILOT TESTS

13.3.1 DPES WELL CONSTRUCTION

The DPE 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*. Well and Boring Logs were prepared that present a summary of well construction and descriptions of the materials and the field screening results that were encountered during the installation of the wells and soil borings at the Site.

The wells were developed by Converse personnel using a submersible pump or disposable bailer to remove fine-grained material and to initiate hydraulic communication with the aquifer. Converse personnel field monitored the development water for pH, temperature, and specific conductivity. Potentially impacted development water was treated on-site using granular activated carbon and discharged to the ground surface in the vicinity of the well.

The DPE wells were installed using hollow stem auger drilling methods to depths of approximately 15 feet below grade. The DPE wells were screened with approximately 12.5 feet of 2-inch diameter, schedule 40 polyvinyl chloride (PVC), 0.020-inch factory slotted, flush threaded 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 appropriate sand to approximately ½-foot above the screened interval and the remaining annular space was filled with bentonite and concrete.

13.3.2 DPES MOBILIZATION AND HOOK-UP

Converse mobilized a trailer mounted dual-phase extraction system (DPES) to the Site. Basic components of the DPES consist of a Roots Universal RAI blower with 7.5 horse power (hp) motor, knockout drum with three (3) level sensors, ¾ hp water transfer pump, ½ hp heat exchanger unit, and electronic control panel. Treatment units consist of two (2) 160-pound granular activated carbon (GAC) vapor treatment vessels (in series) and two (2) 200-pound GAC water treatment vessels (in series). Vacuum gauges, pressure gauges, and temperature gauges are used to monitor system

operation. System vacuum is controlled by an air-mix valve located at the blower inlet.

The well heads consist of 2-inch PVC riser. 2-inch flexible PVC hose was used to connect the trailer mounted DPES to the well head. A temporary one-inch drop pipe within a 2-inch manifold was used extract soil vapor and groundwater at the well head. The 2-inch manifold contains a sample port that can be used to monitor vacuum, introduce entrainment air, and collect air samples at the well head.

13.3.3 SHORT TERM TESTS AND MONITORING

13.3.3.1 General

The primary pilot test tasks in March 2015 were as follows:

1. Initial monitoring of water levels to establish antecedent conditions.
2. Single well extraction tests at DPE wells DPE-3, DPE-6, and DPE-7.
3. A multi-well test utilizing simultaneous extraction at DPE-1, DPE-4, and DPE-5.
4. Data tabulation and analysis.

The pilot testing was conducted on March 11 and 12, 2015. During the pilot testing, the following parameters were monitored:

1. Vacuum in the DPE well being tested, in inches of mercury (inHg).
2. Airflow from the DPE well being tested, in cubic feet per minute (cfm).
3. Groundwater extraction rate from the DPE well being tested, in gallons per minute (gpm).
4. Groundwater levels in the piezometers and DPE wells not being tested at that time, in feet below top of casing (ft-toc).
5. Measured temperature of the intake air before entering the blower and the temperature of the air after exiting the blower (before entering the heat exchanger), in degrees Fahrenheit (°F).
6. Vacuum in the piezometers and DPE wells not being tested at that time, in inches of mercury (inHg).

In addition to the above measurements, two (2) quick-pull air quality samples were

collected. Both samples were collected during the multi-well extraction test. One (1) sample of the influent air was collected after one (1) hour of extraction and a second influent sample was collected at the end of the test.

13.3.3.2 Test Results

Dual phase extraction was achieved during each single well test and during the multi-phase test. DPE at the site was easily achieved at vacuums of 6 to 7 inHg. The volume of air and groundwater generated by the system was consistent with the initial design of the DPE system. Vacuum data collected during the tests at nearby extraction wells indicate that soil vapor can be extracted from the treatment cell using the current array of DPE wells. Water level data indicates that the zone of influence of each extraction well will typically overlap. Although groundwater can be extracted from entire treatment cell using the current DPE array, the predicted drawdown from the short term pilot test raised concerns about the amount of drawdown that will be achieved within the treatment cell. The short term pilot test data predicted that drawdown may be as little as 0.5 feet in portions of the treatment cell. As the majority of the contaminant mass is extracted via the vapor phase, a long term lack of drawdown would significantly prolong the amount of time that the DPE system would be required to run to remove sufficient contaminant mass to meet applicable cleanup standards. Subsequent longer term pilot tests were undertaken to further assess this potential issue.

The data summary sheets and summary charts from the pilot test activities are included as Appendix D. A detailed discussion of the pilot test results is provided below.

Dual-Phase Extraction System Well DPE-3

Dual-phase extraction system well DPE-3 was tested over a period of 130 minutes. Before testing commenced, the measured starting water level was 3.30 ft-toc (eastern end of treatment cell) and the total well depth was 14 ft-toc. The dual phase extraction drop pipe was set at 12.5 ft-toc.

The DPE system operated at approximately at gradually increasing vacuums of 7 inHg, 10 inHg, and 12 inHg. The temperature rise across the blower was measured as a function of vacuum at the blower. A temperature rise of approximately 130 degrees was measured for a vacuum of 12 inHg. The airflow was less than 10 cfm until the

vacuum was increased to 10 inHg. The average airflow from the DPE well at the conclusion of the test was measured at 15 cfm. The total flow through the blower system at the end of the test (including extracted air and "make-up air") was measured at 120 cfm.

The average groundwater recovery rate from DPE-3 during the course of the pilot test was approximately 1.5 gallons per minute (about 180 gallons in 120 minutes), although the rate was as high as 2.5 gallons per minute during later portions of the test. The groundwater recovery rate was potentially impacted by snowmelt and proximity to the former UST excavation backfill. Both the snowmelt and temporary groundwater storage within the former UST excavation are considered to be transient conditions.

No vacuum was recorded in nearby monitoring points during the pilot test at DPE-3. As the water level in the nearest monitoring points was above the screened interval, it would not have been possible to measure vacuum at the nearest monitoring locations.

Drawdown was not observed in the nearest monitoring points. Snowmelt during the test was so significant that the water level in monitoring well MW-4 rose during the test. As the test was conducted nearest to the snowmelt recharge area in the southeast corner of the property, the high groundwater recovery rate from DPE-3 and the lack of drawdown in adjacent wells is not considered to be typical of normal conditions.

Dual-Phase Extraction System Well DPE-6

Dual-phase extraction system well DPE-6 was tested over a period of 90 minutes. Before testing commenced, the measured starting water level was 10.35 ft-toc (western end of treatment cell) and the total well depth was 13.4 ft-toc. The dual phase extraction drop pipe was set at 12.5 ft-toc.

The DPE system operated at approximately 7 inHg (gauge malfunctioned, vacuum is based on temperature rise across blower) for the majority of the test. The average airflow from the DPE well was measured at 15 cfm while the average total airflow out of the system was 160 cfm (again due to the amount of make-up air being added to the system to keep the generated vacuum from exceeding the blower capacity).

The average groundwater recovery rate from DPE-6 during the course of the pilot test was approximately 0.3 gallons per minute (about 30 gallons in 90 minutes).

A magnehelic vacuum gauge was used to periodically monitor vacuum in the nearby monitoring wells and other DPE wells not being tested. Vacuums of 0.1 inH₂O or less were observed in MW-1R and DPE-5, while a much larger vacuum (9 to 13 inH₂O) was recorded in MW-7.

Dual-Phase Extraction System Well DPE-7

Dual-phase extraction system well DPE-7 was tested over a period of 90 minutes. Before testing commenced, the measured starting water level was 5.56 ft-toc and the total well depth was 14 ft-toc. The dual phase extraction drop pipe was set at 12.5 ft-toc.

The DPE system operated at approximately 7 inHg (gauge malfunctioned, vacuum is based on temperature rise across blower) for the majority of the test. The average airflow from the DPE well was measured at 15 cfm while the average total airflow out of the system was 160 cfm (again due to the amount of make up air being added to the system to keep the generated vacuum from exceeding the blower capacity).

The average groundwater recovery rate from DPE-6 during the course of the pilot test was approximately 0.2 gallons per minute (about 20 gallons in 90 minutes).

A magnehelic vacuum gauge was used to periodically monitor vacuum in the nearby monitoring wells and other DPE wells not being tested. Vacuums of 0.1 inH₂O or less were observed in MW-5 and DPE-4, while a larger vacuum (0.3 to 0.6 inH₂O) was recorded in DPE-5 and DPE-8.

Multi-well Test (DPE-1, DPE-4, and DPE-5)

Dual-phase wells DPE-1, DPE-4, and DPE-5 were tested for a period of approximately 180 minutes.

Based on the temperature rise across the blower, the DPE system operated at approximately 7 inHg for the majority of the test. The average airflow from the wells

was measured at 37.5 cfm while the average airflow out of the system was 165 cfm; this is due to make-up air being added to the system to keep the generated vacuum from exceeding the blower capacity.

The multi-well test induced a drawdown of at least 0.1 feet in DPE-2 DPE-7, DPE-8, MW-1R, and MW-5 by the end of the test. The largest drawdown, greater than 0.25 feet, was observed in DPE-7. The rate of groundwater extraction was approximately 1.3 gallons per minute over the course of the test (230 gallons over 180 minutes).

A magnehelic vacuum gauge was used to periodically monitor vacuum in the nearby monitoring wells and other DPE wells not being tested. Vacuums of approximately 2.5 inH₂O were observed in DPE-7 and DPE-8 by the end of the test.

Grab air samples were collected after 1 hour and at the conclusion of the test. Air samples were collected prior to the treatment system.

Groundwater drawdown

The radius of influence for groundwater extraction was approximately 27 feet based on the multi-well test. Drawdown of 1 foot is predicted at a distance of approximately 12 feet from a vertical DPE well. Based on the pilot test data, a DPE well spacing of approximately 20 feet would be required to achieve a drawdown of 2 feet throughout the treatment plume.

Groundwater extraction rate

Groundwater extraction for each pilot test can be calculated based on the gallons of water treated per increment of time. Groundwater extraction rates ranged from about 2.5 gallons per minute towards the end of the DPE-3 test to less than 0.25 gallons per minute for the DPE-6 test. The DPE-3 test was impacted by significant snowmelt (and possibly proximity to the former excavation) on the day of the test and is not considered to be representative. The rate during the multi-well test was approximately 1.3 gallon per minute from the 3 wells. Based on the test data, water extraction rates of 0.25 to 0.5 gallons per minute per well should be expected during start-up of the system. Groundwater extraction rates typically drop significantly during continuous operation of the system, however transient infiltration events due to snowmelt and heavy rain can

cause sudden increases in the volume of water extracted.

Vapor extraction zone of influence

The radius of influence for vapor extraction was approximately 24 feet based on the multi-well test. This is based on a 7 inHg vacuum test. Higher vacuums will increase the radius of influence for vapor recovery. Based on the pilot test data, a DPE well spacing of 45 feet or less (at higher vacuum) would be required to achieve vapor withdrawal throughout the treatment cell. The test data indicates that the current DPE spacing is sufficient to recover vapor from the treatment cell.

Vapor extraction rate

The vapor extraction rate for each DPE wellhead varied from approximately 10 cfm to 15 cfm. The vapor extraction rate measured at the Site is consistent with other DPE systems that have been operated in northern Pennsylvania. The vapor extraction rate indicates that a blower that can produce 125 cfm at 12 inHg will be sufficient for the current system of DPE extraction wells.

Air Quality Data

The influent air samples were collected to assist with the calculations of carbon usage and changeout frequency. The samples were collected using single use disposable tubing and quick-pull 0.5 -liter summa canisters. The samples were tested utilizing the TO-15 method for unleaded gasoline compounds and a select list of other gasoline compounds. Results of air quality samples are included in Appendix C. Although the air samples provide an initial estimate of carbon loading, vapor concentrations typically increase for several months after system start-up.

13.3.4 LONG TERM TESTS AND MONITORING

13.3.4.1 General

The primary pilot test tasks in October 2015 were as follows:

1. A multi-well test utilizing simultaneous extraction at DPE-3, DPE-4, and MW-4 for a period of approximately 48 hours.
2. Data tabulation and analysis to establish drawdown and long term discharge rates.

The pilot testing was conducted on October 29 through October 31, 2015. During the pilot testing, the following parameters were monitored:

1. Vacuum in the DPE wells being tested, in inches of mercury (inHg).
2. Groundwater extraction rate from the DPE wells being tested, in gallons per minute (gpm).
3. Groundwater levels in the piezometers and DPE wells not being tested at that time, in feet below top of casing (ft-toc).
4. Measured temperature of the intake air as it enters the blower, in degrees Fahrenheit (°F).
5. Vacuum in the piezometers and DPE wells not being tested at that time, in inches of mercury (inHg).

Air flow from the well heads would have also been measured but one of the extraction points required more make-up air at the well head than could be supplied by the sampling port. As a result, the DPE connection at the well head was not tightened and the air flow at the well heads could not be quantified. Air flow data from individual well heads is available from the March 2015 pilot tests. In addition to the above measurements, discharge samples (treated effluent) were collected at 8 hour intervals to satisfy discharge permit requirements.

13.3.4.2 Test Results

Dual phase extraction was achieved during the multi-well test. DPE at the site was easily achieved at vacuums of 6 to 7 inHg. The volume of air and groundwater generated by the system was consistent with the initial design of the DPE system. Vacuum data collected during the tests at nearby extraction wells indicate that soil vapor can be extracted from the treatment cell using the current array of DPE wells. Water level data indicates that the zone of influence of each extraction well will typically overlap. Although groundwater can be extracted from entire treatment cell using the current DPE array, the predicted drawdown from the short term pilot test raised concerns about the amount of drawdown that will be achieved within the treatment cell. As expected, the longer term pilot test data was more encouraging with respect to the amount of drawdown that will be achieved within the treatment cell. The longer term data implies that at least 1.5 to 2 feet of drawdown can be achieved throughout the majority of the treatment cell with the exception of the extreme southeast corner of the

Property (area of groundwater mounding) where the current aquifer framework precludes significant drawdown. As the majority of the contaminant mass is extracted via the vapor phase, drawdown is critical to the efficient removal of contaminants. Based on the PID data collected during the soil borings, the interval of impacted soil and groundwater near the top of the water table is approximately 5 feet to 8 feet in thickness. The southeast corner of the Property is part of the treatment cell. Groundwater mounding in the southeast corner potentially complicates the removal of contaminant mass from a portion of the treatment cell.

The data summary sheets and summary charts from the October 2015 pilot test activities are included in Appendix I. A detailed discussion of the pilot test results is provided below.

Multi-well Test (DPE-3, DPE-4, and MW-4)

Dual-phase wells DPE-3, DPE-4, and MW-4 were tested for a period of approximately 48 hours.

The DPE system operated within the range of 7 inHg to 13 inHg for the duration of the test. Total system airflow during the test was generally within the range of 120 to 140 cfm. The volume of make-up air that was required generally decreased during the course of the test as groundwater drawdown exposed additional areas of soil vapor that became available for extraction.

The multi-well test induced a measurable drawdown in all of the nearby monitoring locations. Time versus drawdown charts are included for DPE-1, DPE-2, DPE-7, MW-3, and MW-5R. The largest drawdown, approximately 2 feet, was observed in DPE-2.

Groundwater drawdown

The radius of influence for groundwater extraction was approximately 42 feet based on the longer duration multi-well test (versus 28 feet during the previously completed short duration tests). Drawdown of 1 foot is predicted at a distance of approximately 20 feet from a vertical DPE well. Based on the pilot test data, a DPE well spacing of approximately 40 feet would be required to achieve a drawdown of 2 feet throughout

the treatment plume. As the drawdown is limited upgradient of the former UST excavation by the area of groundwater mounding, this relationship should only be expected to apply to areas north and west (downgradient) of the former UST excavation. As the bulk of the residual source area is located north and west of the former UST area, this data provides a useful tool for remedial design.

Groundwater extraction rate

Groundwater extraction for the pilot test can be calculated based on the gallons of water treated per increment of time. Groundwater extraction rates ranged from approximately 8 gallons per minute at the start of the multi-well test to approximately 0.5 gallons per minute near the end of the test. As expected, the longer duration test demonstrated that discharge rates decrease rapidly after system start-up and long term extraction rates are expected to be 1 gpm or less. Groundwater extraction rates typically drop significantly during continuous operation of the system, however transient infiltration events due to snowmelt and heavy rain can cause sudden increases in the volume of water extracted.

Vapor extraction zone of influence

The radius of influence for vapor extraction was approximately 19 feet based on the multi-well test. The predicted radius of influence was slightly higher (24 feet) for the previously completed short duration tests. The radius of influence for the longer duration test may have been impacted by the significant rain event (2 inches in 24 hours) that occurred on the first day of the pilot test. The pilot test data indicate considerable variability in connectivity between vapor wells. As such, although the vapor extraction zone of influence appears to be sufficient in general, each area of the DPE array will need to be evaluated after start-up and operation of the overall system.

Hydraulic Conductivity Estimate

The observed drawdown in the observation wells was used to estimate a hydraulic conductivity for the area of the pilot test. The greatest amount of drawdown (around 2 feet) was observed in DPE-1, DPE-2, and MW-5R, therefore the drawdown data from these wells was selected for the hydraulic conductivity analysis.

Assumptions:

- 1) Test wells DPE-3, DPE-4, and MW-4 have to be considered a singular pumping well for the analysis.
- 2) A constant pumping (water withdrawal) rate of 0.5 gallons per minute.
- 3) Saturated aquifer thickness of 15 feet.
- 4) DPE-1 is approximately 25 feet from the general pumping area.
- 5) DPE-2 is approximately 30 feet from the general pumping area.
- 6) MW-5R is approximately 20 feet from the general pumping area.

The hydraulic conductivity is estimated from the distance-drawdown relationship between a pumping well (with known constant water withdrawal rate) and an observation well (with known distance from the pumping well).

The equation to calculate transmissivity (T) from this relationship is:

$$T = 264 \times Q \div \Delta s$$

(Equation from *Groundwater and Wells* by F.G. Driscoll, 1986)

Where Q is the pumping rate in gallons per minute (gpm) and Δs is the drawdown (in feet) observed over one full log cycle, determined by graphical analysis. The drawdown graph for DPE-1, DPE-2, and MW-5R presents the analysis.

Transmissivity has units of gallons per day per feet (gpd/ft) which can be converted to feet squared per day (ft²/d) by dividing by the amount of water that can fit into 1 cubic foot, 7.481 gallons per cubic foot (g/ft³). Transmissivity (ft²/d) can be converted to hydraulic conductivity by dividing it by the saturated aquifer thickness (ft).

Based on the analysis of drawdown for DPE-1, DPE-2, and MW-5R, the estimated hydraulic conductivity is **0.8 ft/day**. As expected, this estimate is significantly higher than the estimate from the slug/bail tests which measure conductivity across a very small portion of the aquifer materials.

13.3.5 SUMMARY

Evaluation of the data obtained during the pilot test indicate the following:

- ⊕ The Roots universal RAI blower with 7.5 hp 230V 3-phase motor capable of delivering 60 to 140 cfm at 12" Hg was successful in achieving dual-phase extraction from all individual and multiple DPE wells.
- ⊕ The estimated groundwater extraction rates from the current system could be easily handled by a DPE system using granular activated carbon (GAC) to treat groundwater as total system flow will not exceed 2 gallons per minute during normal conditions.
- ⊕ The radius of influence for recovering soil vapor was calculated to be between 19 and 24-feet utilizing a modest vacuum of 7 inHg. The test indicates that the current DPE wells could be used without modification to recover soil vapor from the treatment cell.
- ⊕ Although groundwater can be extracted from entire treatment cell using the current DPE array, the predicted drawdown from the short term pilot test raises concerns about the amount of drawdown that will be achieved within the treatment cell. The longer duration test predicted at least 1.5 feet of drawdown throughout the majority of the treatment cell. Drawdown should be monitored and additional measures taken, as needed, to facilitate sufficient drawdown throughout the treatment area.
- ⊕ Each DPE well produced approximately 10 cubic feet per minute (CFM) to 15 CFM during the tests. At that flow rate, a modestly sized blower capable of 125 scfm at 12 inHg could be utilized with the current array of DPE wells.
- ⊕ The granular activated carbon (GAC) effectively removed gasoline constituents from the air and soil during the course of the tests.
- ⊕ The longer duration pilot test provided a useful estimate of hydraulic conductivity for the area of the treatment cell.

13.4 REMEDIAL SYSTEM CONCEPTUAL DESIGN

Based on the site characterization and our understanding of the aquifer properties and pilot test results, it is Converse's opinion that DPE will be the most effective means of rapidly reducing contaminant mass beneath the Property in pursuit of a relief from further liability in accordance with Chapters 245 and 250. It has been our experience that the current DPE components that are installed at the Property (combined with an appropriate extraction and treatment system) would, under normal circumstances, remove more than 95% of the contaminant mass over the next 3 to 4 years. Given the potential limitations of the current system to provide sufficient drawdown throughout the treatment cell, this approach would rely to some extent upon normal seasonal fluctuations and dry periods to expose additional smear zone to the vapor extraction

component of the system. As reliance upon "potential drawdown" and weather fluctuations are inadequate to ensure that the selected remedial system is a cost effective solution, additional evaluation of drawdown and system efficiency is proposed during the initial 6 months of operation. After the initial period of operation and evaluation, system modifications will be considered and implemented, as necessary, to improve the cost benefit of the system. Any proposed substantive changes in technical approach or monitoring will be submitted to PADEP for approval prior to implementation.

A revised system that provides additional drawdown throughout the treatment cell could reduce the time required to operate the remedial system. It is our understanding, that PADEP and USTIF are looking for a system that will remediate the impacted media in the most efficient manner based on current conditions at the property.

After considering the configuration of the current DPE components, site characterization data, and hydrologic constraints, it is our opinion that completion and start-up of the current DPE system will provide the greatest short term benefit, as any further design modification and testing would further delay the start of the remedial system. Additional monitoring locations (piezometers completed to 15 feet with 13' of screen) will be added within the treatment cell to allow assessment of drawdown during the initial months of operation. Piezometer locations are shown on Figure 14. Piezometer monitoring is discussed in the groundwater monitoring portion of Section 13.5. Any required modifications to the remedial system will be based on drawdown and contaminant mass reduction during the initial 6 months of operation. Criteria for evaluation of the system modifications will include cost effectiveness.

As the recent construction has temporarily mobilized contaminants and changed the pattern of infiltration at the Property, we propose to assess the current pattern of surface water infiltration and meet with the owner's representatives to find ways to minimize infiltration in the southeast corner of the Property. Contributions to the mounding may arise from multiple sources that include permeable backfill in the former UST excavation, rainwater infiltration along the eastern edge of the asphalt pavement, utility lines that traverse the eastern edge of the property and mechanisms that have yet to be identified. Converse is preparing conceptual plans to mitigate at least some

portion of the mounding as a means of increasing the effectiveness of the proposed remedy. The plans to mitigate the groundwater mounding are not part of the proposed remediation and do not involve the extraction or treatment of impacted media, however they are expected to improve the effectiveness of the selected remedy.

13.5 DUAL-PHASE EXTRACTION SYSTEM

The initial DPE design incorporated ten (10) DPE wells connected with two (2) 2-inch schedule 80 piping runs (5 DPE wells per piping run). A plan view of the DPE system components is included as Figure 11A of Appendix A. The results of the pilot tests indicate that dual-phase extraction is an appropriate remedial technology to address the impacted media. As discussed previously, additional monitoring components (piezometers) will be incorporated during the initial 3 month period to assess water levels (drawdown) within the treatment cell and the rate of contaminant mass reduction. The system may require modification at the end of the initial 6 month period. The selected system is discussed in the following sections.

DPE COMPONENTS

No alteration to the current DPE well array is proposed at this point in time. A DPE well head that will allow for simultaneous recovery of water and soil vapor will be constructed within each of the ten (10) DPE system road vaults. The 2-inch DPE wells are hooked to the 2-inch system piping beneath each well head. A one-inch drop tube will be installed at each wellhead to a depth of approximately 12.5 feet to serve as the DPE extraction point. Separate shut off valves for the drop tube and 2-inch well will allow wells to be used for dual-phase extraction or soil vapor extraction only. Air valves at the top of the 2-inch casing will allow air to be added at the wellhead to facilitate entrainment of the groundwater and soil vapor. A cap at the top of the well head allows water levels to be collected through the 1" drop pipe. Sample ports will be available at each wellhead to check vacuum and collect vapor measurements. Figure 11B shows a typical wellhead configuration.

The 2-inch schedule 80 piping that is currently stubbed up along the east side of the building will be continued to the location of the treatment shed. The approximate location of the shed is shown on Figure 3. The shed will be a heated "amish" type wooden shed constructed of 2x4 lumber with an asphalt shingle roof. Typically a 10

foot by 14 foot shed is sufficient to house the treatment system. The shed will be mobilized to the site with remedial system components, piping, heater, and electrical components already installed.

DPE TREATMENT SYSTEM

The DPE treatment system will consist of a timer/control panel, one aqueous phase knockout drum, a $\frac{3}{4}$ hp liquid phase transfer pump, a positive displacement rotary-lobe blower system (as previously described), a $\frac{1}{2}$ hp heat exchanger, an 800-pound vapor phase granular activated carbon (GAC) treatment unit, two (2) 200-pound vapor phase GAC polishing units, and two (2) 200-pound aqueous phase GAC units. Bag type sediment filters will be added to the treatment stream as needed to protect the GAC units. As previously discussed, a motor and blower combination that can produce at least 125 scfm at 12 inHg will be utilized. The blower motor will require a 230 volt 3-phase electrical service. A schematic of the proposed DPE remedial system is included as Figure 12. Current conditions indicate that explosion proof components are not required.

System piping prior to the blower will be Schedule 40 and Schedule 80 PVC. Sample ports will be constructed of brass. Piping within 3 feet of the blower and between the blower and heat exchanger will be black steel, heavy gauge copper, or high temperature reinforced automotive type tubing rated for 225 degrees F. Connections between the air canisters will be "quick connect" pressure fittings.

A tangential-inlet (or de-mister type), steel knockout drum will be located upstream of the blower, and will enhance the condensation of the water vapor entrained in the extracted soil vapor. The vapor phase will be drawn through the blower and passed through one (1) 800 pound GAC unit and two (2) 200-pound GAC units (or similar) arranged in series for treatment prior to discharge. The air discharge will be vented to the atmosphere above the roofline of the building. Water that collects in the knockout drums will be pumped through the liquid phase GAC canisters for treatment prior to discharge. The treated water will be discharged to the infiltration gallery (pending approval) or in accordance with another approved method identified during the permit process. The 230V 3-phase electric will be taken from the overhead pole that is located at the southeast corner of the property via subgrade piping that was installed during site

development activities. Cellular service and a logic controller will be incorporated in the control panel to allow remote monitoring of the treatment system.

SYSTEM INSTALLATION

Subject to subcontractor availability, we estimate that it will take 3 to 5 weeks to get the DPES system permitted, installed, and started.

Trench width will be kept to a minimum (approximately 24") to avoid unnecessary disturbance of the area. Trench margins in asphalt, if applicable, will be saw cut. Trench depth is anticipated to be 40 inches. Existing piping was installed approximately 30 inches below unfinished grade (prior to paving) and is expected to be approximately 32 to 36 inches below pavement at the Site. Trenches will be backfilled with native material and compacted with the backhoe bucket. Soil vapor screening will be used to segregate any impacted soil for subsequent testing and off-site disposal.

Permits/approvals are required for the air and water discharges from the DPES. Converse will comply with PADEP/EPA discharge permits and approvals. The EPA UIC Program has approved a subsurface discharge to groundwater via the existing infiltration gallery that is located north of the building.

Startup of the system will be initiated after permits and approvals are in place and the system has been installed and tested. The DPE system will be monitored on a daily basis for the first five (5) to ten (10) days of operation (system start-up) and as needed during the first month of operation. Converse emergency contact information will be printed on the exterior of the treatment shed. The cellular monitoring system incorporated in the system control panel will notify the Converse service representative when the system shuts down or issues a fault code. Faults that are reported to Converse include excessive water pressure, vapor back pressure (adjusted to blower specs), high temperature conditions, high water in the knockout drum, and water on the floor of the shed. High vacuum is precluded by a vacuum relief valve installed above the blower.

An untreated air sample will be collected from the DPES for laboratory analysis (method TO-15) at the end of the first month of operation and on a quarterly basis thereafter.

The air samples will be analyzed for common unleaded gasoline constituents. Air data will be used to calculate carbon loading and the mass of contaminant removed. Influent and effluent air is monitored during twice monthly maintenance visits with a PID.

Based on the performance of the system at start-up, Converse will adjust the performance of the DPES to operate within the physical constraints imposed by the geology and hydrogeology of the site. Converse will analyze the initial performance data of the DPES to assess the efficacy of the remedial system. If significant modifications are necessary, Converse will modify the design to meet the performance needs of the project. System modifications that require changes in the remedial technologies or permit requirements will not be undertaken without PADEP approval.

SYSTEM OPERATION AND MAINTENANCE (O&M)

Remedial System Inspection Schedule

Converse will monitor the remedial system daily for the first week to two weeks of operation and as needed during the first month of operation. Thereafter, the system will be monitored at least twice per month. As discussed, cellular monitoring will be incorporated in the system controls.

Air Discharge Monitoring and Maintenance

PADEP does not generally require the sample collection and laboratory analysis of the air discharge from the type of source proposed herein. Converse will monitor the air discharge from the vapor phase GAC units using a photoionization detector (PID). As needed, the influent will be assessed with an LEL meter to maintain safety. The GAC canisters will have a manifold to allow for the screening of the air discharge between the units and at the discharge from the final canister. The field screening readings will be recorded and included in subsequent reports.

When field screening indicates breakthrough from the main vapor phase GAC unit (defined as effluent readings greater than 50% of influent readings or greater than 50 units on the PID), arrangements will be made for on-site replacement of the carbon. The 200-pound polishing units will likewise be replaced when breakthrough is indicated. Per standard practice, during each change-out the spent units will be removed or replaced and an unused GAC unit will be added at the downstream end of the

treatment series. The spent GAC will be tested and returned to the carbon supplier for appropriate disposition.

Groundwater Discharge Monitoring and Maintenance

The aqueous phase GAC canisters will require more frequent replacement during the first six-months of operation of the DPES. Change-out frequency will depend on the flow rate of the DPES and the concentration of hydrocarbon constituents in the water/condensate. The first unit will be changed out when discharge concentrations exceed 75% of the RMSC SHSs for any constituent or at a suitable time predicted to avoid exceedance of applicable discharge criteria. Per standard practice, during each change-out the spent units will be removed or replaced and an unused GAC unit will be added at the tail end of the treatment series.

The water/condensate discharge will be sampled as required by permits or on a quarterly basis if not otherwise required.

SOIL GAS AND GROUNDWATER MONITORING PROGRAM

Soil Gas

Soil gas at the extraction points will be routinely monitored for VOCs, O₂, CO₂, and LEL during the scheduled site inspections. The readings provide useful information about biodegradation, contaminant mass reduction, and progress towards remedial goals. The field readings will be recorded and included in subsequent reports. Analysis of the soil gas will be proposed as needed to effect proper monitoring of the DPES and to meet regulatory requirements.

Groundwater

Groundwater monitoring wells will continue to be sampled on a quarterly basis. No additional groundwater sample collection events are anticipated as the result of the installation and operation of the DPES. The DPES influent will be monitored (head space monitoring with PID) at start-up and on a bi-weekly (twice per month) basis during system operation. As the treatment system works ex-situ, we anticipate that the monitoring wells that have been temporarily converted to DPE wells will continue to serve as valid groundwater monitoring points.

The remedial system will be shut down for the purpose of collecting quarterly groundwater samples. It is important, however, to maintain drawdown in the treatment cell to increase the effectiveness of the remedial system. If possible, Converse would prefer not to wait for water levels to equilibrate to collect quarterly groundwater samples. The remedial systems are always down for repairs several days during each quarter. Converse can collect static water levels for the purpose of static level groundwater contour maps during extended system maintenance events if the remedial system has not been shut down prior to the sample collection event. Static water levels will be collected at the end of the O&M event prior to the re-start of the system.

Water levels in the piezometers and monitoring wells closest to the treatment cell will be measured during the twice monthly maintenance visits. The water levels will be used to evaluate system drawdown and design system modifications (discussed elsewhere) that may be required.

ASSESSMENT OF REMEDIAL SYSTEM EFFECTIVENESS

The DPES will be operated until field screening of the soil gas and the laboratory analysis of groundwater samples from the monitoring wells consistently indicate that the residual source area has been remediated sufficiently to demonstrate attainment of the selected standard. If applicable, soil samples will be collected in accordance with regulatory requirements to demonstrate attainment of the soil standards.

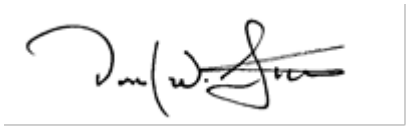
14.0 PLANNED ACTIVITIES

The following activities are currently planned:

- Installation and start-up of the selected remediation system.
- Twice monthly monitoring of the remediation system.
- Monitoring of drawdown within the area of impacted groundwater and modification of the remedial system, if necessary, to provide sufficient drawdown within the treatment cell.
- Continued assessment of factors that contribute to the area of groundwater mounding and implementation of controls to minimize the groundwater mounding that contributes to the off-site migration of contaminants.
- Quarterly Groundwater Monitoring and Reporting.
- Continued evaluation of contaminant fate and transport, as required.

15.0 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-seven (27) years of experience supervising site characterizations and providing environmental consulting services throughout the Northeast.

A handwritten signature in black ink, appearing to read "D. W. Swetland", enclosed within a rectangular box.

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

AFFIX
P.G. SEAL
HERE

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

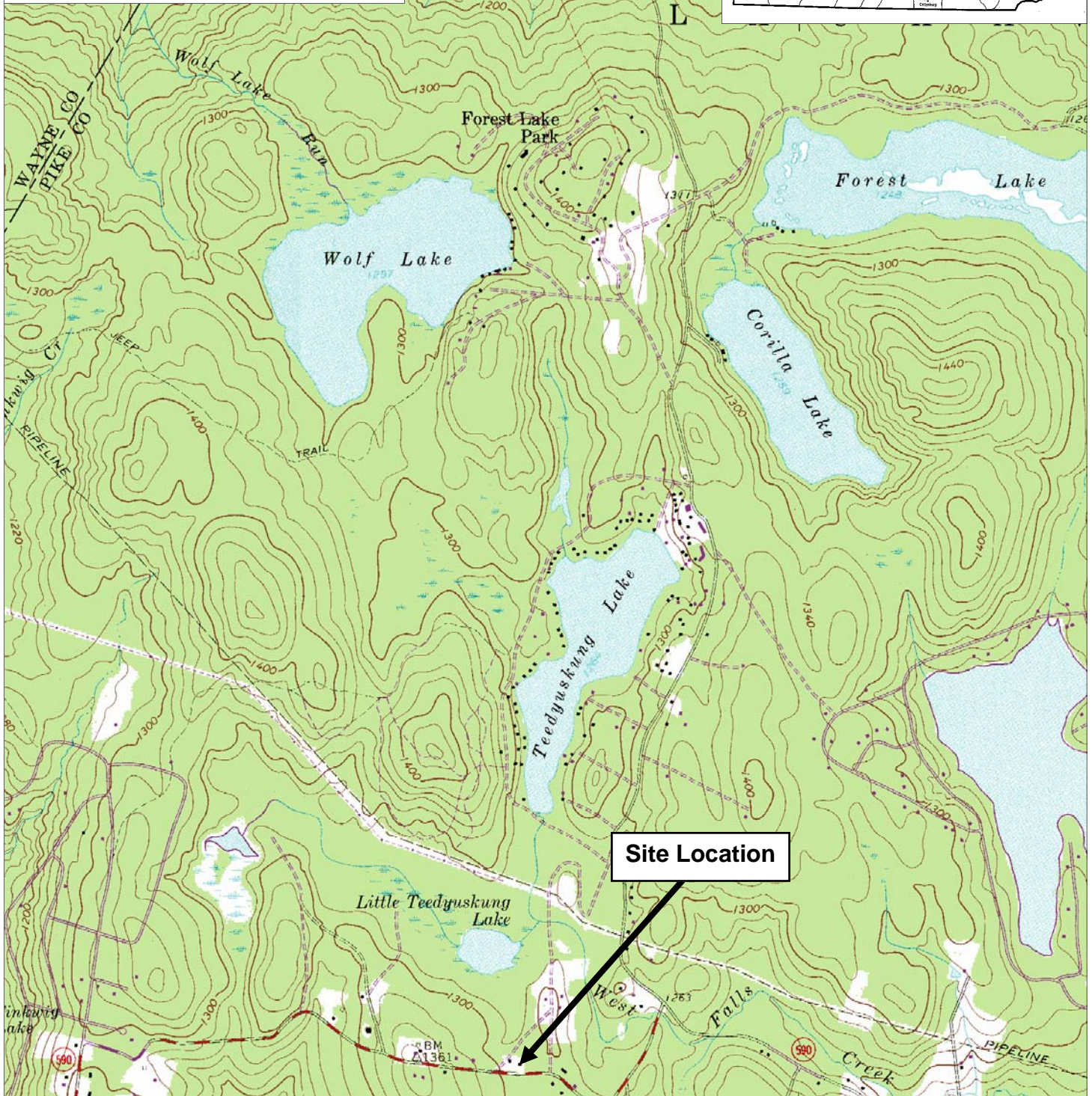
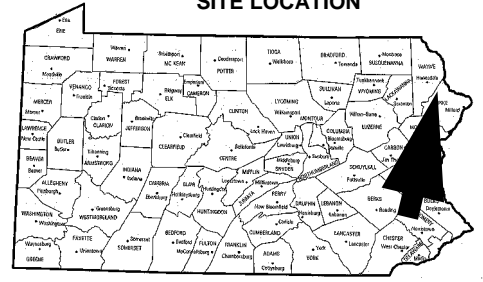


FIGURE 1: LOCATION MAP

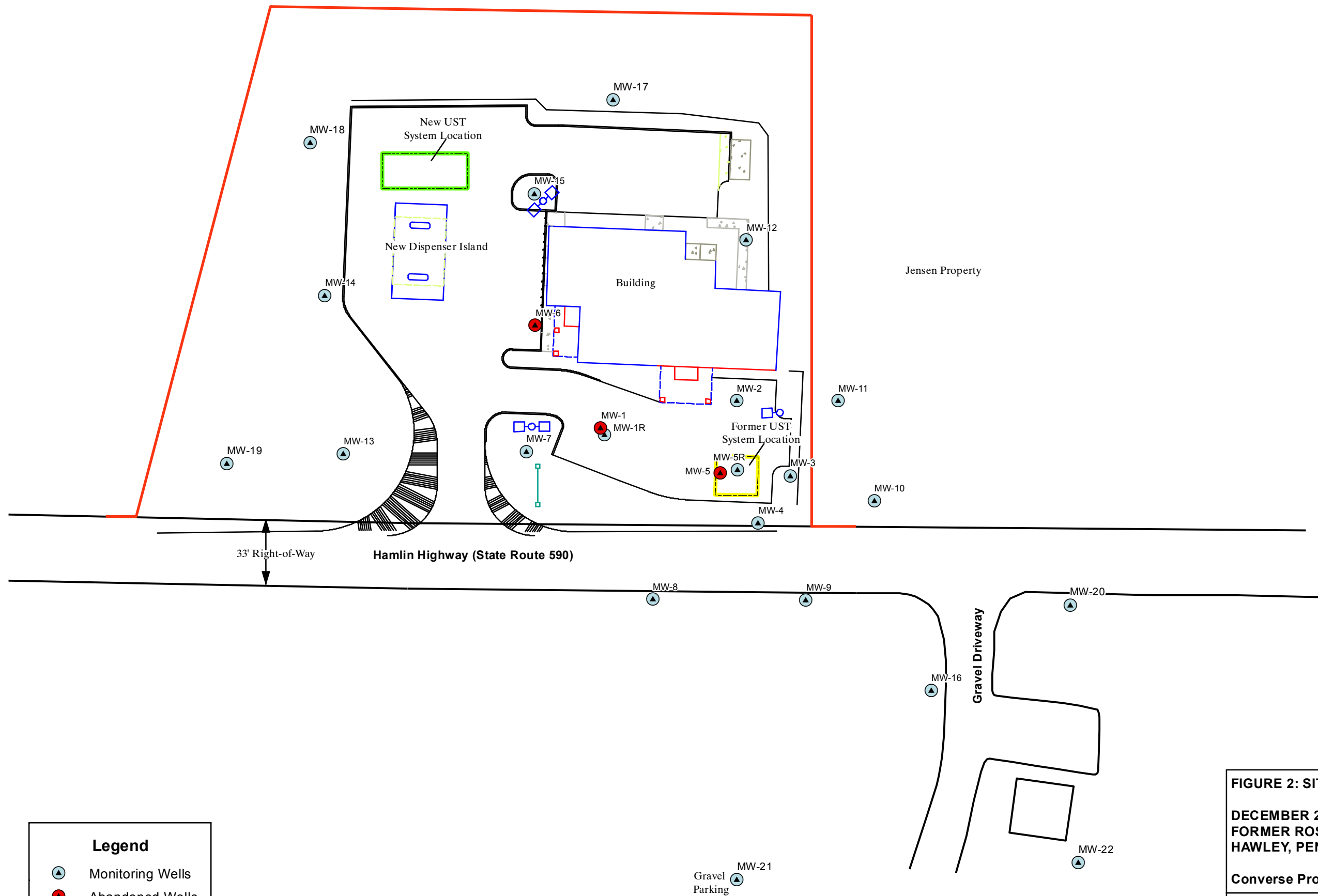
ROSEMERGY SITE
HAMLIN HIGHWAY (PA 590)
HAWLEY, PIKE COUNTY, PENNSYLVANIA

Converse Project Number 11-17829-01




Revised 01/09/13



CONVERSE CONSULTANTS
2738 West College Avenue
State College, PA 16801
(814) 234-3223



Legend

-  Monitoring Wells
-  Abandoned Wells
-  Property Boundary

1 inch = 50 feet

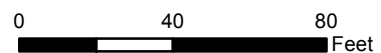


FIGURE 2: SITE PLAN

**DECEMBER 2015
FORMER ROSEMERGY SITE
HAWLEY, PENNSYLVANIA**

Converse Project Number 11-17788-01



Converse Consultants
2738 West College Avenue
State College, PA 16801

New Dispenser Island

Building

MW-6
(24)

500

1000

500

2000

MW-2
(1,725)

1500

2500

SB-18
(2,704)

SB-19
(2,806)

MW-1
(2,719)

MW-1R

MW-7

3000

SB-26
(2,791)

SB-16
(1,556)

Former UST
System Location

SB-17
(1,889)

SB-14
(1,300)

SB-12
(1,430)

SB-15
(5)

SB-27
(2,694)

SB-24
(3,009)

SB-21
(3,317)

SB-8
(1,498)

SB-10
(1,505)

MW-3

SB-23
(2,614)

SB-20
(3,121)

SB-9
(1,779)

MW-4

SB-11
(1,580)

SB-13
(1,720)

MW-11

MW-10

Hamlin Highway (State Route 590)

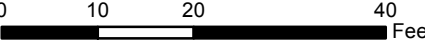
MW-8

MW-9

Legend

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

1 inch = 20 feet



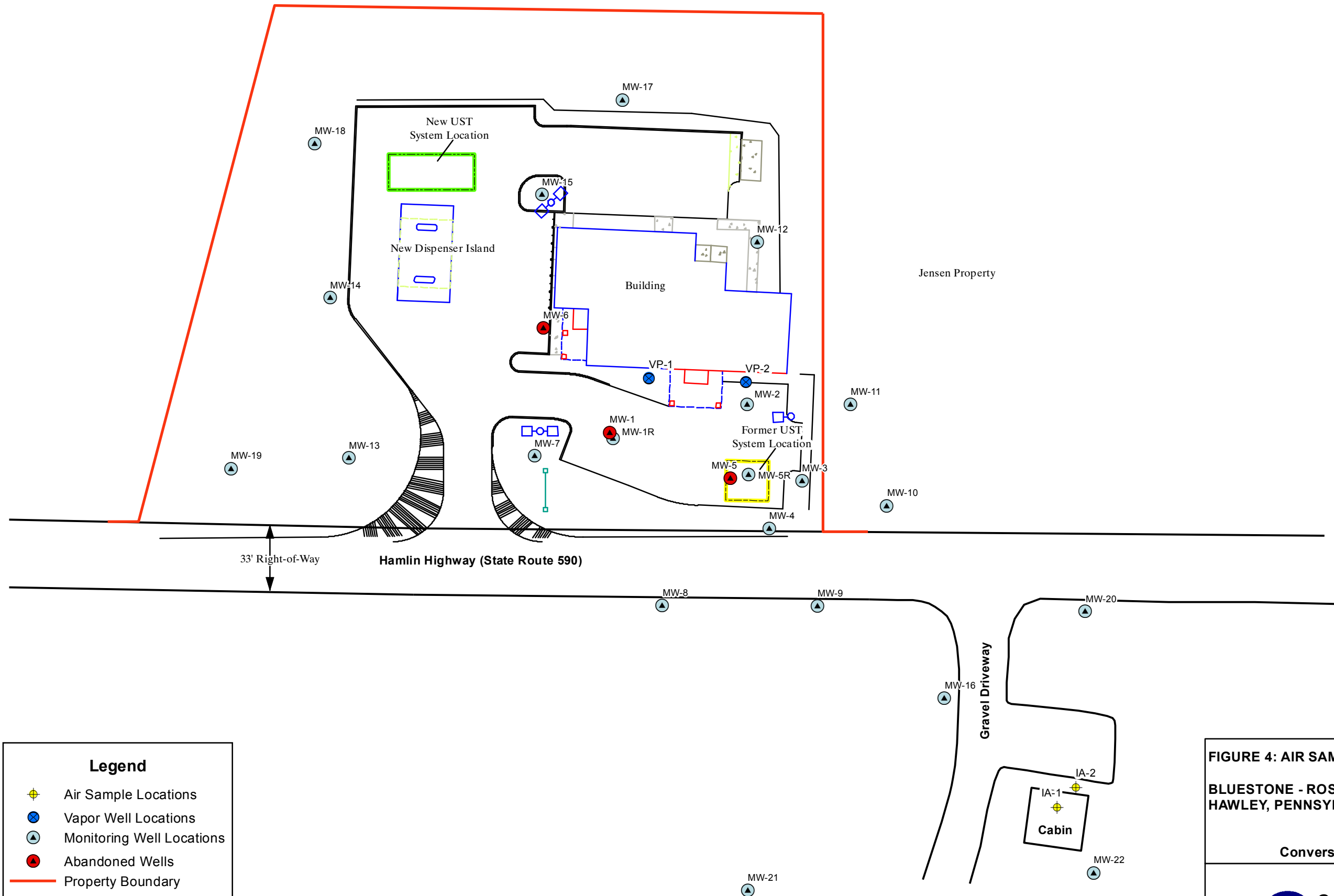
**FIGURE 3: SOIL BORINGS & MAXIMUM
PID READING ISOCONCENTRATION MAP**

**FORMER ROSEMERGY SITE
HAWLEY, PENNSYLVANIA**

Converse Project Number 11-17788-02



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



Legend

- ◆ Air Sample Locations
- ⊗ Vapor Well Locations
- ▲ Monitoring Well Locations
- Abandoned Wells
- Property Boundary

1 inch = 50 feet

0 50 100 Feet

FIGURE 4: AIR SAMPLE LOCATIONS

**BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA**

Converse Project Number 11-17788-01



Converse Consultants
2738 West College Avenue
State College, PA 16801

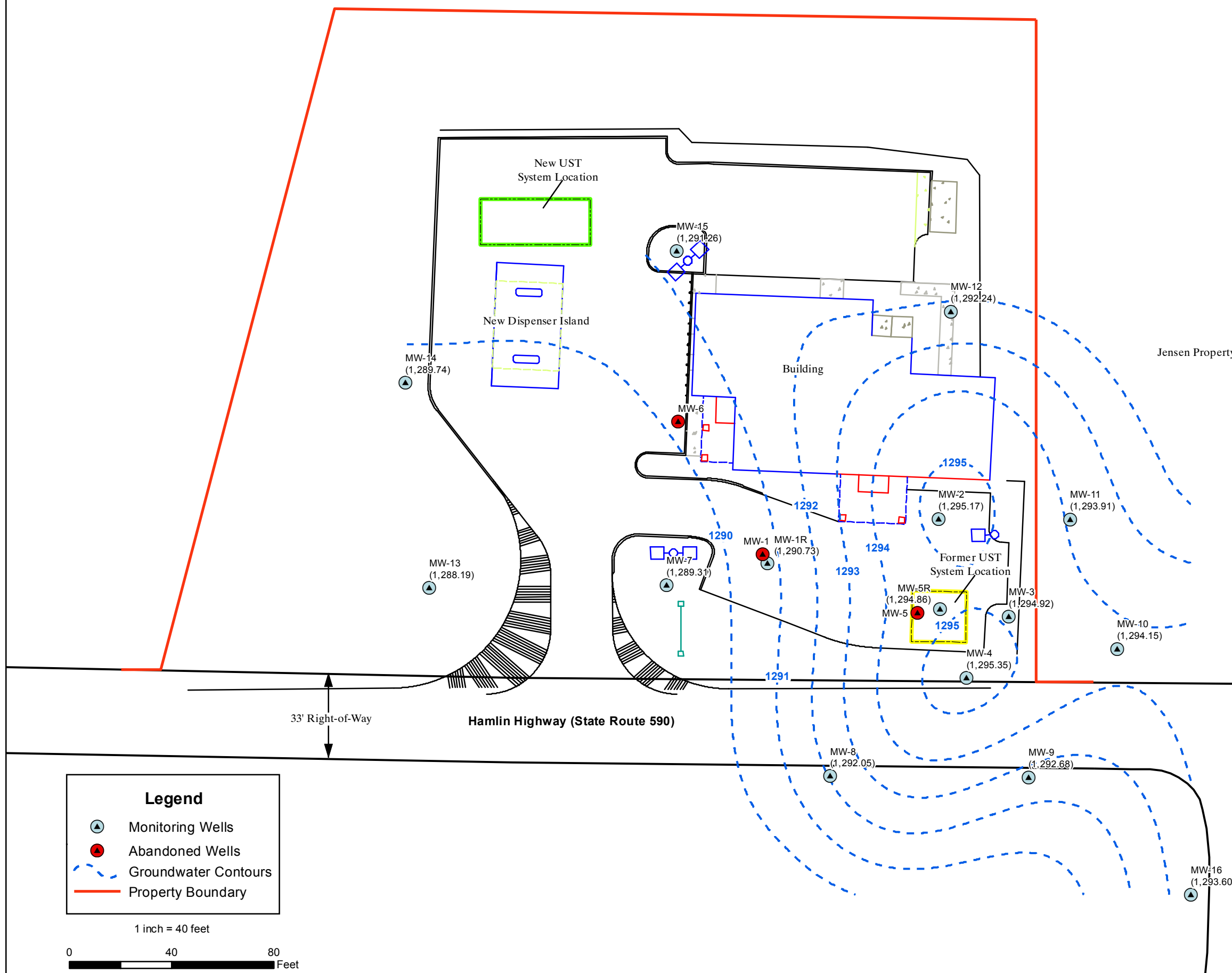


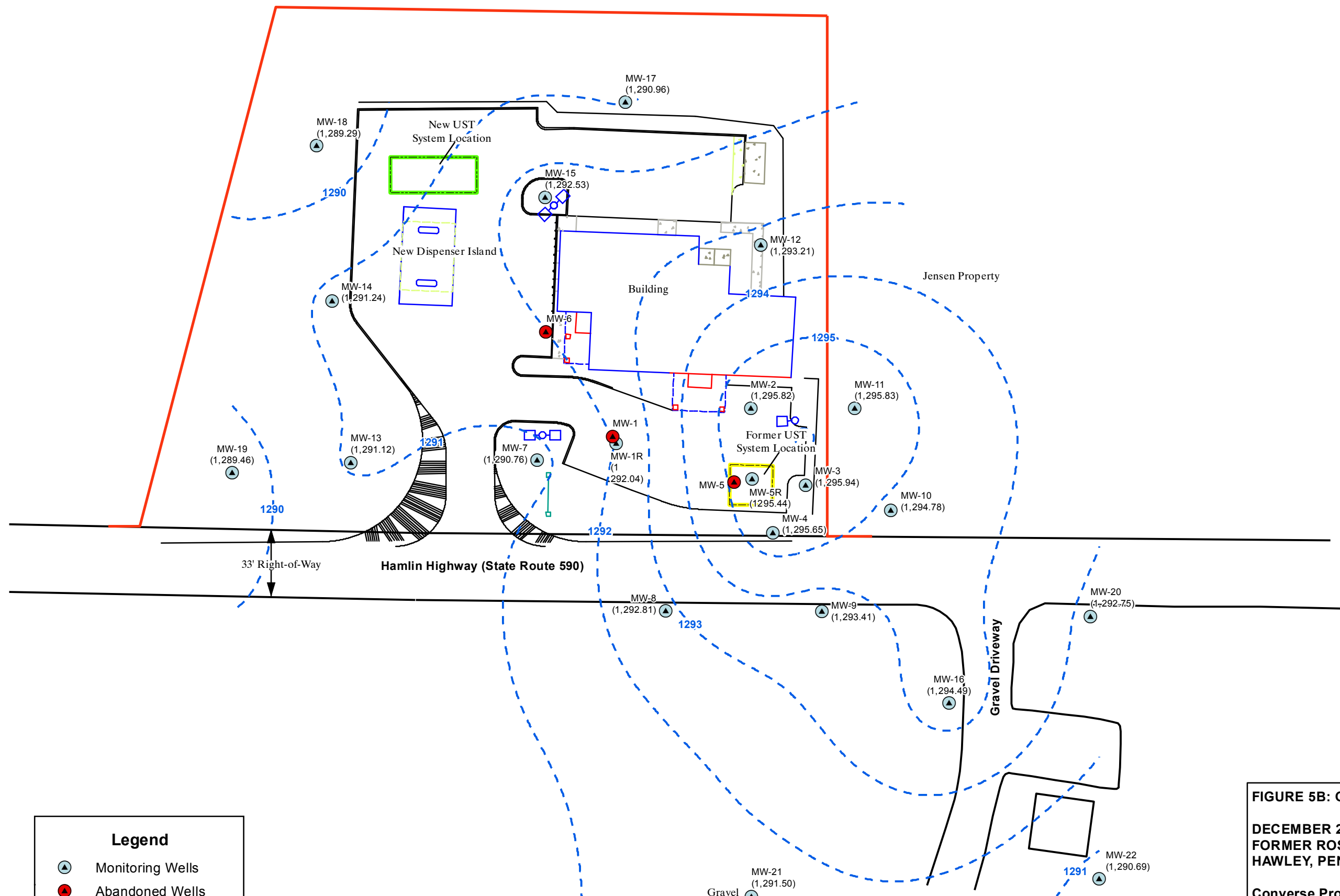
FIGURE 5A: GROUNDWATER CONTOUR MAP

AUGUST 2015
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01



Converse Consultants
2738 West College Avenue
State College, PA 16801



Legend

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

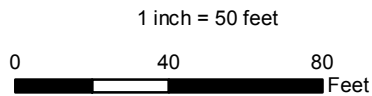


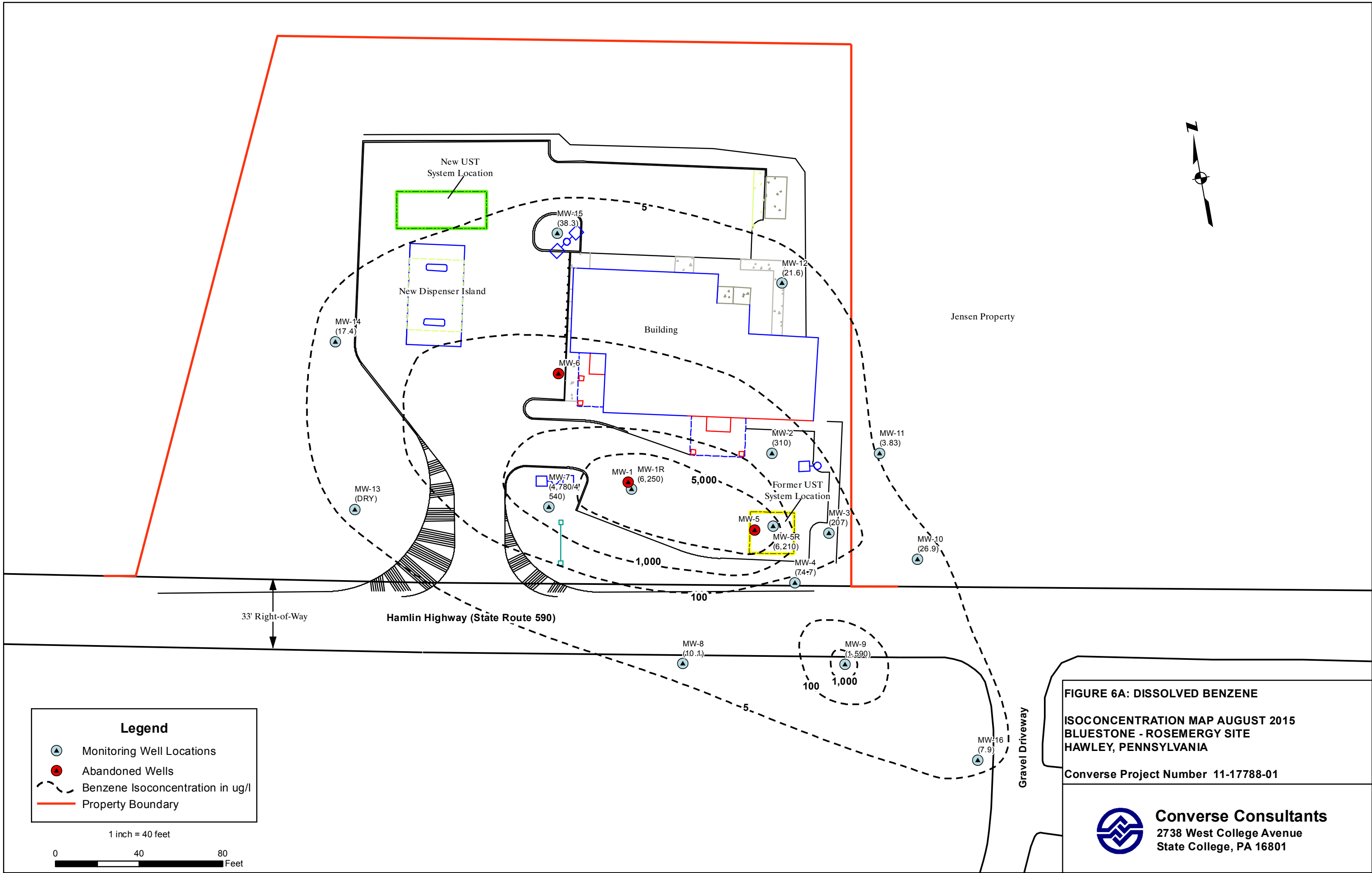
FIGURE 5B: GROUNDWATER CONTOUR MAP

DECEMBER 2015
 FORMER ROSEMERGY SITE
 HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01



Converse Consultants
 2738 West College Avenue
 State College, PA 16801



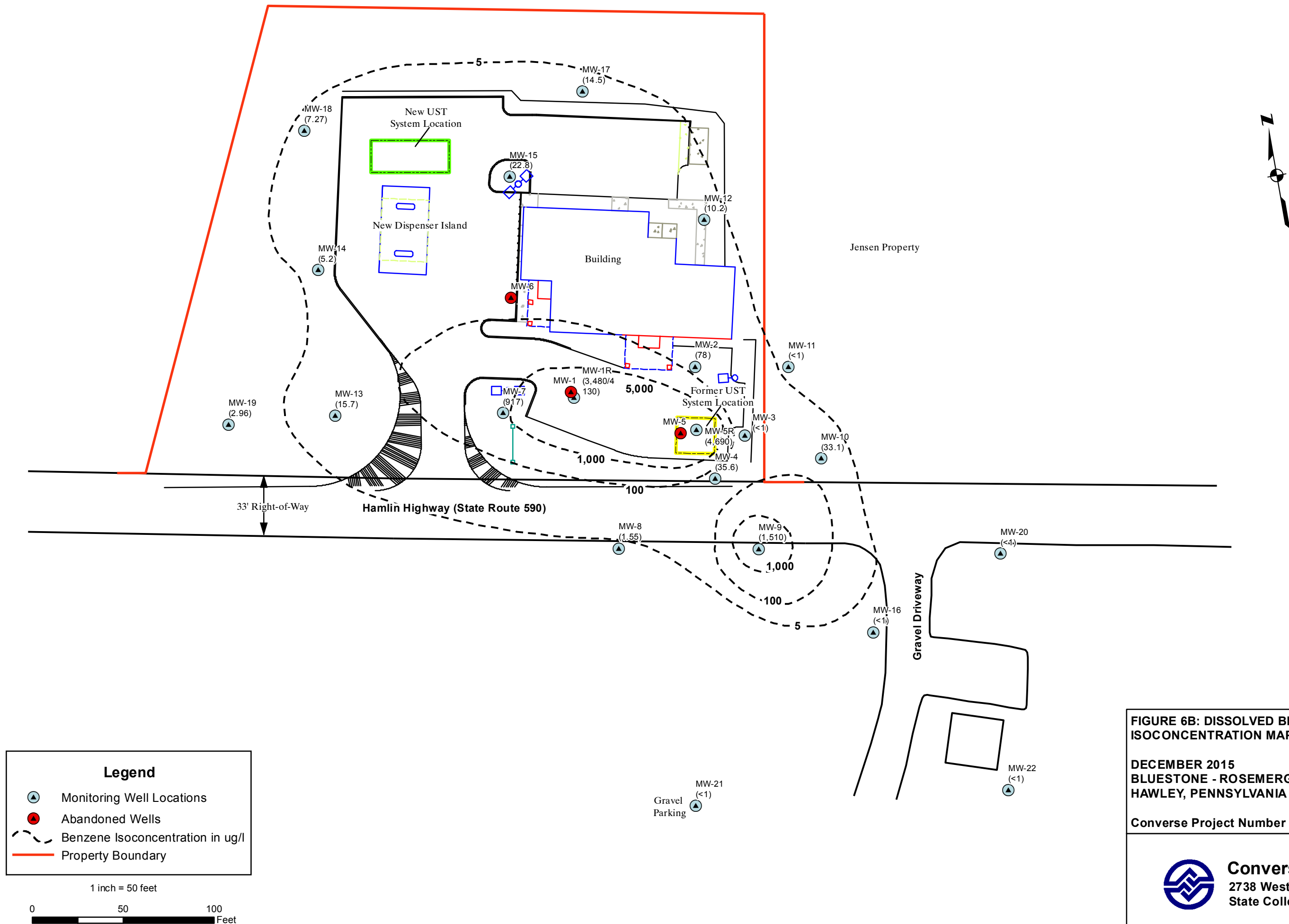


FIGURE 6B: DISSOLVED BENZENE
ISOCONCENTRATION MAP

DECEMBER 2015
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01



Converse Consultants
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State College, PA 16801

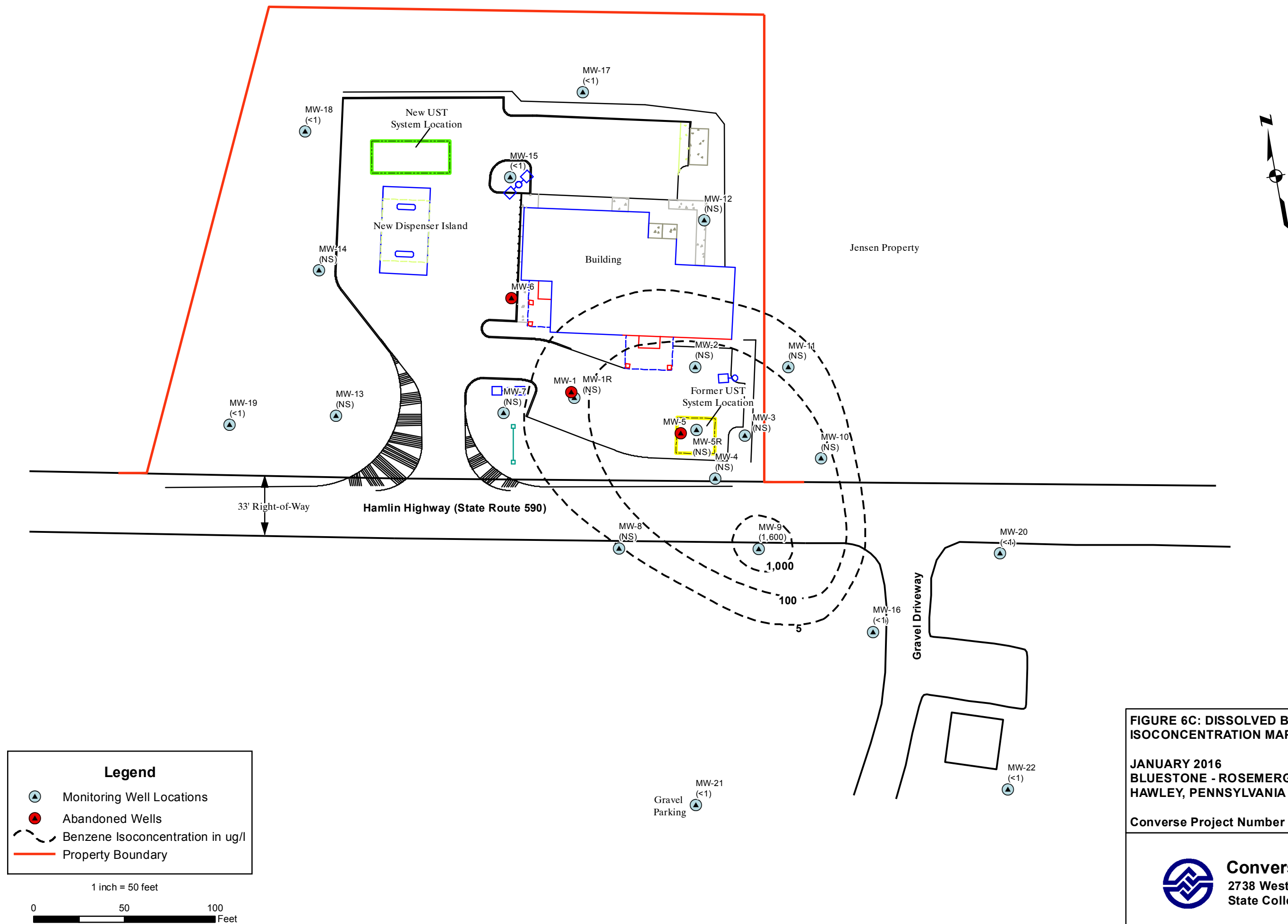


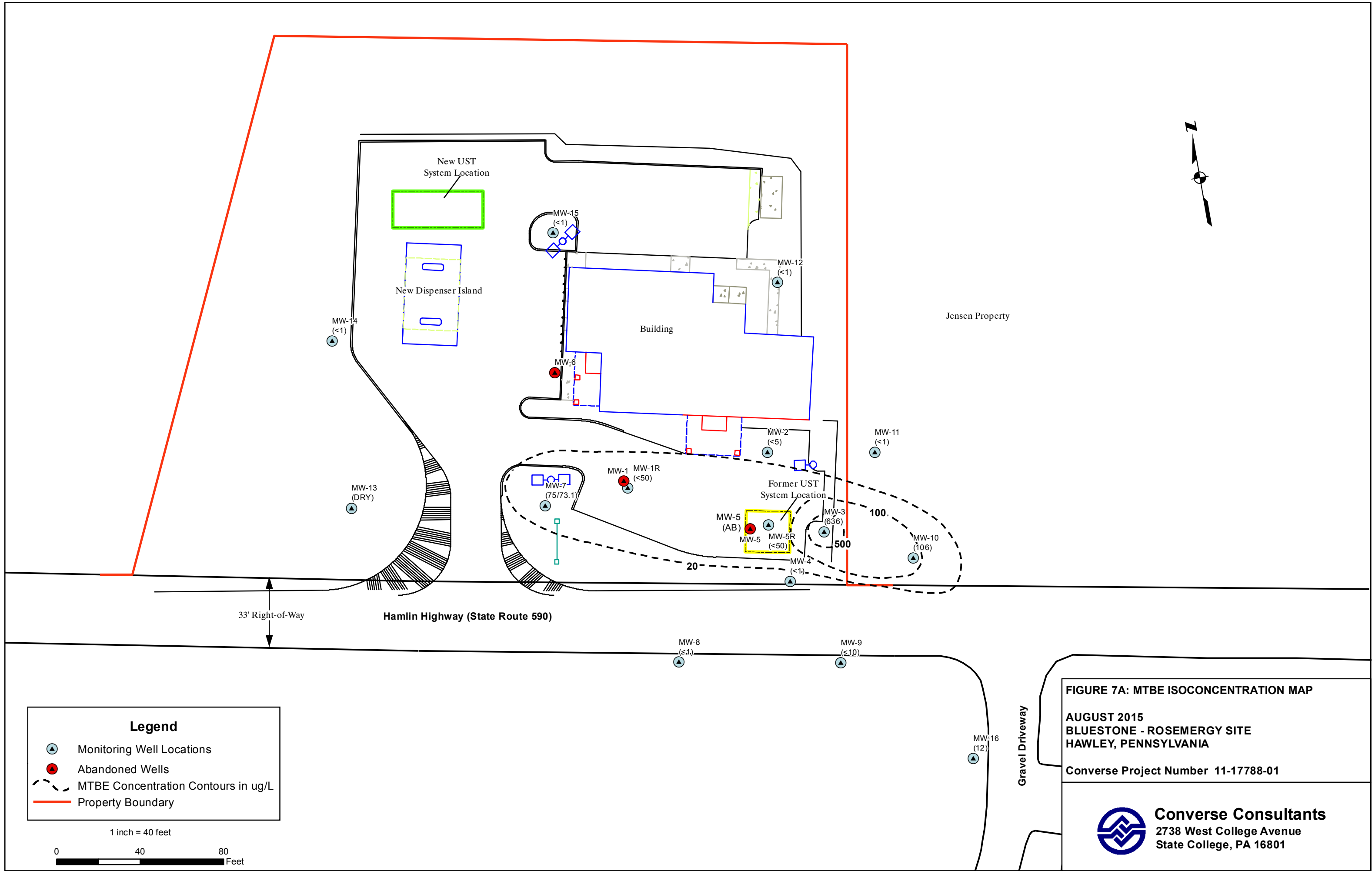
FIGURE 6C: DISSOLVED BENZENE
ISOCONCENTRATION MAP

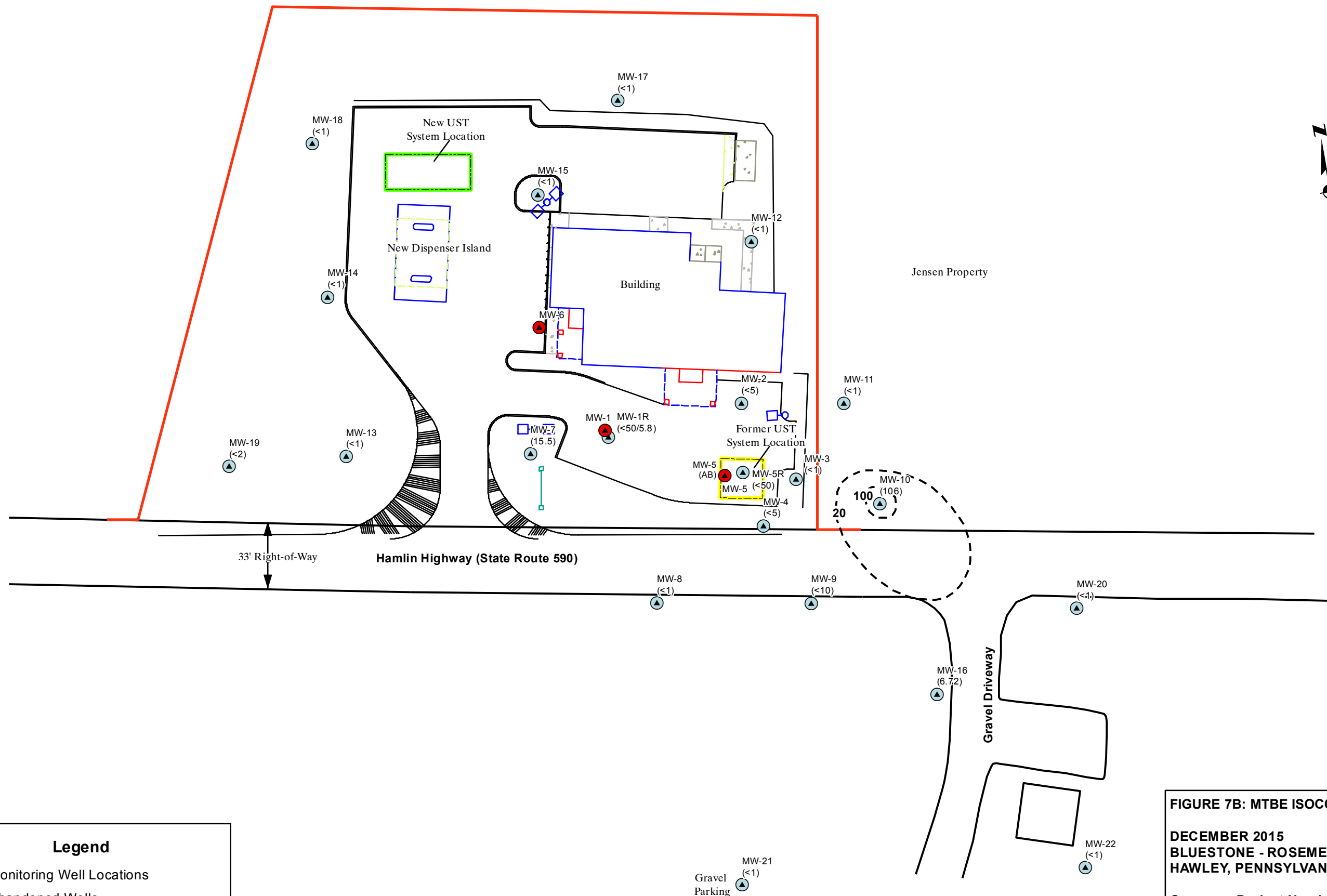
JANUARY 2016
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-03



Converse Consultants
2738 West College Avenue
State College, PA 16801





Legend

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

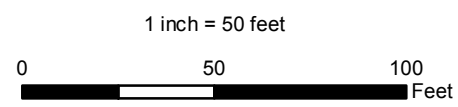



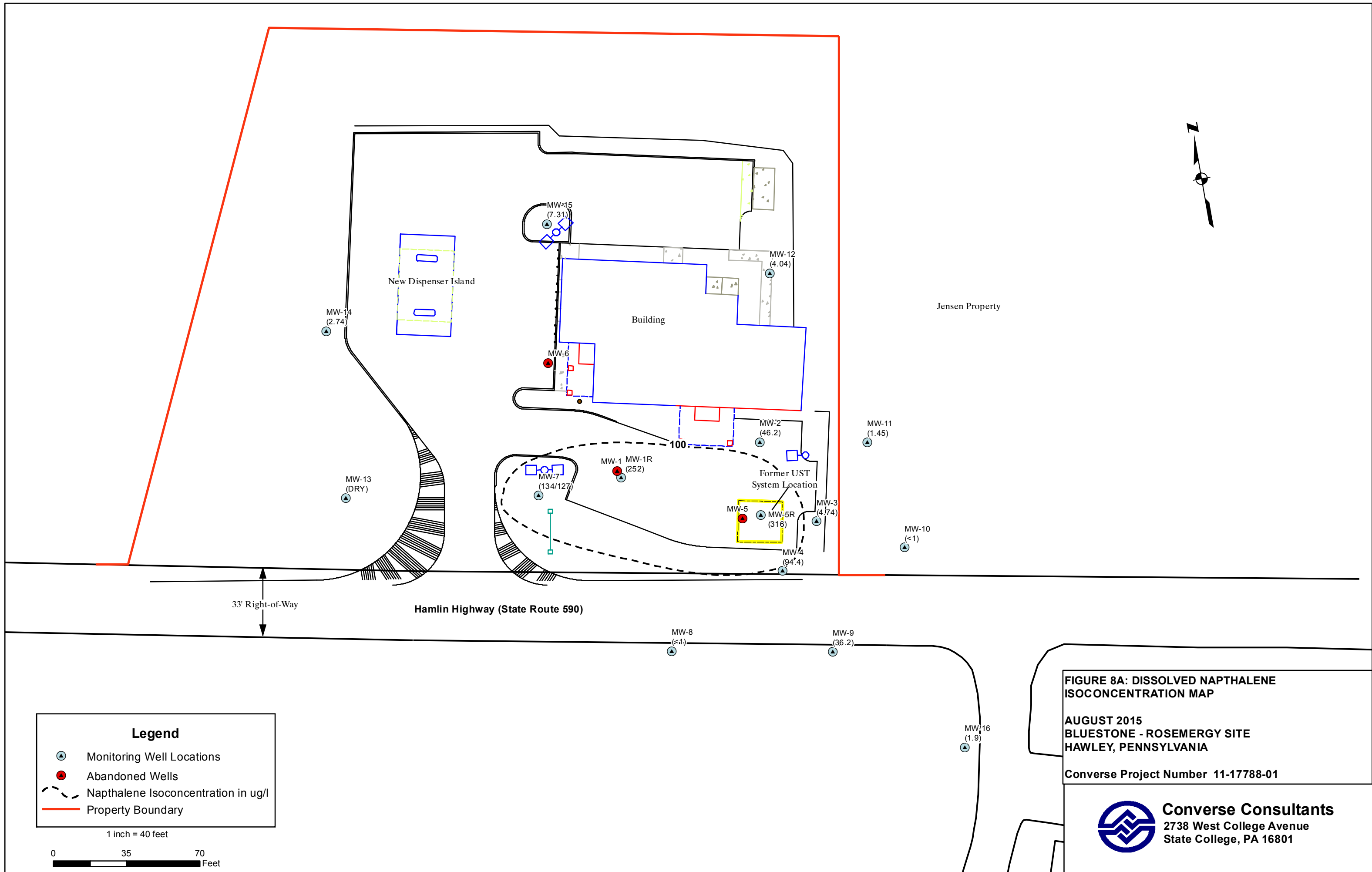
FIGURE 7B: MTBE ISOCONCENTRATION MAP

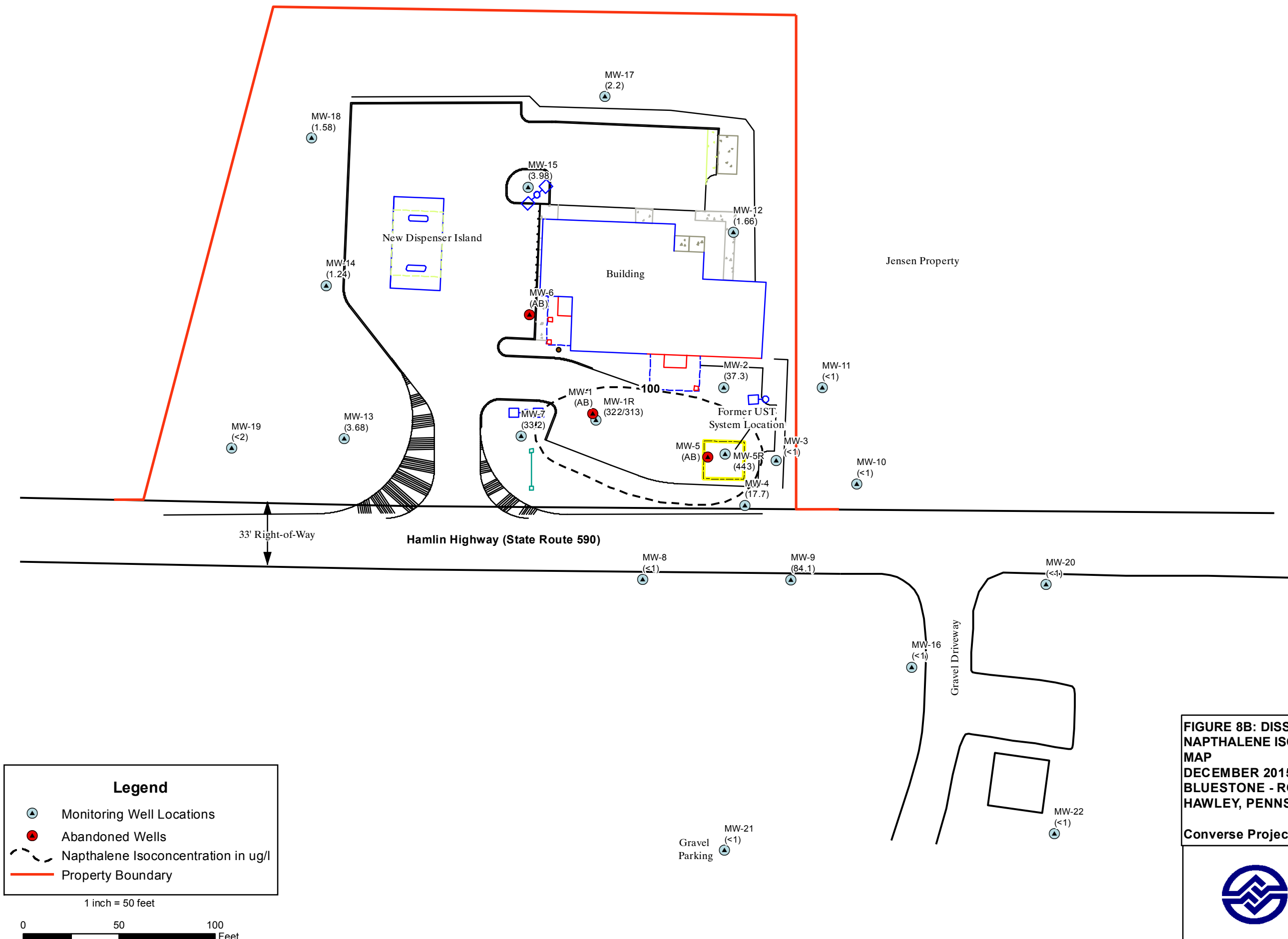
DECEMBER 2015
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01



Converse Consultants
2738 West College Avenue
State College, PA 16801





Legend

- Monitoring Well Locations
- Abandoned Wells
- Napthalene Isoconcentration in ug/l
- Property Boundary

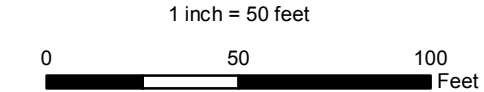


FIGURE 8B: DISSOLVED NAPHTHALENE ISOCONCENTRATION MAP
DECEMBER 2015
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA
 Converse Project Number 11-17788-01

Converse Consultants
 2738 West College Avenue
 State College, PA 16801

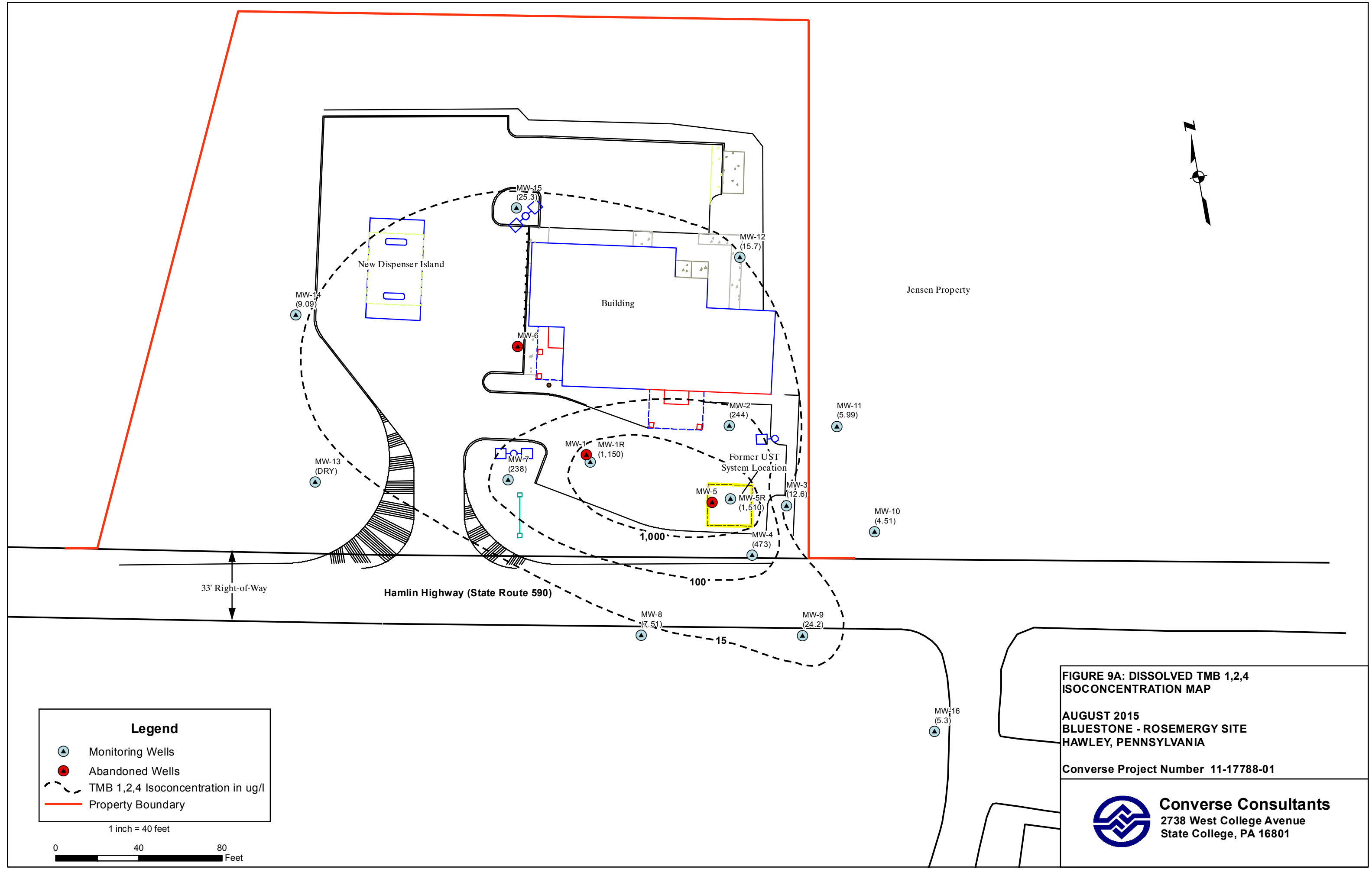


FIGURE 9A: DISSOLVED TMB 1,2,4
ISOCONCENTRATION MAP

AUGUST 2015
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01



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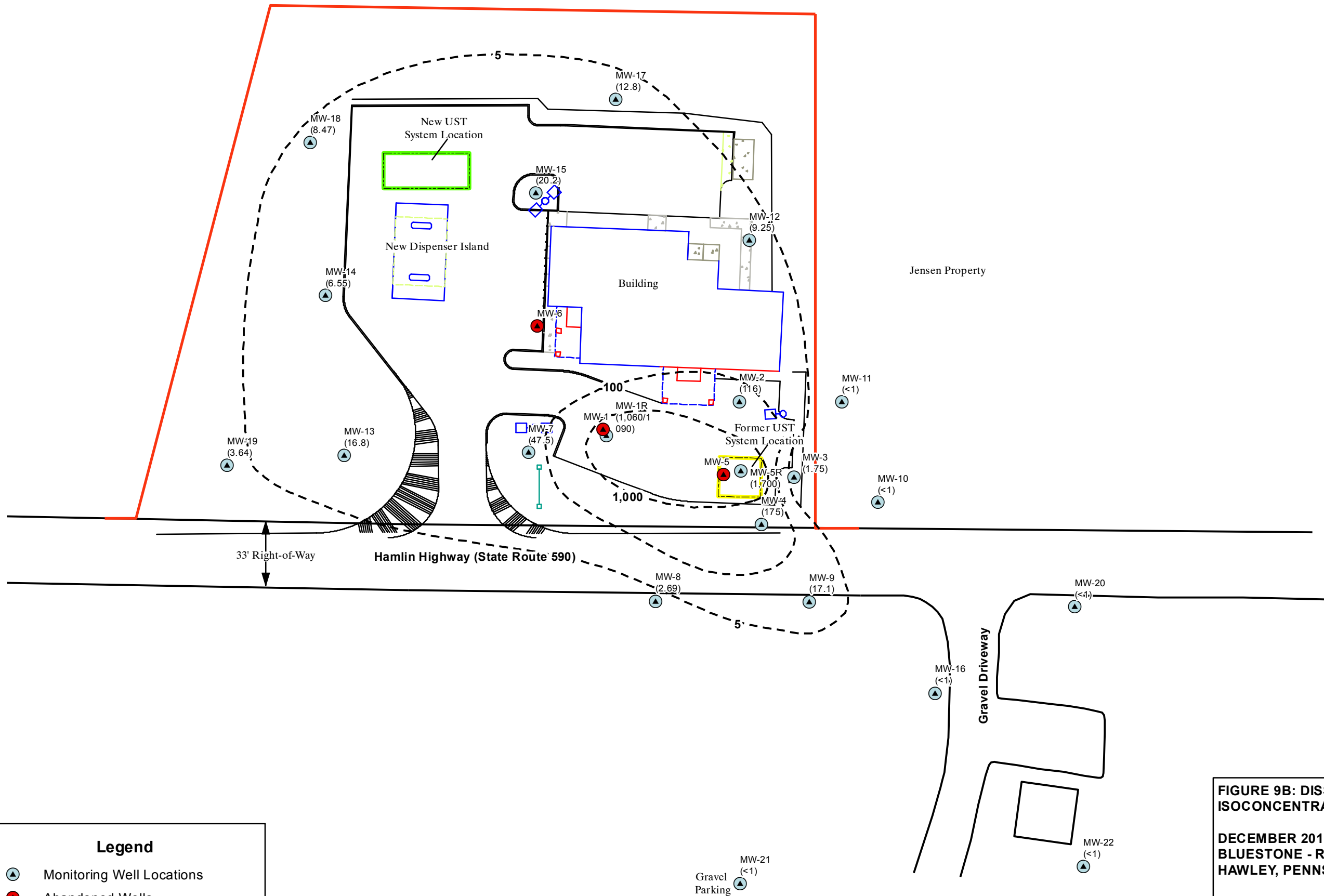


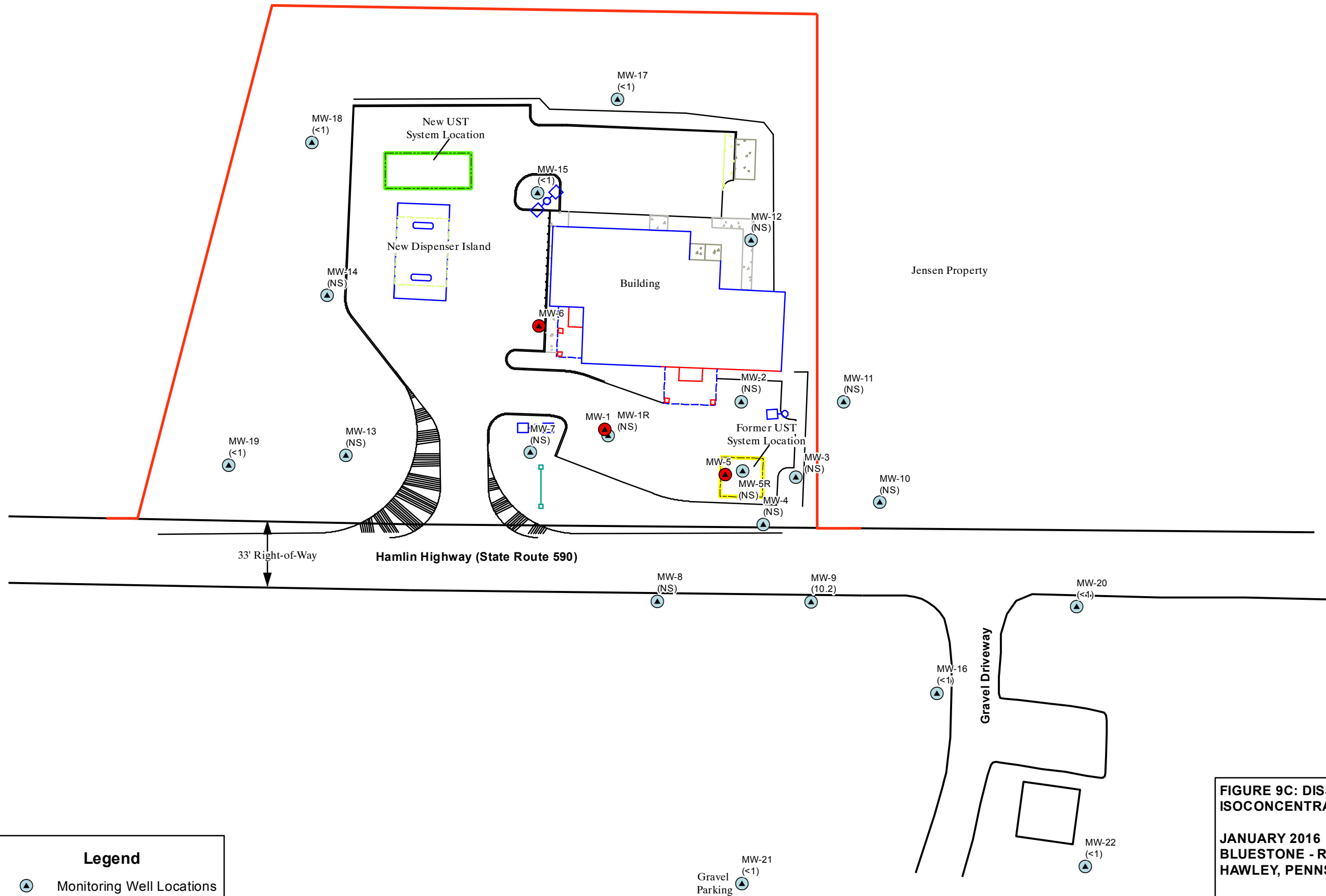
FIGURE 9B: DISSOLVED 1,2,4 TMB
ISOCONCENTRATION MAP

DECEMBER 2015
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01

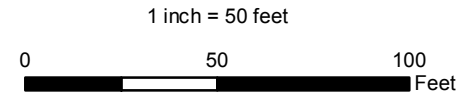


Converse Consultants
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State College, PA 16801



Legend

- Monitoring Well Locations
- Abandoned Wells
- Property Boundary

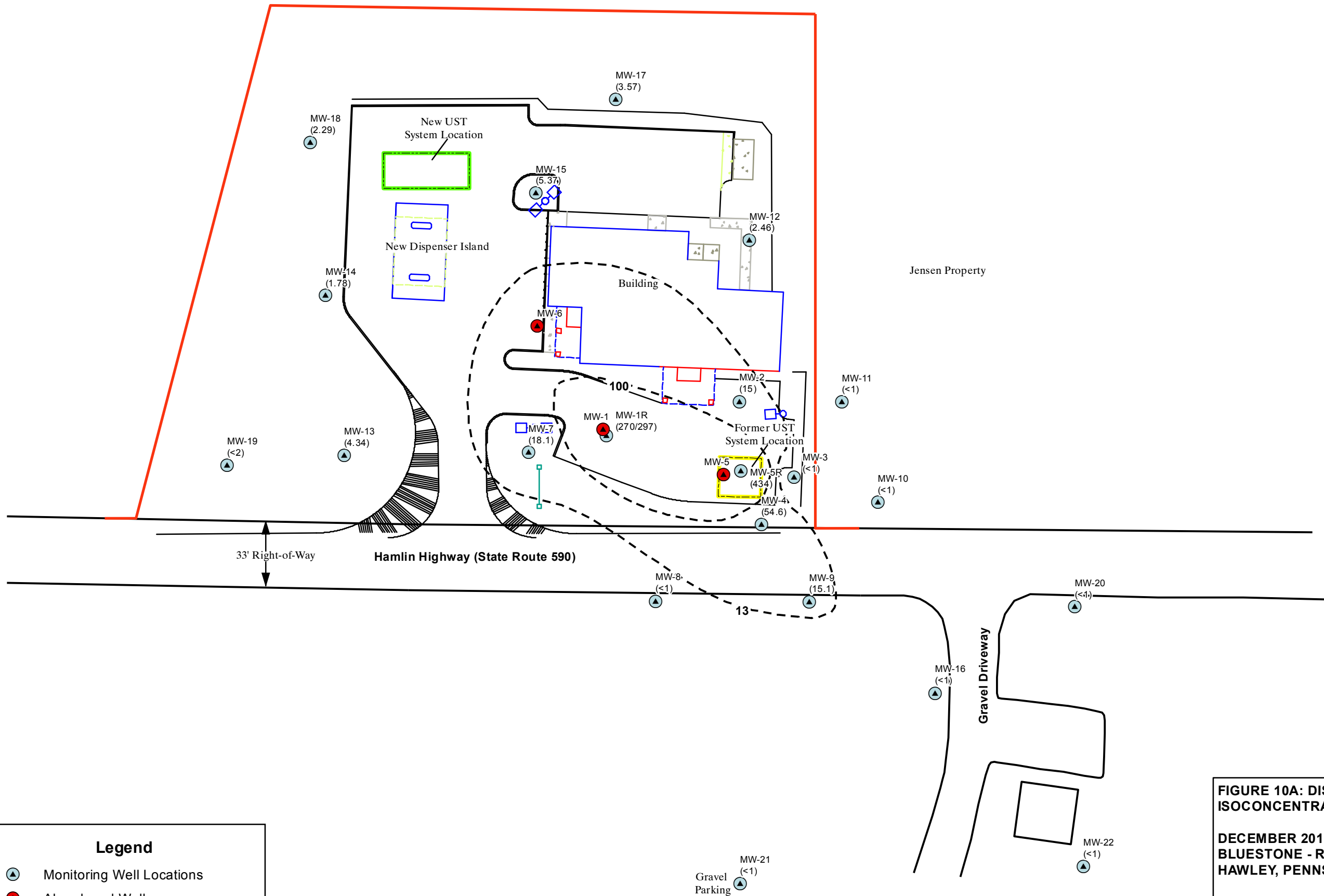


**FIGURE 9C: DISSOLVED 1,2,4 TMB
ISOCONCENTRATION MAP**

**JANUARY 2016
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA**

Converse Project Number 11-17788-01

Converse Consultants
2738 West College Avenue
State College, PA 16801



Legend

- Monitoring Well Locations
- Abandoned Wells
- 1,3,5 TMB Isoconcentration in ug/L
- Property Boundary

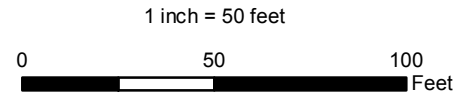


FIGURE 10A: DISSOLVED 1,3,5 TMB ISOCONCENTRATION MAP

DECEMBER 2015
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01

Converse Consultants
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State College, PA 16801

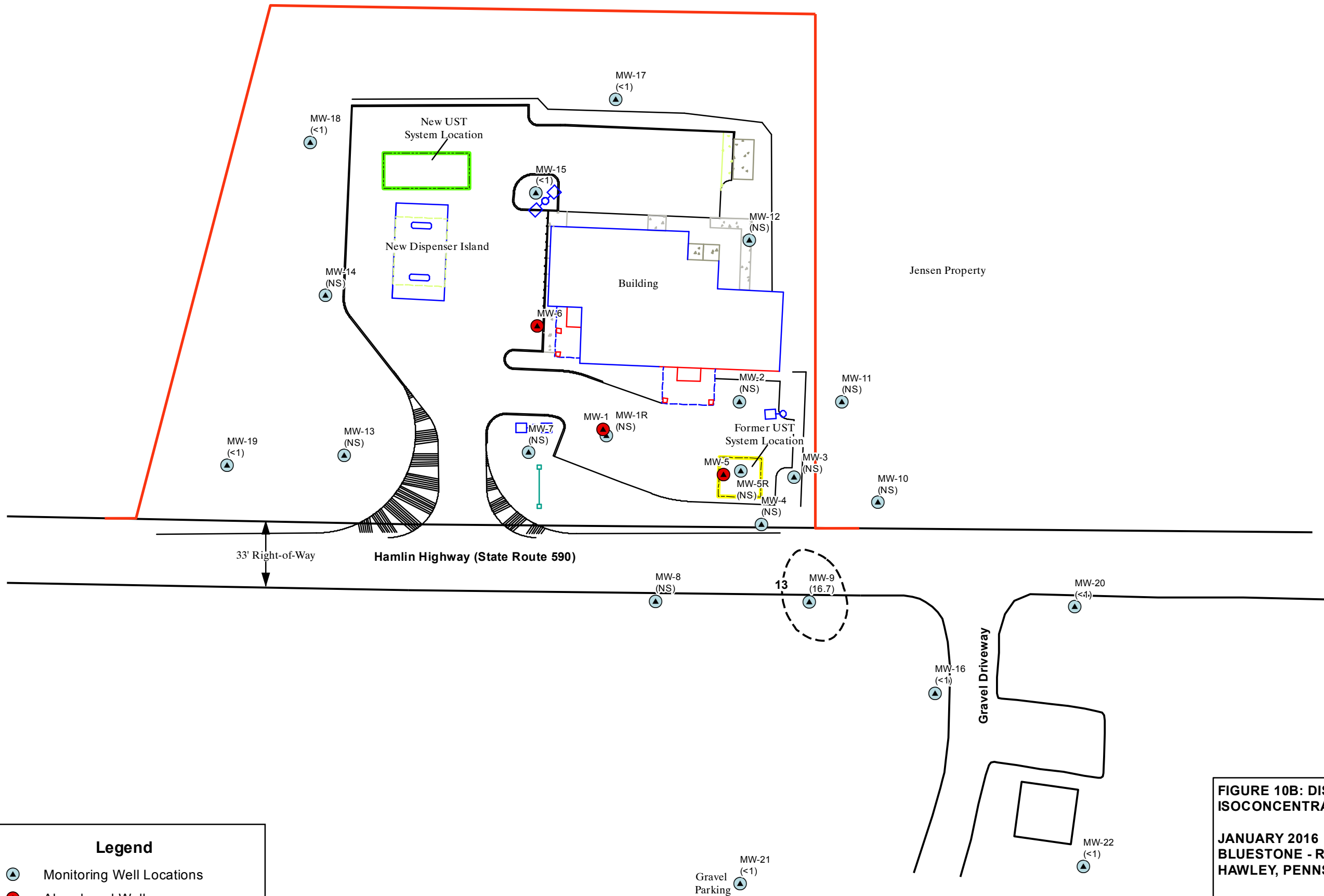


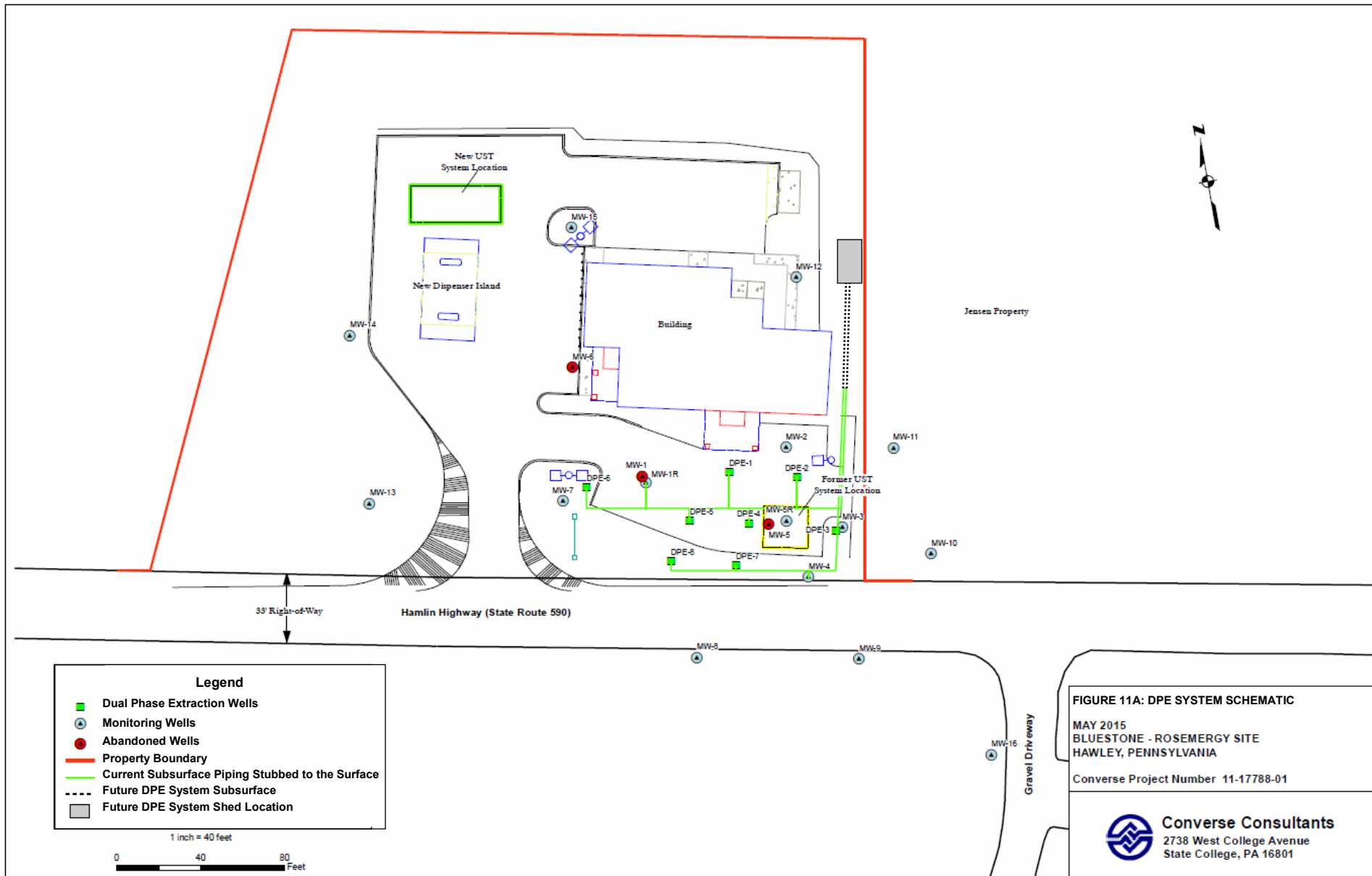
FIGURE 10B: DISSOLVED 1,3,5 TMB
ISOCONCENTRATION MAP

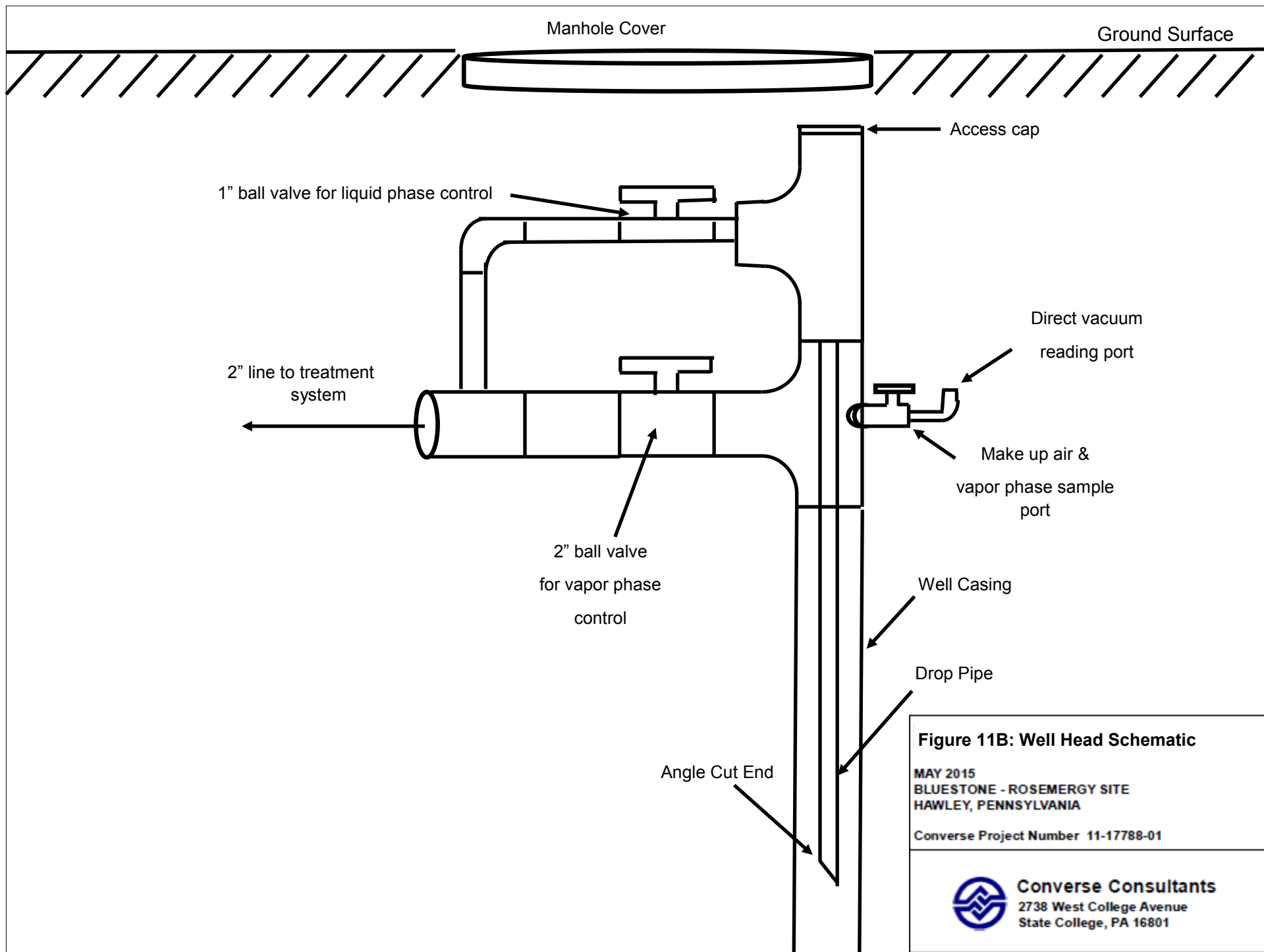
JANUARY 2016
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENNSYLVANIA

Converse Project Number 11-17788-01



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2738 West College Avenue
State College, PA 16801





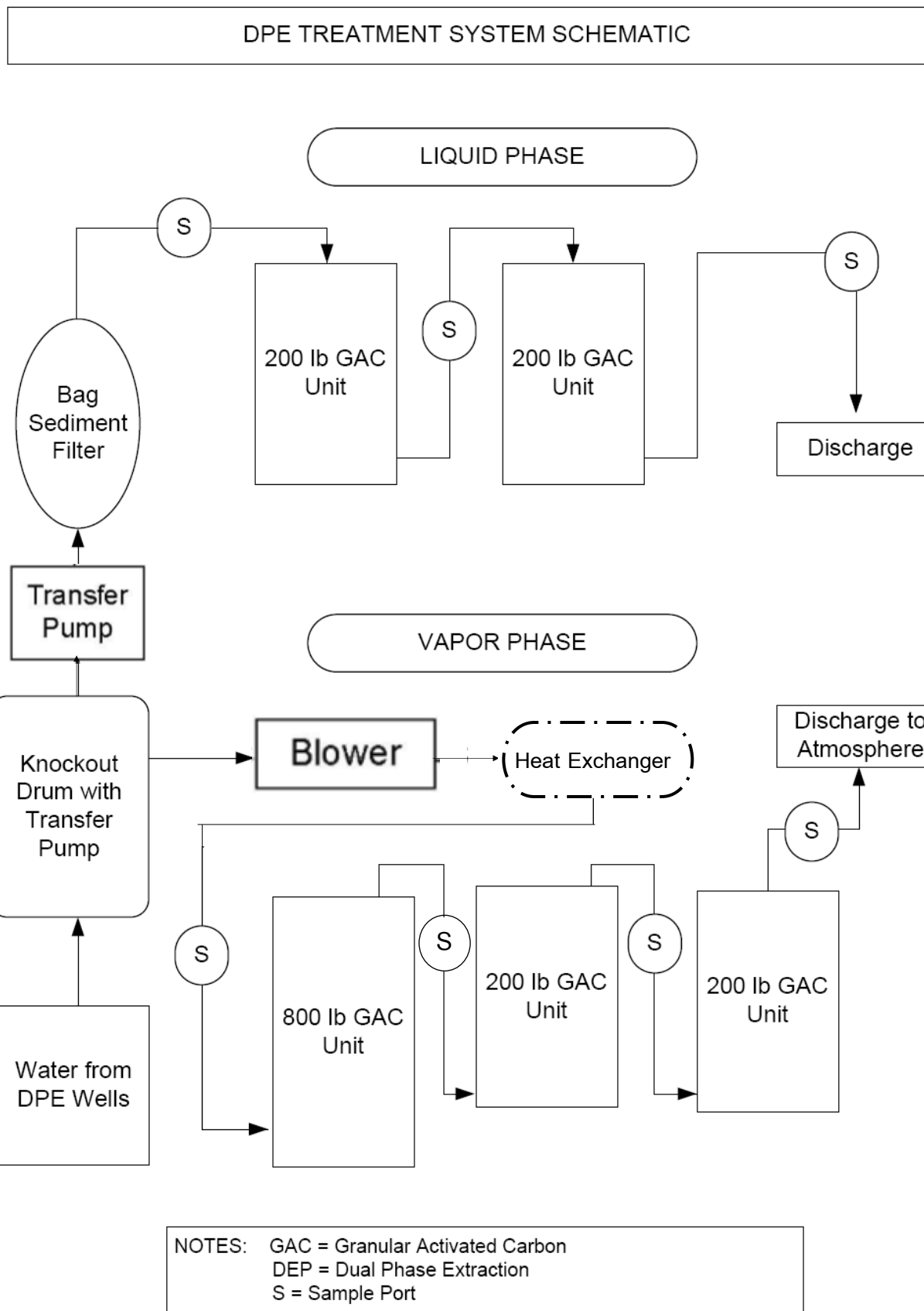


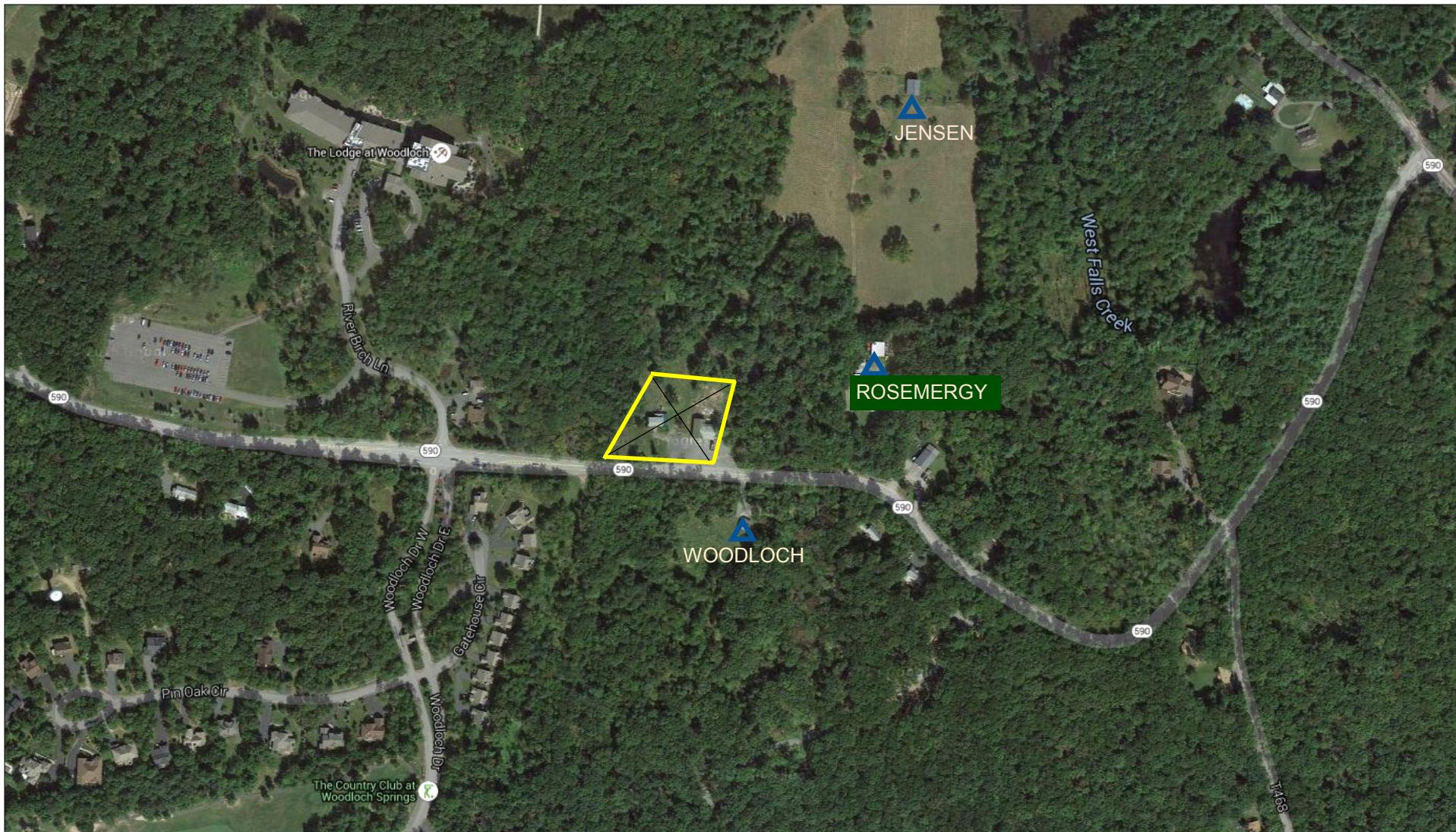
FIGURE 12 - DPE TREATMENT SYSTEM SCHEMATIC

**FORMER ROSEMERGY'S PROPERTY
 LACKAWAXEN TWP., PIKE CO., PENNSYLVANIA**



CONVERSE PROJECT NUMBER 11-17788-03



CONVERSE CONSULTANTS
 2738 West College Avenue
 State College, PA 16801
 (814) 234-3223



Legend

-  Approximate Supply Well Location
-  Site Location

200 ft 

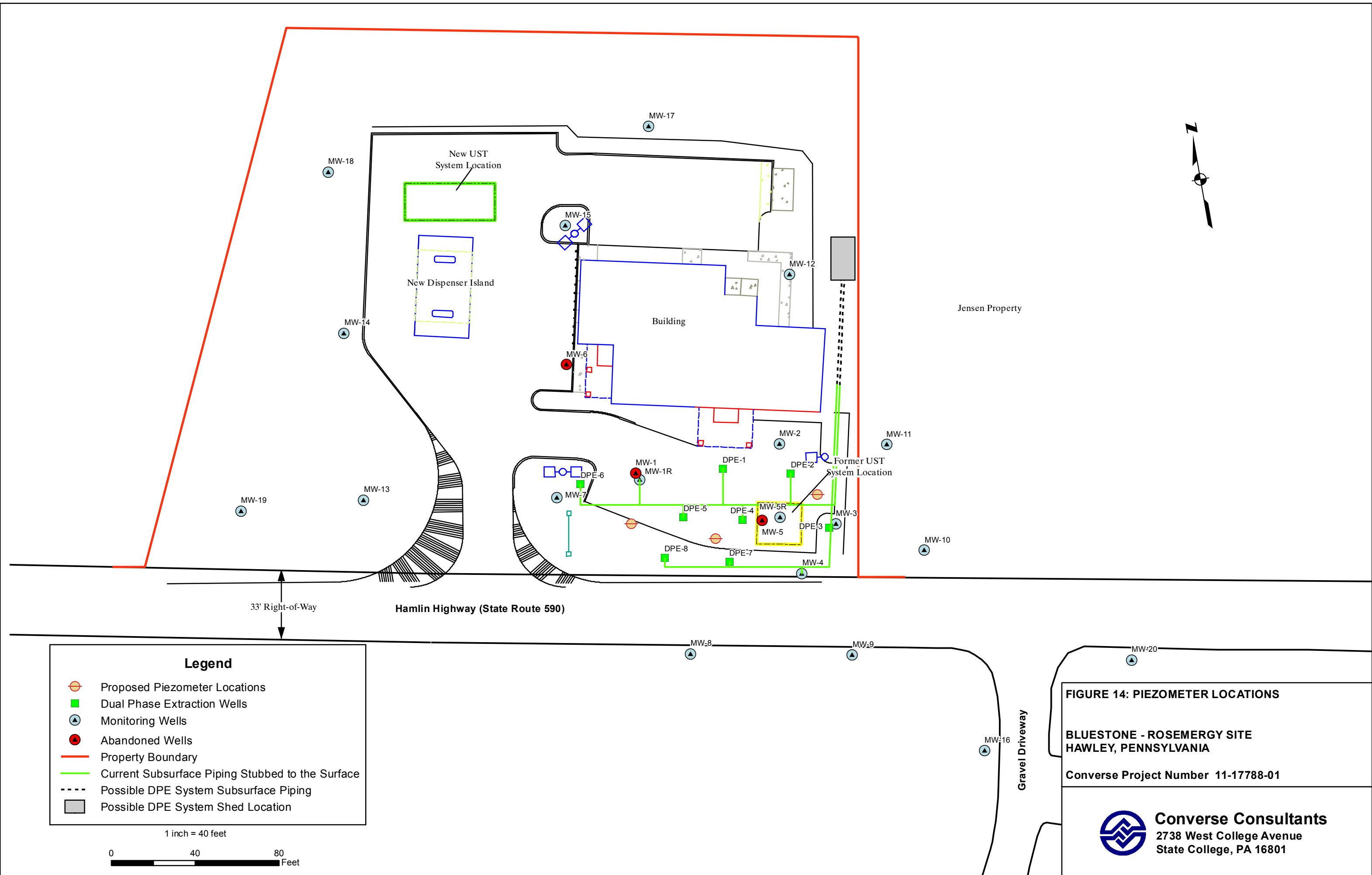
FIGURE 13: ON-LOT SUPPLY WELL LOCATIONS

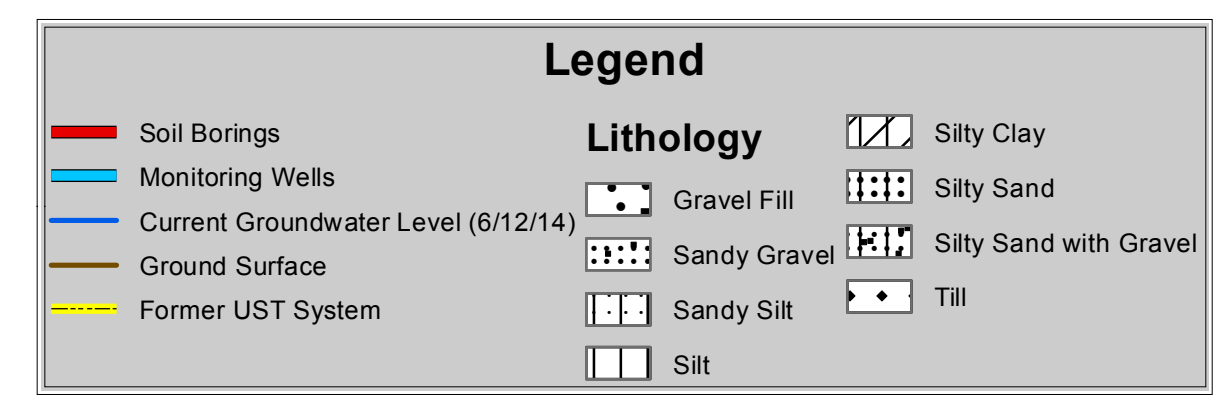
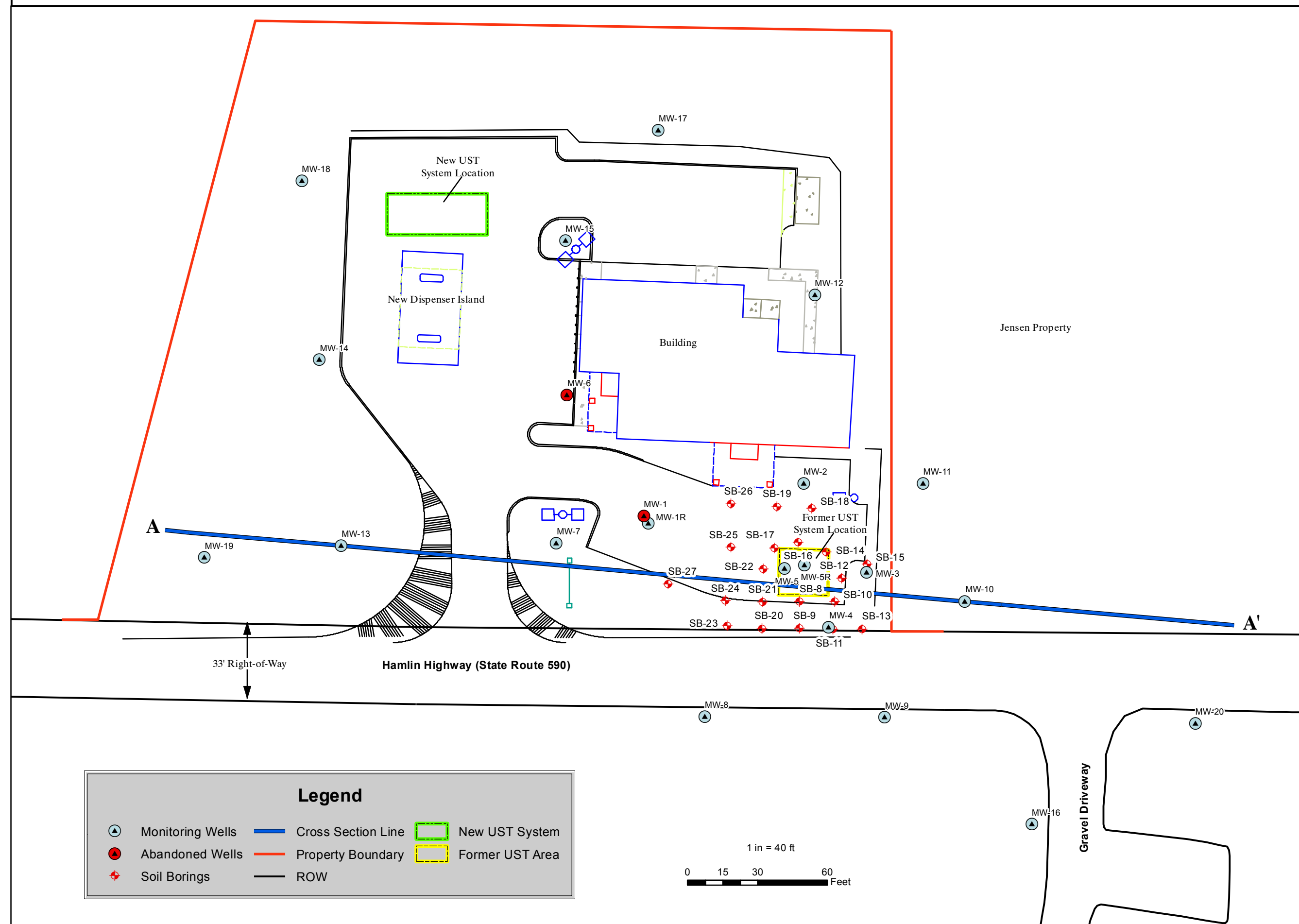
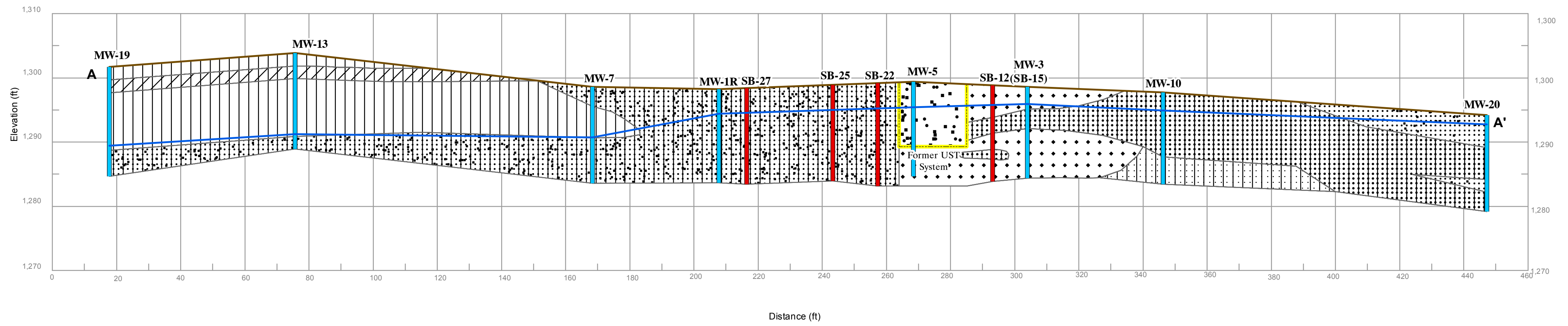
DECEMBER 2014
BLUESTONE - ROSEMERGY SITE
HAWLEY, PENN SYLVANIA

Converse Project Number 11-17788-01



Converse Consultants
2738 West College Avenue
State College, PA 16801





CROSS SECTION A-A'

FORMER ROSEMERGY'S CONVENIENCE STORE

Hamlin Highway
Hawley, Pennsylvania

Plate 1

TABLE 1
GROUNDWATER ELEVATION DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

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
					9/17/14	7.49	1290.76
					12/3/14	7.44	1290.81
					3/25/15	5.00	1293.25
					6/25/15	5.16	1293.09
					8/26/15	7.52	1290.73
					11/12/15	NS	NS
					12/9/15	6.21	1292.04
					1/14/16	5.39	1292.86
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
					9/17/14	5.27	1294.40
					12/3/14	3.31	1296.36
					3/25/15	2.80	1296.87
					6/25/15	3.17	1296.50
					8/26/15	4.50	1295.17
					11/12/15	NS	NS
					12/9/15	3.85	1295.82
					1/14/16	3.17	1296.50
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
					9/17/14	4.14	1294.47
					12/3/14	2.18	1296.43
					3/25/15	2.14	1296.47
					6/25/15	2.15	1296.46
					8/26/15	3.69	1294.92
					11/12/15	2.13	1296.48
					12/9/15	2.67	1295.94
					1/14/16	3.02	1295.59

TABLE 1
GROUNDWATER ELEVATION DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

WELL	TWD	SI	TOCG	TOC	DATE	DTW	GW ELEV
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
					9/17/14	4.20	1294.85
					12/3/14	1.52	1297.53
					3/25/15	1.70	1297.35
					6/26/15	2.34	1296.71
					8/26/15	3.71	1295.34
					11/12/15	1.53	1297.52
					12/9/15	3.40	1295.65
					1/14/16	3.72	1295.33
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
					3/25/15	2.78	1296.58
					6/25/15	3.30	1296.06
					8/26/15	4.50	1294.86
					11/12/15	NS	NS
					12/9/15	3.92	1295.44
					1/14/16	4.11	1295.25
MW-6 (2)	15.30	3-15.3	-0.51	1301.21	5/8/12	5.74	1295.47
					6/17/12	7.98	1293.23
					5/14/13	6.08	1295.13
					11/8/13	AB	AB
MW-7	14.99	5-14.99	-0.57	1298.58	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
					6/12/14	7.73	1290.85
					9/17/14	9.19	1289.39
					12/3/14	9.16	1289.42
					3/25/15	6.60	1291.98
					6/25/15	7.07	1291.51
					8/26/15	9.27	1289.31
					11/12/15	NS	NS
					12/9/15	7.82	1290.76
					1/14/16	5.99	1292.59

TABLE 1
GROUNDWATER ELEVATION DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

WELL	TWD	SI	TOCG	TOC	DATE	DTW	GW ELEV
MW-8	14.62	4-14.62	-0.39	1295.27	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
					6/12/14	2.80	1292.47
					9/17/14	3.06	1292.21
					12/3/14	1.68	1293.59
					3/25/15	2.67	1292.60
					6/25/15	2.43	1292.84
					8/26/15	3.22	1292.05
					11/12/15	NS	NS
					12/9/15	2.46	1292.81
					1/14/16	2.02	1293.25
MW-9	14.65	4-14.62	-0.37	1293.91	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
					6/12/14	1.43	1292.48
					9/17/14	1.89	1292.02
					12/3/14	0.81	1293.10
					3/25/15	0.40	1293.51
					6/25/15	0.62	1293.29
					8/26/15	1.23	1292.68
					11/12/15	0.08	1293.83
					12/9/15	0.50	1293.41
					1/14/16	0.20	1293.71
					1/21/16	0.90	1293.01
MW-10	14.25	5-14.25	-0.41	1297.61	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
					9/17/14	3.84	1293.77
					12/3/14	2.14	1295.47
					3/25/15	2.09	1295.52
					6/26/15	2.60	1295.01
					8/27/15	3.46	1294.15
					11/12/15	NS	NS
					12/9/15	2.83	1294.78
					1/14/16	2.33	1295.28
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
					9/17/14	4.01	1294.34
					12/3/14	3.16	1295.19
					3/25/15	4.00	1294.35
					6/26/15	2.83	1295.52
					8/27/15	4.44	1293.91
					11/12/15	NS	NS
					12/9/15	2.52	1295.83
					1/14/16	2.11	1296.24

TABLE 1
GROUNDWATER ELEVATION DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

WELL	TWD	SI	TOCG	TOC	DATE	DTW	GW ELEV
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
					9/17/14	5.44	1292.00
					12/3/14	3.72	1293.72
					3/25/15	3.80	1293.64
					6/25/15	3.70	1293.74
					8/26/15	5.20	1292.24
					11/12/15	NS	NS
					12/9/15	4.23	1293.21
					1/14/16	3.66	1293.78
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
					9/17/14	11.34	1292.50
					12/3/14	13.77	1290.07
					3/25/15	NS	NS
					6/25/15	11.74	1292.10
					8/26/15	15.65	1288.19
					11/12/15	NS	NS
					12/9/15	12.72	1291.12
					1/14/16	10.69	1293.15
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
					9/17/14	14.52	1290.02
					12/3/14	13.94	1290.60
					3/25/15	11.69	1292.85
					6/25/15	12.08	1292.46
					8/26/15	14.80	1289.74
					11/12/15	NS	NS
					12/9/15	13.30	1291.24
					1/14/16	10.91	1293.63
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
					9/17/14	9.73	1291.41
					12/3/14	9.34	1291.80
					3/25/15	7.37	1293.77
					6/25/15	7.68	1293.46
					8/26/15	9.88	1291.26
					11/12/15	NS	NS
					12/9/15	8.61	1292.53
					1/14/16	7.20	1293.94
					1/21/16	7.34	1293.80

TABLE 1
GROUNDWATER ELEVATION DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

WELL	TWD	SI	TOCG	TOC	DATE	DTW	GW ELEV
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	0.71	1294.53
					6/12/14	1.47	1293.77
					9/17/14	2.52	1292.72
					12/3/14	0.10	1295.14
					3/25/15	NS	NS
					6/25/15	0.82	1294.42
					8/26/15	1.64	1293.60
					11/12/15	NS	NS
					12/9/15	0.75	1294.49
					1/14/16	0.40	1294.84
					1/21/16	0.80	1294.44
MW-17	15.00	3-15	-0.24	1296.68	11/12/15	8.34	1288.34
					12/9/15	5.72	1290.96
					1/14/16	4.85	1291.83
					1/21/16	5.01	1291.67
MW-18	17.95	3-18	-0.31	1300.38	11/12/15	12.19	1288.19
					12/9/15	11.09	1289.29
					1/14/16	9.15	1291.23
					1/21/16	10.65	1289.73
MW-19	16.56	2-17	-0.47	1301.68	11/12/15	13.32	1288.36
					12/9/15	12.22	1289.46
					1/14/16	NM	NM
					1/21/16	11.44	1290.24
MW-20	14.47	3-15	-0.26	1294.17	11/12/15	1.01	1293.16
					12/9/15	1.42	1292.75
					1/14/16	1.31	1292.86
					1/21/16	1.01	1293.16
MW-21	15.00	3-15	-0.29	1293.09	11/12/15	1.04	1292.05
					12/9/15	1.59	1291.50
					1/14/16	2.12	1290.97
					1/21/16	1.66	1291.43
MW-22	14.90	3-15	-0.44	1291.48	11/12/15	0.25	1291.23
					12/9/15	0.79	1290.69
					1/14/16	1.15	1290.33
					1/21/16	0.82	1290.66

(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

TABLE 2
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

Sample ID (Depth)	Statewide Health Standards	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	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	9/17/14	12/3/14	3/25/15	6/25/15	8/26/15	12/9/15
Matrix	Used Aquifers	Water	Water	Water	Water	Water	Water	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)	(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	389	792/594	279/294	265	300	270/297
1,2,4-Trimethylbenzene	15	2,310	2,580	978/1,020	2,100/2,050	NS	1,900/2,100	1,300	1,490	3,040/1,700	981/997	996	1,150	1,060/1,090
Benzene	5	3,930	5,680	6,410/6,620	7,400/7,610	NS	7,740/8,210	7,170	6,330	6290/8,530	4,500/4,600	4,230	6,250	3,480/4,130
Toluene	1,000	13,600	10,900	15,700/16,100	9,960/10,000	NS	12,900/14,500	10,200	5,860	7,980/13,900	5,620/5,830	4,490	6,030	6,820/6,910
Ethylbenzene	700	2,450	2,720	1,540/1,580	2,380/2,350	NS	2,710/2,760	1,770	2,480	4,530/2,740	1,650/1,650	1,390	1,700	1,180/1,310
Xylenes (total)	10,000	11,800	12,200	8,980/9,060	5,550/5,390	NS	14,000/14,400	8640	11,000	8,300/14,200	9,130/9,150	7,170	8,930	7380/8,110
Isopropylbenzene	840	1,210	395	111/405	387/386	NS	336/364	213	233	482/394	158/158	152	175	118/138
Methyl tert-butyl ether	20	68.6	<50	195/269	162/166	NS	<100/<100	82	<100	62/57.4	<50/<50	<50	<50	<50/5.8
Naphthalene	100	881	276	265/693	424/450	NS	194/209	254	319	652/696	107/98.5	239	252	322/313

Sample ID (Depth)	Statewide Health Standards	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	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	9/17/14	12/3/14	3/25/15	6/25/15	8/26/15	12/9/15
Matrix	Used Aquifers	Water	Water	Water	Water	Water	Water	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)	(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	112/195	201	<5	<5	49.5	15
1,2,4-Trimethylbenzene	15	1,820	1,940	1,200	1,110	NS	612	NS	279/585	721	15.8	28.7	244	116
Benzene	5	791	272	273	164	NS	115	NS	50/1,040	1,320	22.8	41.8	310	78
Toluene	1,000	1,520	1,460	958	514	NS	298	NS	3090/3,834	5,720	16.1	43.6	1,130	127
Ethylbenzene	700	765	752	828	634	NS	391	NS	424/831	1,330	18.2	38.2	337	107
Xylenes (total)	10,000	4,060	3,470	1,380	875	NS	586	NS	1070/2,110	3,060	29.6	50.2	868	120
Isopropylbenzene	840	1,020	246	3,227	255	NS	153	NS	97.1/190	187	<5	9.4	59.4	32.6
Methyl tert-butyl ether	20	32.6	<20	<50	<10	NS	<10	NS	<10/27.7	32.7	<5	<5	<5	<5
Naphthalene	100	898	145	240	265	NS	160	NS	159/344	235	14.6	31.2	46.2	37.3

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

TABLE 2 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

Sample ID (Depth)	Statewide Health Standards	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
Sampling Date	Groundwater	5/8/12	6/17/12	11/8/13	12/11/13	2/4/14	3/7/14	6/12/14	9/17/14	12/3/14	3/25/15	6/25/15	8/26/15	11/13/15	12/9/15
Matrix	Used Aquifers	Water	Water	Water	Water	Water	Water	Water	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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS															
1,3,5-Trimethylbenzene	13	<10	<10	<5	<2	NS	NS	<10	22.4	<10	<5	<1	3.43	1.46	<1
1,2,4-Trimethylbenzene	15	<10	<10	5.15	<2	NS	NS	38.5	87.1	10	<5	<1	12.6	6.07	1.75
Benzene	5	273	236	91	88.4	NS	NS	788	476	318	2.4	<1	207	82.4	<1
Toluene	1,000	86.4	<10	<5	<2	NS	NS	62.8	109	<10	<5	<1	12.4	12.7	<1
Ethylbenzene	700	12.2	<10	<5	3.24	NS	NS	56.8	145	11.1	<5	<1	15.1	20	1.11
Xylenes (total)	10,000	49.2	<20	<10	7.24	NS	NS	122	541	<20	<10	<2	38.5	28	<2
Isopropylbenzene	840	<10	11	12.6	6.88	NS	NS	44.4	50.4	17.9	<5	<1	34.8	11.2	<1
Methyl tert-butyl ether	20	768	684	375	348	NS	NS	1,180	1,190	2,560	30.9	<1	636	419	<1
Naphthalene	100	<10	<10	<5	2.5	NS	NS	<10	26	18.3	<5	<1	4.74	1.63	<1

Sample ID (Depth)	Statewide Health Standards	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Sampling Date	Groundwater	5/8/12	6/17/12	11/8/13	12/11/13	2/4/14	3/7/14	6/12/14	9/17/14	12/3/14	3/25/15	6/25/15	8/26/15	11/13/15	12/9/15
Matrix	Used Aquifers	Water	Water	Water	Water	Water	Water	Water	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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS															
1,3,5-Trimethylbenzene	13	594	590	736	703	NS	NS	358	128	5.15	1.16	1.9	131	8.15	54.6
1,2,4-Trimethylbenzene	15	1,400	2,210	2,000	2,750	NS	NS	1,250	445	14.1	1.96	4.89	473	20.1	175
Benzene	5	4,120	2,460	3,040	1,000	NS	NS	301	225	2,130	6.6	4.29	74.7	7.29	35.6
Toluene	1,000	19,700	9,210	2,860	5,550	NS	NS	2,060	864	65.6	10.1	10.6	304	14.9	148
Ethylbenzene	700	1,420	2,000	2,290	2,250	NS	NS	1,050	452	87	2.92	4.15	390	8.42	139
Xylenes (total)	10,000	9,440	10,400	5,540	10,900	NS	NS	4,720	2,070	62	12.5	20.7	1,650	41.1	623
Isopropylbenzene	840	728	228	433	387	NS	NS	178	65.6	43.9	<1	<1	88.4	2.35	22
Methyl tert-butyl ether	20	14.8	<50	56.9	<10	NS	NS	<20	<20	10.7	<1	<1	<1	<1	<5
Naphthalene	100	1,090	244	604	404	NS	NS	205	73.6	20.4	<1	<1	94.4	1.89	17.7

NS - Not Sampled

All concentrations in micrograms per liter (ug/L)

WD - Well Destroyed

TABLE 2 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

Sample ID (Depth)	Statewide Health Standards	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5R	MW-5R	MW-5R	MW-5R
Sampling Date	Groundwater	5/8/12	6/17/12	11/8/13	12/11/13	2/4/14	3/7/14	6/12/14	3/25/15	6/25/15	8/26/15	12/9/15
Matrix	Used Aquifers	Water	Water	Water	Water	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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS												
1,3,5-Trimethylbenzene	13	155	14.7	<10	<2	NS	<2	WD	437	388/370	430	434
1,2,4-Trimethylbenzene	15	427	36.2	13.6	<2	NS	<2	WD	1,680	1,510/2,460	1,670	1,700
Benzene	5	14.4	4.3	89.5	2.44	NS	<2	WD	3,960	5,450/11,200	6,210	4,690
Toluene	1,000	116	14.1	<10	<2	NS	<2	WD	13,600	16,600/33,700	17,500	18,200
Ethylbenzene	700	107	14.6	80.7	<2	NS	<2	WD	2,740	2,430/4,420	3,110	2,500
Xylenes (total)	10,000	403	38.7	<20	<4	NS	<4	WD	9,460	10,900/20,800	14,100	12,200
Isopropylbenzene	840	51.8	<10	25.3	<2	NS	<2	WD	197	1	186	170
Methyl tert-butyl ether	20	<5	<10	12.7	2.82	NS	<2	WD	33.5	<50/34.6	<50	<50
Naphthalene	100	94.4	<10	<10	<2	NS	<2	WD	331	376/436	316	443

Sample ID (Depth)	Statewide Health Standards	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)

WD - Well Destroyed

TABLE 2 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

Sample ID (Depth)	Statewide Health Standards	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	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	9/17/14	12/3/14	3/25/15	6/25/15	8/26/2015	12/9/2015
Matrix	Used Aquifers	Water	Water	Water	Water	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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS												
1,3,5-Trimethylbenzene	13	8.5	12.1	NS	NS	<20	56.2	158	<25	<25	91.5/85.8	18.1
1,2,4-Trimethylbenzene	15	5.22	6.44	NS	NS	40.4	153	300	50	60.5	238/229	47.5
Benzene	5	7,480	5,100	NS	NS	390	2,200	6,120	884	582	4,780/4,540	917
Toluene	1,000	62.7	54.8	NS	NS	<20	66.4	296	300	193	279/275	157
Ethylbenzene	700	34.3	30.9	NS	NS	<20	299	800	120	90.5	436/438	96.6
Xylenes (total)	10,000	31.8	33.3	NS	NS	96.8	436	1,120	293	314	876/849	222
Isopropylbenzene	840	43	54.9	NS	NS	<20	51.8	167	<25	<25	85.2/90.5	23
Methyl tert-butyl ether	20	546	449	NS	NS	<20	48.4	192	<25	<25	75/73.1	15.5
Naphthalene	100	43.7	78.9	NS	NS	<20	65.4	222	<25	<25	134/127	33.2

Sample ID (Depth)	Statewide Health Standards	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	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	9/17/14	12/3/14	3/25/15	6/25/15	8/26/15	12/9/15
Matrix	Used Aquifers	Water	Water	Water	Water	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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS												
1,3,5-Trimethylbenzene	13	<2	<1	NS	<1	<1	5.16	1.3	1.55	1.54	2.22	<1
1,2,4-Trimethylbenzene	15	<2	<1	NS	<1	<1	19.4	4.05	5.42	5.52	7.51	2.69
Benzene	5	<2	<1	NS	<1	<1	8.76	2.1	14.7	7.09	10.1	1.55
Toluene	1,000	<2	<1	NS	<1	<1	13	3.62	35.2	18.7	22.1	8.1
Ethylbenzene	700	<2	<1	NS	<1	<1	18.8	3.56	7.47	5.14	6.9	2.05
Xylenes (total)	10,000	<4	<2	NS	<2	<2	90.5	17.3	37.2	26.5	34.3	11.3
Isopropylbenzene	840	<2	<1	NS	<1	<1	2.57	<1	<1	<1	<1	<1
Methyl tert-butyl ether	20	2.7	<1	NS	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	100	<2	<1	NS	<1	<1	3.64	1.17	1	<1	<1	<1

NS - Not Sampled

All concentrations in micrograms per liter (ug/L)

WD - Well Destroyed

TABLE 2 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

Sample ID (Depth)	Statewide Health Standards	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9
Sampling Date	Groundwater	11/8/13	12/11/13	2/4/14	3/7/14	6/12/14	9/17/14	12/3/14	3/25/15	6/25/15	8/26/15	11/13/15	12/9/15	1/20/16
Matrix	Used Aquifers	Water	Water	Water	Water	Water	Water	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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS														
1,3,5-Trimethylbenzene	13	<2	<1	NS	<1	<1	8.68	7.7	<10	40.6	23.9	14.6	15.1	16.7
1,2,4-Trimethylbenzene	15	<2	<1	NS	<1	<1	36.1	<5	<10	65.4	24.2	12	17.1	10.2
Benzene	5	13	16.9	NS	96.1	58.3	82.9	19.2	853	1,050	1,590	1,210	1,510	1,600
Toluene	1,000	<2	<1	NS	<1	2.2	39.8	<5	80.9	178.0	113	112	116	97
Ethylbenzene	700	<2	<1	NS	3.2	2.0	41	9.7	66	152	175	251	265	244
Xylenes (total)	10,000	<4	<2	NS	<2	<2	165	17.4	66	298	153	73	98.6	67.1
Isopropylbenzene	840	<2	<1	NS	5.5	5.7	9.9	<5	38.9	82.8	77.3	92.5	97.1	89.5
Methyl tert-butyl ether	20	8	2.9	NS	9.4	5.9	5.1	<5	11.3	<10	<10	<10	<10	<10
Naphthalene	100	<2	<1	NS	<1	<1	8.1	<5	14.7	69.2	36.2	61	84.1	78.6

Sample ID (Depth)	Statewide Health Standards	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10
Sampling Date	Groundwater	11/8/13	12/11/13	2/4/14	3/7/14	6/12/14	9/17/14	12/3/14	3/25/15	6/25/15	8/27/15	12/9/15	
Matrix	Used Aquifers	Water	Water	Water	Water	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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
VOLATILE ORGANIC COMPOUNDS													
1,3,5-Trimethylbenzene	13	WNI	WNI	<2	<1	<1	<1	1.7	<1	1.09	1.4	<1	
1,2,4-Trimethylbenzene	15	WNI	WNI	<2	<1	<1	<1	4.8	2.6	5.0	4.5	<1	
Benzene	5	WNI	WNI	<0.24	<1	<1	<1	13.4	13.9	49.7	26.9	33.1	
Toluene	1,000	WNI	WNI	<2	<1	<1	<1	14.2	14.6	10.0	5.7	<1	
Ethylbenzene	700	WNI	WNI	<2	<1	<1	<1	7.2	3.7	3.2	3.4	<1	
Xylenes (total)	10,000	WNI	WNI	<4	<2	<2	<2	32	17	16	15.4	<2	
Isopropylbenzene	840	WNI	WNI	<2	<1	<1	<1	1.2	<1	6.1	3.5	4.9	
Methyl tert-butyl ether	20	WNI	WNI	<2	<1	<1	11.5	12.6	24	116	106	106	
Naphthalene	100	WNI	WNI	<2	<1	<1	<1	1.0	<1	<1	<1	<1	

NS - Not Sampled

All concentrations in micrograms per liter (ug/L)

WD - Well Destroyed

TABLE 2 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

Sample ID (Depth)	Statewide Health Standards	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
Sampling Date	Groundwater	11/8/13	12/11/13	2/4/14	3/7/14	6/12/14	9/17/14	12/3/14	3/25/15	6/25/15	8/27/15	12/10/15
Matrix	Used Aquifers	Water	Water	Water	Water	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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS												
1,3,5-Trimethylbenzene	13	WNI	WNI	<2	<1	<1	<1	2.6	1.8	1.31	1.84	<1
1,2,4-Trimethylbenzene	15	WNI	WNI	<2	<1	<1	<1	9.8	6.3	4.01	5.99	<1
Benzene	5	WNI	WNI	0.3	<1	<1	<1	19.3	32.1	5.65	3.83	<1
Toluene	1,000	WNI	WNI	<2	<1	<1	<1	20.3	50.5	11.8	6.7	<1
Ethylbenzene	700	WNI	WNI	<2	<1	<1	<1	10	12	3.93	4.28	<1
Xylenes (total)	10,000	WNI	WNI	<4	<2	<2	<2	47	53	18.4	18.9	<2
Isopropylbenzene	840	WNI	WNI	<2	<1	<1	<1	1.56	1.47	<1	1.26	<1
Methyl tert-butyl ether	20	WNI	WNI	<2	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	100	WNI	WNI	<2	<1	<1	<1	2.21	1.52	<1	1.45	<1

Sample ID (Depth)	Statewide Health Standards	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
Sampling Date	Groundwater	11/8/13	12/11/13	2/4/14	3/7/14	6/12/14	9/17/14	12/3/14	3/25/15	6/25/15	8/26/15	12/10/15
Matrix	Used Aquifers	Water	Water	Water	Water	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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS												
1,3,5-Trimethylbenzene	13	<2	<1	NS	<1	<1	6.74	<1	2.32	4.65	4.46	2.46
1,2,4-Trimethylbenzene	15	<2	<1	NS	<1	<1	19.9	<1	8.32	17.7	15.7	9.25
Benzene	5	2.12	<1	NS	<1	1.43	20.4	<1	26.2	21.2	21.6	10.2
Toluene	1,000	6.64	<1	NS	<1	3.12	24.9	<1	59.8	53.6	42.8	36.4
Ethylbenzene	700	<2	<1	NS	<1	1.48	18.9	<1	12.1	16.8	14.5	7.26
Xylenes (total)	10,000	4.1	<2	NS	<2	6.35	82.6	<2	60	86.5	66.5	40.8
Isopropylbenzene	840	<2	<1	NS	<1	<1	3.45	<1	1.08	2.07	2.18	<1
Methyl tert-butyl ether	20	<2	<1	NS	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	100	<2	<1	NS	<1	<1	1.26	<1	1.63	3.39	4.04	1.66

NS - Not Sampled

All concentrations in micrograms per liter (ug/L)

WD - Well Destroyed

TABLE 2 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

Sample ID (Depth)	Statewide Health Standards	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13
Sampling Date	Groundwater	4/29/14	6/12/14	9/17/14	12/3/14	3/25/15	6/25/15	8/26/15	12/9/15
Matrix	Used Aquifers	Water	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)	(ug/L)
VOLATILE ORGANIC COMPOUNDS									
1,3,5-Trimethylbenzene	13	<1	<1	<1	4.9	NS	1.93	NS	4.34
1,2,4-Trimethylbenzene	15	<1	<1	<1	18.9	NS	6.84	NS	16.8
Benzene	5	<1	<1	<1	108	NS	10.3	NS	15.7
Toluene	1,000	66.1	102	1.81	120	NS	24.8	NS	91
Ethylbenzene	700	<1	<1	<1	30.5	NS	6.67	NS	18
Xylenes (total)	10,000	<2	<2	3.61	133	NS	33.9	NS	98.3
Isopropylbenzene	840	<1	<1	<1	3.32	NS	<1	NS	1.68
Methyl tert-butyl ether	20	<1	<1	<1	<1	NS	<1	NS	<1
Naphthalene	100	<1	<1	<1	5.95	NS	1.19	NS	3.68

Sample ID (Depth)	Statewide Health Standards	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14
Sampling Date	Groundwater	4/29/14	6/12/14	9/17/14	12/3/14	3/25/15	6/25/15	8/26/15	12/9/15
Matrix	Used Aquifers	Water	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)	(ug/L)
VOLATILE ORGANIC COMPOUNDS									
1,3,5-Trimethylbenzene	13	<1	<1	<1	7.15	6.21	2.52	2.93	1.78
1,2,4-Trimethylbenzene	15	<1	<1	<1	25.6	21.3	9.02	9.09	6.55
Benzene	5	<1	<1	<1	71.6	62.9	13.2	17.4	5.2
Toluene	1,000	<1	<1	<1	65.1	95.6	30.4	35.9	23
Ethylbenzene	700	<1	<1	<1	30.8	28.2	8.21	11.20	5.14
Xylenes (total)	10,000	<2	<2	2.19	137	147	43.4	50.6	28.6
Isopropylbenzene	840	<1	<1	<1	4.43	2.93	1.03	2	<1
Methyl tert-butyl ether	20	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	100	<1	<1	<1	6.96	3.73	1.52	2.74	1.24

NS - Not Sampled

All concentrations in micrograms per liter (ug/L)

WD - Well Destroyed

TABLE 2 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

Sample ID (Depth)	Statewide Health Standards	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15
Sampling Date	Groundwater	4/29/14	6/12/14	9/17/14	12/3/14	3/25/15	6/25/15	8/26/15	12/9/15	1/20/16
Matrix	Used Aquifers	Water	Water	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)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS										
1,3,5-Trimethylbenzene	13	<1	<1	<1	7.7	3.06	5.86	7.29	5.37	<1
1,2,4-Trimethylbenzene	15	<1	<1	<1	25.7	10.6	21.8	25.3	20.2	<1
Benzene	5	<1	<1	<1	71	29.1	27.7	38.3	22.8	<1
Toluene	1,000	<1	2.35	<1	57.2	61.2	63.2	62.4	70.2	<1
Ethylbenzene	700	<1	<1	<1	31	13.4	20.6	23.4	15.2	<1
Xylenes (total)	10,000	<2	2.94	4.25	135	68	105	105	87.9	<2
Isopropylbenzene	840	<1	<1	<1	4.7	1.23	2.70	3.86	1.92	<1
Methyl tert-butyl ether	20	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	100	<1	<1	<1	7.06	1.91	4.5	7.31	3.98	<1

Sample ID (Depth)	Statewide Health Standards	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
Sampling Date	Groundwater	4/29/14	6/12/14	9/17/14	12/3/14	3/25/15	6/25/15	8/26/15	12/9/15	1/20/16
Matrix	Used Aquifers	Water	Water	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)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS										
1,3,5-Trimethylbenzene	13	<1	<1	7	1.7	NS	1.67	1.67	<1	<1
1,2,4-Trimethylbenzene	15	<1	<1	26.9	4.84	NS	4.82	5.3	<1	<1
Benzene	5	<1	<1	19.6	11.6	NS	8.14	7.9	<1	<1
Toluene	1,000	<1	<1	26.4	14.6	NS	13.8	11.6	<1	<1
Ethylbenzene	700	<1	<1	32.4	7.72	NS	4.79	5.4	<1	<1
Xylenes (total)	10,000	<2	<2	138	34.1	NS	21.8	21	<2	<2
Isopropylbenzene	840	<1	<1	4.18	1.1	NS	1.12	1.41	<1	<1
Methyl tert-butyl ether	20	9.18	3.02/3.42	29.9	19.5	NS	14.8	12	6.7	8.1
Naphthalene	100	<1	<1	1.81	1.16	NS	1.13	1.9	<1	<1

NS - Not Sampled

All concentrations in micrograms per liter (ug/L)

WD - Well Destroyed

TABLE 2 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

Sample ID (Depth)	Statewide Health Standards	MW-17	MW-17	MW-17
Sampling Date	Groundwater	11/12/15	12/9/15	1/20/16
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	3.6	<1
1,2,4-Trimethylbenzene	15	<1	12.8	<1
Benzene	5	<1	14.5	<1
Toluene	1,000	<1	46.8	<1
Ethylbenzene	700	<2	9.9	<1
Xylenes (total)	10,000	<1	56	<2
Isopropylbenzene	840	<1	1.2	<1
Methyl tert-butyl ether	20	<1	<1	<1
Naphthalene	100	<1	2.2	<1

Sample ID (Depth)	Statewide Health Standards	MW-18	MW-18	MW-18
Sampling Date	Groundwater	11/12/15	12/9/15	1/20/16
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	2.3	<1
1,2,4-Trimethylbenzene	15	<1	8.5	<1
Benzene	5	<1	7.3	<1
Toluene	1,000	<1	29.5	<1
Ethylbenzene	700	<2	6.6	<1
Xylenes (total)	10,000	<1	37.3	<2
Isopropylbenzene	840	<1	<1	<1
Methyl tert-butyl ether	20	<1	<1	<1
Naphthalene	100	<1	1.6	<1

NS - Not Sampled

All concentrations in micrograms per liter (ug/L)

WD - Well Destroyed

TABLE 2 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

Sample ID (Depth)	Statewide Health Standards	MW-19	MW-19	MW-19
Sampling Date	Groundwater	11/12/15	12/9/15	1/20/16
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	<2	<1
1,2,4-Trimethylbenzene	15	<1	3.6	<1
Benzene	5	<1	3.0	<1
Toluene	1,000	<1	12.1	<1
Ethylbenzene	700	<2	2.8	<1
Xylenes (total)	10,000	<1	15.9	<2
Isopropylbenzene	840	<1	<2	<1
Methyl tert-butyl ether	20	<1	<2	<1
Naphthalene	100	<1	<2	<1

Sample ID (Depth)	Statewide Health Standards	MW-20	MW-20	MW-20
Sampling Date	Groundwater	11/12/15	12/10/15	1/20/16
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	<1
1,2,4-Trimethylbenzene	15	<1	<1	<1
Benzene	5	<1	<1	<1
Toluene	1,000	<1	<1	<1
Ethylbenzene	700	<1	<1	<1
Xylenes (total)	10,000	<2	<2	<2
Isopropylbenzene	840	<1	<1	<1
Methyl tert-butyl ether	20	<1	<1	<1
Naphthalene	100	<1	<1	<1

NS - Not Sampled

All concentrations in micrograms per liter (ug/L)

WD - Well Destroyed

TABLE 2 (Continued)
GROUNDWATER ANALYTICAL DATA
FORMER ROSEMERGY'S CONVENIENT STORE
1623 ROUTE 590
HAWLEY, PA
11-17788-03

Sample ID (Depth)	Statewide Health Standards	MW-21	MW-21	MW-21
Sampling Date	Groundwater	11/12/15	12/10/15	1/20/16
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	<1
1,2,4-Trimethylbenzene	15	<1	<1	<1
Benzene	5	<1	<1	<1
Toluene	1,000	<1	<1	<1
Ethylbenzene	700	<1	<1	<1
Xylenes (total)	10,000	<2	<2	<2
Isopropylbenzene	840	<1	<1	<1
Methyl tert-butyl ether	20	<1	<1	<1
Naphthalene	100	<1	<1	<1

Sample ID (Depth)	Statewide Health Standards	MW-22	MW-22	MW-22
Sampling Date	Groundwater	11/12/15	12/10/15	1/20/16
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	<1
1,2,4-Trimethylbenzene	15	<1	<1	<1
Benzene	5	<1	<1	<1
Toluene	1,000	<1	<1	<1
Ethylbenzene	700	<1	<1	<1
Xylenes (total)	10,000	<2	<2	<2
Isopropylbenzene	840	<1	<1	<1
Methyl tert-butyl ether	20	<1	<1	<1
Naphthalene	100	<1	<1	<1

NS - Not Sampled

All concentrations in micrograms per liter (ug/L)

WD - Well Destroyed

TABLE 3
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	<.751	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	<.751	<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 4
SOIL GAS SAMPLE RESULTS
FORMER ROSEMERGY'S CONVENIENCE STORE
HAWLEY, PA
11-17788-02

PARAMETER	RMSC _{SG}	NRMSC _{SG}	RL		SV-1	SV-2	SV-3	VP-1	VP-2	VP-3
				Date	2/4/14	2/4/14	2/4/14	3/7/14	3/7/14	3/7/14
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.

NA: Not Analyzed.

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.

TABLE 5
INDOOR AIR SAMPLE RESULTS
FORMER ROSEMERGY'S CONVENIENCE STORE
HAWLEY, PA
11-17788-02

PARAMETER	RMSC _{IA}	NRMSC _{IA}	RL	Inside The Residence		Outside The Residence	
				IA-1 6/18/14	IA-1 12/16/14	IA-2 6/18/14	IA-2 12/16/14
BENZENE	0.0027	0.01	0.00011	0.0011	0.00085	0.00088	0.0011
CUMENE (Isopropylbenzene)	0.540	1.1	0.00015	<0.00065	<0.00065	<0.00065	<0.00065
ETHYLBENZENE	0.019	0.073	0.012	0.0024	0.00024	0.00051	0.0012
METHYL TERT-BUTYL ETHER	0.0810	0.31	0.00013	0.007	<0.0013	<0.0013	0.00055
NAPHTHALENE	0.0042	0.0088	0.00018	<0.00018	<0.00018	<0.00018	<0.00018
TOLUENE	0.56	1.2	0.0038	0.017	0.0024	0.0036	0.021
1,2,4-TRIMETHYLBENZENE	0.0083	0.017	0.0049	0.0015	<0.00017	0.00042	0.00058
1,3,5-TRIMETHYLBENZENE	0.0083	0.017	0.00017	0.0005	<0.00017	<0.00017	0.0002
m & p-XYLENE	0.14	0.3	0.0087	0.008	0.00052	0.0018	0.0023
o-XYLENE	0.14	0.3	0.0043	0.0022	0.00022	0.00054	0.00083

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.

TABLE 6
ON-LOT SUPPLY WELL ANALYTICAL DATA
FORMER ROSEMERGY'S STORE/GARAGE
1623 ROUTE 590
HAWLEY, PA
11-17788-01

Sample ID (Depth)	MCL	SW-8	SW-8	SW-12	SW-12
Sampling Date		12/11/13	2/4/14	12/11/13	2/4/14
Matrix		Water	Water	Water	Water
Units		(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS					
1,3,5-Trimethylbenzene	NS	<1	<1	<1	<1
1,2,4-Trimethylbenzene	NS	<1	<1	<1	<1
Benzene	5	<1	<1	<1	<1
Toluene	1,000	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1
Xylenes (total)	10,000	<2	<2	<2	<2
Isopropylbenzene	NS	<1	<1	<1	<1
Methyl tert-butyl ether	NS	<1	<1	<1	<1
Naphthalene	NS	<1	<1	<1	<1

USEPA MCL - Published EPA Drinking Water Standard

NS - No published federal drinking water standard.

SW-8 Rosemergy residence water sample

SW-12 Woodloch property water sample



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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

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
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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
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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
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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: 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	

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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: 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
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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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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
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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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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

∞ FIELD REP. OK

QUESTIONS

DATE 2-4-14

FIRM RESPONSIBLE FOR SAMPLING
Converse Consultants

WEATHER Sunny 20°

Converse Consultants
2738 West College Avenue

PROJECT NO. 11-17788-02

PROJECT NO. 11-17788-02

PROJECT NAME Research ATTENTION DHS or ORC

ATTENTION Dis a OBC



FIRM RESPONSIBLE FOR SAMPLING
Converse Consultants
2738 West College Avenue
State College, Pennsylvania 16801
814-234-3223
Fax 814-234-3255

42

1

DISTRIBUTION: WHITE—WITH SHIPMENT TO LAB. CANARY—CONVERSE. PINK—RETAINED BY FIELD REP.

Chain of Custody Receiving Document

Receiver: CAPage of Date/Time of this check: 2:34 PM 8/15 Sample Temperature: 24 Client: Corvus Lab # 4B301082-02Received at Lab on ICE? Y ☐ * Sample Temperature when arrived at Lab: 24 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: look

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	
1-23713							✓	<input type="checkbox"/> *	<input checked="" type="checkbox"/> *		
							24th				
							↓				
							1-Hu				

- * 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 January 21, 2014.



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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

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:

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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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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: 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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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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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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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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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
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	03/11/14 09:25	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	

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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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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
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	03/11/14 10:21	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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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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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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PaDEP: PA 41-04684



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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	03/19/14 09:55
Project Manager: Orion Cook	Number of Containers: 19	

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.

4107201

Page 13 of 14

RECEIVING LABORATORY _____
ADDRESS _____
DATE RECEIVED _____
ALL SAMPLES REC'D. INTACT ☐ YES ☐ NO
LIST SAMPLES MISSING/DAMAGED _____
ACCEPTED BY _____
TIME _____

Chain of Custody Receiving Document

Receiver: ALPage of Date/Time of this check: 9/10/14 1530 Sample Temperature: 6 Client Converse Lab # 4C1004500Received at Lab on ICE? Y ☐ * Sample Temperature when arrived at Lab: 6 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?)	
1							AK1	
2								
3								
4								
5								
6								
7								
8								
9								
10								

* DEVIATION PRESENT: <input checked="" type="checkbox"/> No Ice () <input checked="" type="checkbox"/> Not at Proper Temperature () <input checked="" type="checkbox"/> Wrong Container () <input checked="" type="checkbox"/> 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.



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: 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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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
---------	--------	-----	----	-------	----------------------	--------	-----------	------

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



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: 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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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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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: 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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(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: 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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PaDEP: PA 41-04684



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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: 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.

SAMPLING,
Rosemary

ADDRESS Italy, PA

PROJECT NAME Rosemary

DATE 4-29-14

WEATHER Rain 50°

PROJECT NO. 41-17285-02

ATTENTION Dis or Oisc



FIRM RESPONSIBLE FOR SAMPLING
Converse Consultants

2738 West College Avenue
State College, Pennsylvania 16801
814.334.3333

814-234-3223
Fax 814-234-3255

4E61063-01

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	
ML-13	2112	11:53		Pump		1.5	Bailer	2					6.5	162	7.0	(2008 Unloaded Gas) Shift List ✓	
ML-14	1140	11:37				3.5		1					6.4	93	7.5		
ML-15	1105	6:45				4.0		1					6.6	199	7.1		
ML-16	2143	0.708				7.0		1					6.0	1128	6.8		
7B								1									
RELINQUISHED BY (SIGNATURE)				DATE	TIME	RECEIVED BY (SIGNATURE)				RECEIVING LABORATORY							
C. J. B. [Signature]				5-1-14	5-1-14	K. J. [Signature]				ADDRESS					DATE RECEIVED		
RELINQUISHED BY (SIGNATURE)				DATE	TIME	RECEIVED BY (SIGNATURE)				ADDRESS					ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		
K. J. [Signature]				5-1-14	15:15	C. B. [Signature]				DATE RECEIVED					LIST SAMPLES MISSING/DAMAGED		
RELINQUISHED BY (SIGNATURE)				DATE	TIME	RECEIVED BY (SIGNATURE)				ADDRESS					ACCEPTED BY		
										DATE RECEIVED					TIME		
										ADDRESS					ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		
										DATE RECEIVED					LIST SAMPLES MISSING/DAMAGED		
										ADDRESS					ACCEPTED BY		
										DATE RECEIVED					TIME		
										ADDRESS					ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		
										DATE RECEIVED					LIST SAMPLES MISSING/DAMAGED		
										ADDRESS					ACCEPTED BY		
										DATE RECEIVED					TIME		
										ADDRESS					ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		
										DATE RECEIVED					LIST SAMPLES MISSING/DAMAGED		
										ADDRESS					ACCEPTED BY		
										DATE RECEIVED					TIME		
										ADDRESS					ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		
										DATE RECEIVED					LIST SAMPLES MISSING/DAMAGED		
										ADDRESS					ACCEPTED BY		
										DATE RECEIVED					TIME		
										ADDRESS					ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		
										DATE RECEIVED					LIST SAMPLES MISSING/DAMAGED		
										ADDRESS					ACCEPTED BY		
										DATE RECEIVED					TIME		
										ADDRESS					ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		
										DATE RECEIVED					LIST SAMPLES MISSING/DAMAGED		
										ADDRESS					ACCEPTED BY		
										DATE RECEIVED					TIME		
										ADDRESS					ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		
										DATE RECEIVED					LIST SAMPLES MISSING/DAMAGED		
										ADDRESS					ACCEPTED BY		
										DATE RECEIVED					TIME		
										ADDRESS					ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		
										DATE RECEIVED					LIST SAMPLES MISSING/DAMAGED		
										ADDRESS					ACCEPTED BY		
										DATE RECEIVED					TIME		
										ADDRESS					ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		
										DATE RECEIVED					LIST SAMPLES MISSING/DAMAGED		
										ADDRESS					ACCEPTED BY		
										DATE RECEIVED					TIME		
										ADDRESS					ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		
										DATE RECEIVED					LIST SAMPLES MISSING/DAMAGED		
										ADDRESS					ACCEPTED BY		
										DATE RECEIVED					TIME		
										ADDRESS					ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		
										DATE RECEIVED					LIST SAMPLES MISSING/DAMAGED		
										ADDRESS					ACCEPTED BY		
										DATE RECEIVED					TIME		
										ADDRESS					ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		
										DATE RECEIVED							

Receiver: CB

Chain of Custody Receiving Document

Page ____ of ____

Date/Time of this check: 5/11 15:20 Sample Temperature: 4.2 Client: Lawrence Lab # 4E01063-02Received 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"/> *		
14							↑				
15									N/A		
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

- * 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: [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
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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-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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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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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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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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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-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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Converse
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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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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-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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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



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: 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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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

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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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-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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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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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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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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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: 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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PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Converse	Project: ROSEMERGY'S	
2738 West College Avenue	Project Number: [none]	Reported:
State College PA, 16801	Collector: CLIENT	06/26/14 12:49
Project Manager: Orion Cook	Number of Containers: 31	

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

LF 1306701
PA No 0625

SAMPLING PLACE Rosemery

CC FIELD REP OBC 107

FIRM RESPONSIBLE FOR SAMPLING

OWNER

ADDRESS Hawley, PA

DATE 6/12/14
WEATHER intermittent rain, 50s



Converse Consultants

2738 West College Avenue
State College, Pennsylvania 16801
814-234-3223
Fax 814-234-3255

PROJECT NAME Rosemery

ATTENTION OBC or DWS

Firm responsible for sampling

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				
1 MW-1R	9:56	6.35	Bailer	4	Bailer	40 mL HCl		6.3	950	13.2	(2008 Untreated Gas)
2 MW-3	10:45	3.49	Pump	5.25				6.2	2110	12.5	(Short List)
3 MW-4	10:57	3.64		5.5				7.5	1096	13.5	
4 MW-5	10:21	4.65	↓	5				6.9	2010	14.5	
5 MW-7	9:35	7.73	Bailer	3.5				6.7	679	11.1	
6 MW-8	12:47	2.80	Pump	6				7.1	1653	12.2	
7 MW-9	1:15	1.43		6.5				6.8	4080	10.9	
8 MW-10	2:02	3.04		5.5				7.1	946	14.1	
9 MW-11	2:20	3.47		5.5				6.4	830	11.1	
10 MW-12	11:24	4.93	↓	4.5				7.0	820	11.6	
11 MW-13	12:25	12.64	Bailer	1.25				6.9	307	10.6	
12 MW-14	12:15	12.73	↓	3				5.7	123	10.9	
13 MW-15	11:45	8.41	Pump	3				6.2	478	11.4	

RECEIVING LABORATORY
DATE 6/13/14
ADDRESS 1145

RELINQUISHED BY (SIGNATURE) <u>[Signature]</u>	DATE <u>6/13/14</u>	TIME <u>13:20</u>	RECEIVED BY (SIGNATURE) <u>[Signature]</u>
RELINQUISHED BY (SIGNATURE) <u>[Signature]</u>	DATE <u>6/13/14</u>	TIME <u>14:35</u>	RECEIVED BY (SIGNATURE) <u>[Signature]</u>

DATE RECEIVED _____ TIME _____

ALL SAMPLES REC'D. INTACT ☐ YES ☐ NO

LIST SAMPLES MISSING/DAMAGED _____

ACCEPTED BY _____

PA No 0624

CC FIELD REP. 08C 707
C 42 111

DATE 6/12/14

WEATHER Intermittent rain, 30s

PROJECT NO

ATTENTION OBC or DW



2738 West College Avenue
State College, Pennsylvania 16801
814 334 3333

Fax 814-234-3255

RECEIVING LABORATORY _____
 6/13/14 ADDRESS _____
 1145 _____

 DATE RECEIVED _____ TIME _____
 ALL SAMPLES REC'D. INTACT ☐ YES ☐ NO
 LIST SAMPLES MISSING/DAMAGED _____
 ACCEPTED BY _____



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

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: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1R	4I18126-01	Water	Grab	09/17/14 15:12	09/18/14 15:45
MW-2	4I18126-02	Water	Grab	09/17/14 16:04	09/18/14 15:45
MW-3	4I18126-03	Water	Grab	09/17/14 13:03	09/18/14 15:45
MW-4	4I18126-04	Water	Grab	09/17/14 18:06	09/18/14 15:45
MW-5	4I18126-05	Water	Grab	09/17/14 12:38	09/18/14 15:45
MW-7	4I18126-06	Water	Grab	09/17/14 18:30	09/18/14 15:45
MW-8	4I18126-07	Water	Grab	09/17/14 14:38	09/18/14 15:45
MW-9	4I18126-08	Water	Grab	09/17/14 14:11	09/18/14 15:45
MW-10	4I18126-09	Water	Grab	09/17/14 11:34	09/18/14 15:45
MW-11	4I18126-10	Water	Grab	09/17/14 11:00	09/18/14 15:45
MW-12	4I18126-11	Water	Grab	09/17/14 18:57	09/18/14 15:45
MW-13	4I18126-12	Water	Grab	09/17/14 10:27	09/18/14 15:45
MW-14	4I18126-13	Water	Grab	09/17/14 10:10	09/18/14 15:45
MW-15	4I18126-14	Water	Grab	09/17/14 09:12	09/18/14 15:45
MW-16	4I18126-15	Water	Grab	09/17/14 13:34	09/18/14 15:45
MW-2M	4I18126-16	Water	Grab	09/17/14 16:04	09/18/14 15:45
TRIP BLANK	4I18126-17	Water	Trip Blank	09/17/14 00:00	09/18/14 15:45

Fairway Laboratories, Inc.

Reviewed and Submitted by:

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Michael P. Tyler
Laboratory Director

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Converse	Project:	ROSEMERGY'S	
2738 West College Avenue	Project Number:	11-17788-02	Reported:
State College PA, 16801	Collector:	CLIENT	10/02/14 10:48
Project Manager: Orion Cook	Number of Containers:	33	



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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: 33
Reported:
10/02/14 10:48

Client Sample ID: MW-1R

Date/Time Sampled: 09/17/14 15:12

Laboratory Sample ID: 4I18126-01 (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	389		100	ug/l	09/23/14 13:33	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	1490		100	ug/l	09/23/14 13:33	EPA 8260B	mtc	
Benzene	6330		100	ug/l	09/23/14 13:33	EPA 8260B	mtc	
Toluene	5860		100	ug/l	09/23/14 13:33	EPA 8260B	mtc	
Ethylbenzene	2480		100	ug/l	09/23/14 13:33	EPA 8260B	mtc	
Xylenes (total)	11100		200	ug/l	09/23/14 13:33	EPA 8260B	mtc	
Isopropylbenzene	233		100	ug/l	09/23/14 13:33	EPA 8260B	mtc	
Methyl tert-butyl ether	<100		100	ug/l	09/23/14 13:33	EPA 8260B	mtc	
Naphthalene	319		100	ug/l	09/23/14 13:33	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	94.6 %		70-130		09/23/14 13:33	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	84.2 %		70-130		09/23/14 13:33	EPA 8260B	mtc	
Surrogate: Fluorobenzene	100 %		70-130		09/23/14 13:33	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: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

Client Sample ID: MW-2

Date/Time Sampled: 09/17/14 16:04

Laboratory Sample ID: 4I18126-02 (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	112		10.0	ug/l	09/26/14 17:57	EPA 8260B	bag	
1,2,4-Trimethylbenzene	279		10.0	ug/l	09/26/14 17:57	EPA 8260B	bag	
Benzene	501		10.0	ug/l	09/26/14 17:57	EPA 8260B	bag	
Toluene	3090		100	ug/l	09/26/14 17:57	EPA 8260B	bag	
Ethylbenzene	424		10.0	ug/l	09/26/14 17:57	EPA 8260B	bag	
Xylenes (total)	1070		20.0	ug/l	09/26/14 17:57	EPA 8260B	bag	
Isopropylbenzene	97.1		10.0	ug/l	09/26/14 17:57	EPA 8260B	bag	
Methyl tert-butyl ether	<10.0		10.0	ug/l	09/26/14 17:57	EPA 8260B	bag	
Naphthalene	159		10.0	ug/l	09/26/14 17:57	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	95.9 %		70-130		09/26/14 17:57	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	81.2 %		70-130		09/26/14 17:57	EPA 8260B	bag	
Surrogate: Fluorobenzene	97.6 %		70-130		09/26/14 17:57	EPA 8260B	bag	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33

Reported:
10/02/14 10:48

Client Sample ID: MW-3

Date/Time Sampled: 09/17/14 13:03

Laboratory Sample ID: 4I18126-03 (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	22.4		10.0	ug/l	09/30/14 10:12	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	87.1		10.0	ug/l	09/30/14 10:12	EPA 8260B	mtc	
Benzene	476		10.0	ug/l	09/30/14 10:12	EPA 8260B	mtc	
Toluene	109		10.0	ug/l	09/30/14 10:12	EPA 8260B	mtc	
Ethylbenzene	145		10.0	ug/l	09/30/14 10:12	EPA 8260B	mtc	
Xylenes (total)	541		20.0	ug/l	09/30/14 10:12	EPA 8260B	mtc	
Isopropylbenzene	50.4		10.0	ug/l	09/30/14 10:12	EPA 8260B	mtc	
Methyl tert-butyl ether	1190		10.0	ug/l	09/30/14 10:12	EPA 8260B	mtc	
Naphthalene	26.0		10.0	ug/l	09/30/14 10:12	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130		09/30/14 10:12	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	89.9 %		70-130		09/30/14 10:12	EPA 8260B	mtc	
Surrogate: Fluorobenzene	98.3 %		70-130		09/30/14 10:12	EPA 8260B	mtc	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

Client Sample ID: MW-4

Date/Time Sampled: 09/17/14 18:06

Laboratory Sample ID: 4I18126-04 (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	128		20.0	ug/l	09/26/14 14:11	EPA 8260B	bag	
1,2,4-Trimethylbenzene	445		20.0	ug/l	09/26/14 14:11	EPA 8260B	bag	
Benzene	225		20.0	ug/l	09/26/14 14:11	EPA 8260B	bag	
Toluene	864		20.0	ug/l	09/26/14 14:11	EPA 8260B	bag	
Ethylbenzene	452		20.0	ug/l	09/26/14 14:11	EPA 8260B	bag	
Xylenes (total)	2070		40.0	ug/l	09/26/14 14:11	EPA 8260B	bag	
Isopropylbenzene	65.6		20.0	ug/l	09/26/14 14:11	EPA 8260B	bag	
Methyl tert-butyl ether	<20.0		20.0	ug/l	09/26/14 14:11	EPA 8260B	bag	
Naphthalene	73.6		20.0	ug/l	09/26/14 14:11	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	96.4 %		70-130		09/26/14 14:11	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	81.1 %		70-130		09/26/14 14:11	EPA 8260B	bag	
Surrogate: Fluorobenzene	96.5 %		70-130		09/26/14 14:11	EPA 8260B	bag	

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Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

Client Sample ID: MW-5

Date/Time Sampled: 09/17/14 12:38

Laboratory Sample ID: 4I18126-05 (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	545		20.0	ug/l	09/26/14 15:28	EPA 8260B	bag	
1,2,4-Trimethylbenzene	1820		20.0	ug/l	09/26/14 15:28	EPA 8260B	bag	
Benzene	1760		20.0	ug/l	09/26/14 15:28	EPA 8260B	bag	
Toluene	4930		100	ug/l	09/30/14 16:30	EPA 8260B	bag	
Ethylbenzene	2200		20.0	ug/l	09/26/14 15:28	EPA 8260B	bag	
Xylenes (total)	16900		200	ug/l	09/30/14 16:30	EPA 8260B	bag	
Isopropylbenzene	337		20.0	ug/l	09/26/14 15:28	EPA 8260B	bag	
Methyl tert-butyl ether	<20.0		20.0	ug/l	09/26/14 15:28	EPA 8260B	bag	
Naphthalene	681		20.0	ug/l	09/26/14 15:28	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	96.7 %		70-130		09/26/14 15:28	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	79.3 %		70-130		09/26/14 15:28	EPA 8260B	bag	
Surrogate: Fluorobenzene	97.0 %		70-130		09/26/14 15:28	EPA 8260B	bag	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33

Reported:
10/02/14 10:48

Client Sample ID: MW-7

Date/Time Sampled: 09/17/14 18:30

Laboratory Sample ID: 4I18126-06 (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	56.2		20.0	ug/l	09/26/14 14:50	EPA 8260B	bag	
1,2,4-Trimethylbenzene	153		20.0	ug/l	09/26/14 14:50	EPA 8260B	bag	
Benzene	2200		20.0	ug/l	09/26/14 14:50	EPA 8260B	bag	
Toluene	66.4		20.0	ug/l	09/26/14 14:50	EPA 8260B	bag	
Ethylbenzene	299		20.0	ug/l	09/26/14 14:50	EPA 8260B	bag	
Xylenes (total)	436		40.0	ug/l	09/26/14 14:50	EPA 8260B	bag	
Isopropylbenzene	51.8		20.0	ug/l	09/26/14 14:50	EPA 8260B	bag	
Methyl tert-butyl ether	48.4		20.0	ug/l	09/26/14 14:50	EPA 8260B	bag	
Naphthalene	65.4		20.0	ug/l	09/26/14 14:50	EPA 8260B	bag	
<i>Surrogate: 4-Bromofluorobenzene</i>	94.9 %		70-130		09/26/14 14:50	EPA 8260B	bag	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	82.0 %		70-130		09/26/14 14:50	EPA 8260B	bag	
<i>Surrogate: Fluorobenzene</i>	97.5 %		70-130		09/26/14 14:50	EPA 8260B	bag	

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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: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

Client Sample ID: MW-8

Date/Time Sampled: 09/17/14 14:38

Laboratory Sample ID: 4I18126-07 (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	5.16		1.00	ug/l	09/23/14 18:07	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	19.4		1.00	ug/l	09/23/14 18:07	EPA 8260B	wlm	
Benzene	8.76		1.00	ug/l	09/23/14 18:07	EPA 8260B	wlm	
Toluene	13.0		1.00	ug/l	09/23/14 18:07	EPA 8260B	wlm	
Ethylbenzene	18.8		1.00	ug/l	09/23/14 18:07	EPA 8260B	wlm	
Xylenes (total)	90.5		2.00	ug/l	09/23/14 18:07	EPA 8260B	wlm	
Isopropylbenzene	2.57		1.00	ug/l	09/23/14 18:07	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	09/23/14 18:07	EPA 8260B	wlm	
Naphthalene	3.64		1.00	ug/l	09/23/14 18:07	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	96.7 %		70-130		09/23/14 18:07	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	94.3 %		70-130		09/23/14 18:07	EPA 8260B	wlm	
Surrogate: Fluorobenzene	99.9 %		70-130		09/23/14 18:07	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: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

Client Sample ID: MW-9

Date/Time Sampled: 09/17/14 14:11

Laboratory Sample ID: 4I18126-08 (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	8.68		1.00	ug/l	09/23/14 19:23	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	36.1		1.00	ug/l	09/23/14 19:23	EPA 8260B	wlm	
Benzene	82.9		1.00	ug/l	09/23/14 19:23	EPA 8260B	wlm	
Toluene	39.8		1.00	ug/l	09/23/14 19:23	EPA 8260B	wlm	
Ethylbenzene	41.0		1.00	ug/l	09/23/14 19:23	EPA 8260B	wlm	
Xylenes (total)	165		2.00	ug/l	09/23/14 19:23	EPA 8260B	wlm	
Isopropylbenzene	9.87		1.00	ug/l	09/23/14 19:23	EPA 8260B	wlm	
Methyl tert-butyl ether	5.10		1.00	ug/l	09/23/14 19:23	EPA 8260B	wlm	
Naphthalene	8.05		1.00	ug/l	09/23/14 19:23	EPA 8260B	wlm	2b
<i>Surrogate: 4-Bromofluorobenzene</i>	96.4 %		70-130		09/23/14 19:23	EPA 8260B	wlm	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	94.5 %		70-130		09/23/14 19:23	EPA 8260B	wlm	
<i>Surrogate: Fluorobenzene</i>	98.0 %		70-130		09/23/14 19:23	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: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

Client Sample ID: MW-10

Date/Time Sampled: 09/17/14 11:34

Laboratory Sample ID: 4I18126-09 (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	09/20/14 09:15	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	09/20/14 09:15	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	09/20/14 09:15	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	09/20/14 09:15	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	09/20/14 09:15	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	09/20/14 09:15	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	09/20/14 09:15	EPA 8260B	wlm	
Methyl tert-butyl ether	11.5		1.00	ug/l	09/20/14 09:15	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	09/20/14 09:15	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	91.7 %		70-130		09/20/14 09:15	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	102 %		70-130		09/20/14 09:15	EPA 8260B	wlm	
Surrogate: Fluorobenzene	103 %		70-130		09/20/14 09:15	EPA 8260B	wlm	

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(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: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

Client Sample ID: MW-11

Date/Time Sampled: 09/17/14 11:00

Laboratory Sample ID: 4I18126-10 (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	09/20/14 05:47	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	09/20/14 05:47	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	09/20/14 05:47	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	09/20/14 05:47	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	09/20/14 05:47	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	09/20/14 05:47	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	09/20/14 05:47	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	09/20/14 05:47	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	09/20/14 05:47	EPA 8260B	mtc	2e
Surrogate: 4-Bromofluorobenzene	87.0 %		70-130		09/20/14 05:47	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	93.5 %		70-130		09/20/14 05:47	EPA 8260B	mtc	
Surrogate: Fluorobenzene	99.1 %		70-130		09/20/14 05:47	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: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

Client Sample ID: MW-12

Date/Time Sampled: 09/17/14 18:57

Laboratory Sample ID: 4I18126-11 (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	6.74		1.00	ug/l	09/20/14 06:25	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	19.9		1.00	ug/l	09/20/14 06:25	EPA 8260B	mtc	
Benzene	20.4		1.00	ug/l	09/20/14 06:25	EPA 8260B	mtc	
Toluene	24.9		1.00	ug/l	09/20/14 06:25	EPA 8260B	mtc	
Ethylbenzene	18.9		1.00	ug/l	09/20/14 06:25	EPA 8260B	mtc	
Xylenes (total)	82.6		2.00	ug/l	09/20/14 06:25	EPA 8260B	mtc	
Isopropylbenzene	3.45		1.00	ug/l	09/20/14 06:25	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	09/20/14 06:25	EPA 8260B	mtc	
Naphthalene	1.26		1.00	ug/l	09/20/14 06:25	EPA 8260B	mtc	2e
Surrogate: 4-Bromofluorobenzene	92.2 %		70-130		09/20/14 06:25	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	93.5 %		70-130		09/20/14 06:25	EPA 8260B	mtc	
Surrogate: Fluorobenzene	100 %		70-130		09/20/14 06:25	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: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

Client Sample ID: MW-13

Date/Time Sampled: 09/17/14 10:27

Laboratory Sample ID: 4I18126-12 (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	09/20/14 07:02	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	09/20/14 07:02	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	09/20/14 07:02	EPA 8260B	mtc	
Toluene	1.81		1.00	ug/l	09/20/14 07:02	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	09/20/14 07:02	EPA 8260B	mtc	
Xylenes (total)	3.61		2.00	ug/l	09/20/14 07:02	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	09/20/14 07:02	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	09/20/14 07:02	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	09/20/14 07:02	EPA 8260B	mtc	2e
Surrogate: 4-Bromofluorobenzene	88.9 %		70-130		09/20/14 07:02	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	91.3 %		70-130		09/20/14 07:02	EPA 8260B	mtc	
Surrogate: Fluorobenzene	98.5 %		70-130		09/20/14 07:02	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

Client Sample ID: MW-14

Date/Time Sampled: 09/17/14 10:10

Laboratory Sample ID: 4I18126-13 (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	09/20/14 07:40	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	09/20/14 07:40	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	09/20/14 07:40	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	09/20/14 07:40	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	09/20/14 07:40	EPA 8260B	mtc	
Xylenes (total)	2.19		2.00	ug/l	09/20/14 07:40	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	09/20/14 07:40	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	09/20/14 07:40	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	09/20/14 07:40	EPA 8260B	mtc	2e
Surrogate: 4-Bromofluorobenzene	89.4 %		70-130		09/20/14 07:40	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	93.5 %		70-130		09/20/14 07:40	EPA 8260B	mtc	
Surrogate: Fluorobenzene	99.2 %		70-130		09/20/14 07:40	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

Client Sample ID: MW-15

Date/Time Sampled: 09/17/14 09:12

Laboratory Sample ID: 4I18126-14 (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	09/20/14 08:17	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	09/20/14 08:17	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	09/20/14 08:17	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	09/20/14 08:17	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	09/20/14 08:17	EPA 8260B	mtc	
Xylenes (total)	4.25		2.00	ug/l	09/20/14 08:17	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	09/20/14 08:17	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	09/20/14 08:17	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	09/20/14 08:17	EPA 8260B	mtc	2e
Surrogate: 4-Bromofluorobenzene	87.4 %		70-130		09/20/14 08:17	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	92.2 %		70-130		09/20/14 08:17	EPA 8260B	mtc	
Surrogate: Fluorobenzene	98.6 %		70-130		09/20/14 08:17	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

Client Sample ID: MW-16

Date/Time Sampled: 09/17/14 13:34

Laboratory Sample ID: 4I18126-15 (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	7.35		1.00	ug/l	09/20/14 08:55	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	26.9		1.00	ug/l	09/20/14 08:55	EPA 8260B	mtc	
Benzene	19.6		1.00	ug/l	09/20/14 08:55	EPA 8260B	mtc	
Toluene	26.4		1.00	ug/l	09/20/14 08:55	EPA 8260B	mtc	
Ethylbenzene	32.4		1.00	ug/l	09/20/14 08:55	EPA 8260B	mtc	
Xylenes (total)	138		2.00	ug/l	09/20/14 08:55	EPA 8260B	mtc	
Isopropylbenzene	4.18		1.00	ug/l	09/20/14 08:55	EPA 8260B	mtc	
Methyl tert-butyl ether	29.9		1.00	ug/l	09/20/14 08:55	EPA 8260B	mtc	
Naphthalene	1.81		1.00	ug/l	09/20/14 08:55	EPA 8260B	mtc	2e
Surrogate: 4-Bromofluorobenzene	92.3 %		70-130		09/20/14 08:55	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	92.1 %		70-130		09/20/14 08:55	EPA 8260B	mtc	
Surrogate: Fluorobenzene	99.3 %		70-130		09/20/14 08:55	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: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

Client Sample ID: MW-2M

Date/Time Sampled: 09/17/14 16:04

Laboratory Sample ID: 4I18126-16 (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	195		10.0	ug/l	09/30/14 10:50	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	585		10.0	ug/l	09/30/14 10:50	EPA 8260B	mtc	
Benzene	1040		10.0	ug/l	09/30/14 10:50	EPA 8260B	mtc	
Toluene	3830		100	ug/l	09/30/14 17:08	EPA 8260B	mtc	
Ethylbenzene	831		10.0	ug/l	09/30/14 10:50	EPA 8260B	mtc	
Xylenes (total)	2110		20.0	ug/l	09/30/14 10:50	EPA 8260B	mtc	
Isopropylbenzene	190		10.0	ug/l	09/30/14 10:50	EPA 8260B	mtc	
Methyl tert-butyl ether	27.7		10.0	ug/l	09/30/14 10:50	EPA 8260B	mtc	
Naphthalene	344		10.0	ug/l	09/30/14 10:50	EPA 8260B	mtc	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.6 %		70-130		09/30/14 10:50	EPA 8260B	mtc	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	88.0 %		70-130		09/30/14 10:50	EPA 8260B	mtc	
<i>Surrogate: Fluorobenzene</i>	96.1 %		70-130		09/30/14 10:50	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: CLIENT
Number of Containers: 33
Reported:
10/02/14 10:48

Client Sample ID: TRIP BLANK

Date/Time Sampled: 09/17/14 00:00

Laboratory Sample ID: 4I18126-17 (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	09/20/14 09:32	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	09/20/14 09:32	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	09/20/14 09:32	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	09/20/14 09:32	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	09/20/14 09:32	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	09/20/14 09:32	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	09/20/14 09:32	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	09/20/14 09:32	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	09/20/14 09:32	EPA 8260B	mtc	2e
Surrogate: 4-Bromofluorobenzene	87.0 %		70-130		09/20/14 09:32	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	92.3 %		70-130		09/20/14 09:32	EPA 8260B	mtc	
Surrogate: Fluorobenzene	99.3 %		70-130		09/20/14 09:32	EPA 8260B	mtc	

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Converse	Project: ROSEMERGY'S	
2738 West College Avenue	Project Number: 11-17788-02	Reported:
State College PA, 16801	Collector: CLIENT	10/02/14 10:48
Project Manager: Orion Cook	Number of Containers: 33	

Notes

- 2b The spike recovery was outside acceptance limits for the MS and/or MSD. Data accepted based on acceptable LCS recovery.
- 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.



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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: CLIENT	10/02/14 10:48
Project Manager: Orion Cook	Number of Containers: 33	

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

Fairway Laboratories, Inc.

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

SAMPLING PLACE Roseville, PA
 OWNER 100012011
 ADDRESS Hawthorn, PA
 DATE 11/17/14
 WEATHER M. Sunny 50s-60s
 PROJECT NO. 11-17788-02
 ATTENTION DWS or OBC



FIRM RESPONSIBLE FOR SAMPLING
Converse Consultants
 2738 West College Avenue
 State College, Pennsylvania 16801
 814-234-3223
 Fax 814-234-3255

PROJECT NAME Roseville

100012011

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				
MW-1R	3:12	7.49	Pump		3.5	Pump	40 mL HCl		6.2	515	20.1	10008 PHAIF 4/10/10
MW-2	4:04	5.27			4.4				6.5	1115	19.4	500 Short List
MW-3	1:03	4.14			4.1				6.2	642	18.3	
MW-4	6:06	4.20			5.0				6.1	660	19.5	
MW-5	4:28	4.75			4.8				6.7	700	21.9	
MW-7	6:30	9.19			2.8				6.2	545	16.2	
MW-8	2:28	3.76			5.3				6.9	1276	15.6	
MW-9	2:11	1.81			6.2				6.4	1932	15.6	
MW-10	1:34	3.54			5.0				6.6	839	17.3	
MW-11	11:06	4.01			5.2				6.0	634	16.7	
MW-12	6:57	5.44			4.4				6.3	453	16.8	
MW-13	10:01	11.34			0.3				6.5	368	17.5	
MW-14	10:10	14.50			0.0				6.7	115	17.8	

RECEIVING LABORATORY

ADDRESS

DATE RECEIVED

ALL SAMPLES REC'D INTACT ☐ YES ☐ NO

LIST SAMPLES MISSING/DAMAGED

ACCEPTED BY

RELINQUISHED BY (SIGNATURE) [Signature] DATE 9/15/14 TIME 1400 RECEIVED BY (SIGNATURE) [Signature]
 RELINQUISHED BY (SIGNATURE) [Signature] DATE 9-18-14 TIME 1535 RECEIVED BY (SIGNATURE) [Signature]
 RELINQUISHED BY (SIGNATURE) [Signature] DATE 9-18-14 TIME 1535 RECEIVED BY (SIGNATURE) [Signature]

20th

CC FIELD REP. 05C TUI

DATE 9/11/17

WEATHER M. Sunny 80-90

PROJECT NO.

ATTENTION



2738 West College Avenue
State College, Pennsylvania 16801

Fax 814-234-3255

181815

RECEIVING LABORATORY _____

ADDRESS _____

DATE RECEIVED _____ TIME _____

ALL SAMPLES REC'D. INTACT ☐ YES ☐ NO

LIST SAMPLES MISSING/DAMAGED _____

ACCEPTED BY _____



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: CLIENT

Number of Containers: 4

Reported:

11/21/13 09:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1RWS	3J31070-01	Water	Grab	10/30/13 08:25	10/31/13 15:20
MW-8	3J31070-02	Solid	Grab	10/29/13 09:58	10/31/13 15:20
MW-12	3J31070-03	Solid	Grab	10/28/13 11:51	10/31/13 15:20

Fairway Laboratories, Inc.

Reviewed and Submitted by:

Michael P. Tyler
Laboratory Director

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

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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: 11-17788-02
Collector: CLIENT
Number of Containers: 4

Reported:
11/21/13 09:21

Client Sample ID: MW-1RWS

Date/Time Sampled: 10/30/13 08:25

Laboratory Sample ID: 3J31070-01 (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	11/01/13 19:45	EPA 8260B	MTC	
1,2,4-Trimethylbenzene	<2.00		2.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Benzene	<2.00		2.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Toluene	<2.00		2.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Ethylbenzene	<2.00		2.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Xylenes (total)	<4.00		4.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Isopropylbenzene	<2.00		2.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Methyl tert-butyl ether	<2.00		2.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Naphthalene	<2.00		2.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Surrogate: 4-Bromofluorobenzene	97.8 %		70-130		11/01/13 19:45	EPA 8260B	MTC	
Surrogate: 1,2-Dichloroethane-d4	102 %		70-130		11/01/13 19:45	EPA 8260B	MTC	
Surrogate: Fluorobenzene	99.2 %		70-130		11/01/13 19:45	EPA 8260B	MTC	

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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: 11-17788-02

Collector: CLIENT

Number of Containers: 4

Reported:

11/21/13 09:21

Client Sample ID: MW-8

Date/Time Sampled: 10/29/13 09:58

Laboratory Sample ID: 3J31070-02 (Solid/Grab)

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

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	87.4	0.100	%	11/01/13 16:01	SM20-2540G	arr
----------	------	-------	---	----------------	------------	-----

Subcontracted Analyses

Total Organic Carbon	740	550	mg/kg dry wt.	11/18/13 14:09	ASTM D6316	sub	4a
----------------------	-----	-----	---------------	----------------	------------	-----	----

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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: 4

Reported:

11/21/13 09:21

Client Sample ID: MW-12

Date/Time Sampled: 10/28/13 11:51

Laboratory Sample ID: 3J31070-03 (Solid/Grab)

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

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	89.6	0.100	%	11/01/13 16:01	SM20-2540G	arr
----------	------	-------	---	----------------	------------	-----

Subcontracted Analyses

Total Organic Carbon	<550	550	mg/kg dry wt.	11/18/13 14:24	ASTM D6316	sub	4a
----------------------	------	-----	---------------	----------------	------------	-----	----

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PaDEP: PA 41-04684



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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: CLIENT

11/21/13 09:21

Project Manager: Orion Cook

Number of Containers: 4

Notes

4a This sample was subcontracted to Laboratory - ID# 1056715.

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

OWNER Wendy Lock

ADDRESS Hawley, PA

PROJECT NAME Rosemary's

DATE 10-28-13 10-20-13

WEATHER F. Cloudy 70°-75°

PROJECT NO. 11-17788-00

ATTENTION Do's or C's



FIRM RESPONSIBLE FOR SAMPLING

2738 West College Avenue
State College, Pennsylvania 16801

814-234-3223

Fax 814-234-3255

RECEIVING LABORATORY _____
ADDRESS _____
DATE RECEIVED _____
ALL SAMPLES REC'D. INTACT ☐ YES ☐ NO
LIST SAMPLES MISSING/DAMAGED _____
ACCEPTED BY _____



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: CLIENT

Number of Containers: 4

Reported:

11/21/13 09:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1RWS	3J31070-01	Water	Grab	10/30/13 08:25	10/31/13 15:20
MW-8	3J31070-02	Solid	Grab	10/29/13 09:58	10/31/13 15:20
MW-12	3J31070-03	Solid	Grab	10/28/13 11:51	10/31/13 15:20

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

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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: 4

Reported:
11/21/13 09:21

Client Sample ID: MW-1RWS

Date/Time Sampled: 10/30/13 08:25

Laboratory Sample ID: 3J31070-01 (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	11/01/13 19:45	EPA 8260B	MTC	
1,2,4-Trimethylbenzene	<2.00		2.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Benzene	<2.00		2.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Toluene	<2.00		2.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Ethylbenzene	<2.00		2.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Xylenes (total)	<4.00		4.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Isopropylbenzene	<2.00		2.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Methyl tert-butyl ether	<2.00		2.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Naphthalene	<2.00		2.00	ug/l	11/01/13 19:45	EPA 8260B	MTC	
Surrogate: 4-Bromofluorobenzene	97.8 %		70-130		11/01/13 19:45	EPA 8260B	MTC	
Surrogate: 1,2-Dichloroethane-d4	102 %		70-130		11/01/13 19:45	EPA 8260B	MTC	
Surrogate: Fluorobenzene	99.2 %		70-130		11/01/13 19:45	EPA 8260B	MTC	

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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: 11-17788-02
Collector: CLIENT
Number of Containers: 4

Reported:
11/21/13 09:21

Client Sample ID: MW-8

Date/Time Sampled: 10/29/13 09:58

Laboratory Sample ID: 3J31070-02 (Solid/Grab)

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

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	87.4	0.100	%	11/01/13 16:01	SM20-2540G	arr
----------	------	-------	---	----------------	------------	-----

Subcontracted Analyses

Total Organic Carbon	740	550	mg/kg dry wt.	11/18/13 14:09	ASTM D6316	sub	4a
----------------------	-----	-----	---------------	----------------	------------	-----	----

Fairway Laboratories, Inc.

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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: 4

Reported:
11/21/13 09:21

Client Sample ID: MW-12

Date/Time Sampled: 10/28/13 11:51

Laboratory Sample ID: 3J31070-03 (Solid/Grab)

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

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	89.6	0.100	%	11/01/13 16:01	SM20-2540G	arr
----------	------	-------	---	----------------	------------	-----

Subcontracted Analyses

Total Organic Carbon	<550	550 mg/kg dry wt.	11/18/13 14:24	ASTM D6316	sub	4a
----------------------	------	-------------------	----------------	------------	-----	----

Fairway Laboratories, Inc.

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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: 4

Reported:

11/21/13 09:21

Notes

4a This sample was subcontracted to Laboratory - ID# 1056715.

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.

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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

SAMPLING PLACE Keokuk

OWNER Woodloch

ADDRESS Haverly, PA

PROJECT NAME Rosemary's

CC FIELD REP. OB

DATE 10-28-12 10-30-13

WEATHER 1. cloudy 10-350

PROJECT NO. 11-17788-02

ATTENTION Dis or CC



2738 West College Avenue
State College, Pennsylvania 16801

814-234-3223

Fax 814-234-3255

RECEIVING LABORATORY _____
ADDRESS _____
DATE RECEIVED _____
ALL SAMPLES REC'D. INTACT ☐ YES ☐ NO
LIST SAMPLES MISSING/DAMAGED _____
ACCEPTED BY _____



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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: 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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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: 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	
<i>Surrogate: 4-Bromofluorobenzene</i>	101 %		70-130		11/13/13 05:25	EPA 8260B	MTC	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.0 %		70-130		11/13/13 05:25	EPA 8260B	MTC	
<i>Surrogate: Fluorobenzene</i>	86.7 %		70-130		11/13/13 05:25	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-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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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-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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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	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.3 %		70-130		11/13/13 00:25	EPA 8260B	MTC	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	95.9 %		70-130		11/13/13 00:25	EPA 8260B	MTC	
<i>Surrogate: Fluorobenzene</i>	89.9 %		70-130		11/13/13 00:25	EPA 8260B	MTC	

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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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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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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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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	

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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-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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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



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-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	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.8 %		70-130		11/13/13 01:40	EPA 8260B	MTC	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	94.1 %		70-130		11/13/13 01:40	EPA 8260B	MTC	
<i>Surrogate: Fluorobenzene</i>	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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PaDEP: PA 41-04684



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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.

34104601

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

SAMPLING PLACE Rosemery's OWNER Woodloch CC FIELD REP ORC
 ADDRESS Waverly, PA DATE 11-8-13 WEATHER P. Cloudy 40's
 PROJECT NAME Rosemery's PROJECT NO. 11-17788-02 ATTENTION Was at ORC
 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
							1	2				
1 MLW-1R	1:48	10.89	bauler		1.5	bauler	40mL HCL		6.3	1882	16.9	(2008 calculated gas)
2 MLW-2	12:50	8.62			3				6.4	2120	16.1	short list
3 MLW-3	12:25	6.73			3.5				5.6	2710	14.8	
4 MLW-4	1:25	7.36			3.5				6.6	2250	15.7	
5 MLW-5	11:55	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	507	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	
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DISTRIBUTION: WHITE—WITH SHIPMENT TO LAB. CANARY—CONVERSE. PINK—RETAINED BY FIELD REP.

RECEIVING LABORATORY ADDRESS Fairbury Labs
 DATE RECEIVED 11/11/13 TIME 1:30
 ALL SAMPLES REC'D. INTACT ☒ YES ☐ NO
 LIST SAMPLES MISSING/DAMAGED ALL 11/11/13 15:45
 ACCEPTED BY [Signature]



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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: 32
Reported:
12/18/14 10:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1R	4L05107-01	Water	Grab	12/03/14 12:15	12/05/14 14:40
MW-2	4L05107-02	Water	Grab	12/03/14 11:02	12/05/14 14:40
MW-3	4L05107-03	Water	Grab	12/03/14 10:36	12/05/14 14:40
MW-4	4L05107-04	Water	Grab	12/03/14 10:08	12/05/14 14:40
MW-5	4L05107-05	Water	Grab	12/03/14 11:46	12/05/14 14:40
MW-7	4L05107-06	Water	Grab	12/03/14 12:51	12/05/14 14:40
MW-8	4L05107-07	Water	Grab	12/04/14 09:58	12/05/14 14:40
MW-9	4L05107-08	Water	Grab	12/04/14 10:39	12/05/14 14:40
MW-10	4L05107-09	Water	Grab	12/03/14 15:29	12/05/14 14:40
MW-11	4L05107-10	Water	Grab	12/03/14 14:52	12/05/14 14:40
MW-12	4L05107-11	Water	Grab	12/04/14 09:11	12/05/14 14:40
MW-13	4L05107-12	Water	Grab	12/03/14 14:16	12/05/14 14:40
MW-14	4L05107-13	Water	Grab	12/03/14 13:55	12/05/14 14:40
MW-15	4L05107-14	Water	Grab	12/03/14 13:21	12/05/14 14:40
MW-16	4L05107-15	Water	Grab	12/03/14 16:22	12/05/14 14:40
MW-1M	4L05107-16	Water	Grab	12/03/14 12:15	12/05/14 14:40

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: CLIENT
Number of Containers: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-1R

Date/Time Sampled: 12/03/14 12:15

Laboratory Sample ID: 4L05107-01 (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	792		50.0	ug/l	12/12/14 01:25	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	3040		50.0	ug/l	12/12/14 01:25	EPA 8260B	mtc	
Benzene	6290		500	ug/l	12/13/14 08:07	EPA 8260B	mtc	
Toluene	7980		500	ug/l	12/13/14 08:07	EPA 8260B	mtc	
Ethylbenzene	4530		50.0	ug/l	12/12/14 01:25	EPA 8260B	mtc	
Xylenes (total)	8300		1000	ug/l	12/13/14 08:07	EPA 8260B	mtc	
Isopropylbenzene	482		50.0	ug/l	12/12/14 01:25	EPA 8260B	mtc	
Methyl tert-butyl ether	62.0		50.0	ug/l	12/12/14 01:25	EPA 8260B	mtc	
Naphthalene	652		50.0	ug/l	12/12/14 01:25	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	102 %		70-130		12/12/14 01:25	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	103 %		70-130		12/12/14 01:25	EPA 8260B	mtc	
Surrogate: Fluorobenzene	101 %		70-130		12/12/14 01:25	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: CLIENT
Number of Containers: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-2

Date/Time Sampled: 12/03/14 11:02

Laboratory Sample ID: 4L05107-02 (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	201		10.0	ug/l	12/13/14 02:26	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	721		10.0	ug/l	12/13/14 02:26	EPA 8260B	mtc	
Benzene	1320		100	ug/l	12/15/14 21:16	EPA 8260B	mtc	
Toluene	5720		100	ug/l	12/15/14 21:16	EPA 8260B	mtc	
Ethylbenzene	1330		100	ug/l	12/15/14 21:16	EPA 8260B	mtc	
Xylenes (total)	3060		20.0	ug/l	12/13/14 02:26	EPA 8260B	mtc	
Isopropylbenzene	187		10.0	ug/l	12/13/14 02:26	EPA 8260B	mtc	
Methyl tert-butyl ether	32.7		10.0	ug/l	12/13/14 02:26	EPA 8260B	mtc	
Naphthalene	235		10.0	ug/l	12/13/14 02:26	EPA 8260B	mtc	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>102 %</i>		<i>70-130</i>		<i>12/13/14 02:26</i>	<i>EPA 8260B</i>	<i>mtc</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>104 %</i>		<i>70-130</i>		<i>12/13/14 02:26</i>	<i>EPA 8260B</i>	<i>mtc</i>	
<i>Surrogate: Fluorobenzene</i>	<i>97.0 %</i>		<i>70-130</i>		<i>12/13/14 02:26</i>	<i>EPA 8260B</i>	<i>mtc</i>	

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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: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-3

Date/Time Sampled: 12/03/14 10:36

Laboratory Sample ID: 4L05107-03 (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	<10.0		10.0	ug/l	12/16/14 00:06	EPA 8260B	MTC	
1,2,4-Trimethylbenzene	10.0		10.0	ug/l	12/16/14 00:06	EPA 8260B	MTC	
Benzene	318		10.0	ug/l	12/16/14 00:06	EPA 8260B	MTC	
Toluene	<10.0		10.0	ug/l	12/16/14 00:06	EPA 8260B	MTC	
Ethylbenzene	11.1		10.0	ug/l	12/16/14 00:06	EPA 8260B	MTC	
Xylenes (total)	<20.0		20.0	ug/l	12/16/14 00:06	EPA 8260B	MTC	
Isopropylbenzene	17.9		10.0	ug/l	12/16/14 00:06	EPA 8260B	MTC	
Methyl tert-butyl ether	2560		50.0	ug/l	12/16/14 22:07	EPA 8260B	MTC	
Naphthalene	18.3		10.0	ug/l	12/16/14 00:06	EPA 8260B	MTC	
Surrogate: 4-Bromofluorobenzene	98.3 %		70-130		12/16/14 00:06	EPA 8260B	MTC	
Surrogate: 1,2-Dichloroethane-d4	135 %		70-130		12/16/14 00:06	EPA 8260B	MTC	2n
Surrogate: Fluorobenzene	92.5 %		70-130		12/16/14 00:06	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: CLIENT
Number of Containers: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-4

Date/Time Sampled: 12/03/14 10:08

Laboratory Sample ID: 4L05107-04 (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	7.70		5.00	ug/l	12/15/14 19:23	EPA 8260B	MTC	
1,2,4-Trimethylbenzene	<5.00		5.00	ug/l	12/15/14 19:23	EPA 8260B	MTC	
Benzene	19.2		5.00	ug/l	12/15/14 19:23	EPA 8260B	MTC	
Toluene	<5.00		5.00	ug/l	12/15/14 19:23	EPA 8260B	MTC	
Ethylbenzene	9.70		5.00	ug/l	12/15/14 19:23	EPA 8260B	MTC	
Xylenes (total)	17.4		10.0	ug/l	12/15/14 19:23	EPA 8260B	MTC	
Isopropylbenzene	<5.00		5.00	ug/l	12/15/14 19:23	EPA 8260B	MTC	
Methyl tert-butyl ether	<5.00		5.00	ug/l	12/15/14 19:23	EPA 8260B	MTC	
Naphthalene	<5.00		5.00	ug/l	12/15/14 19:23	EPA 8260B	MTC	
Surrogate: 4-Bromofluorobenzene	108 %		70-130		12/15/14 19:23	EPA 8260B	MTC	
Surrogate: 1,2-Dichloroethane-d4	140 %		70-130		12/15/14 19:23	EPA 8260B	MTC	2n
Surrogate: Fluorobenzene	93.3 %		70-130		12/15/14 19:23	EPA 8260B	MTC	

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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: 11-17788-02
Collector: CLIENT
Number of Containers: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-5

Date/Time Sampled: 12/03/14 11:46

Laboratory Sample ID: 4L05107-05 (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	865		20.0	ug/l	12/12/14 02:40	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	963		100	ug/l	12/15/14 19:42	EPA 8260B	mtc	
Benzene	1440		20.0	ug/l	12/12/14 02:40	EPA 8260B	mtc	
Toluene	2270		100	ug/l	12/15/14 19:42	EPA 8260B	mtc	
Ethylbenzene	1520		100	ug/l	12/15/14 19:42	EPA 8260B	mtc	
Xylenes (total)	8470		200	ug/l	12/15/14 19:42	EPA 8260B	mtc	
Isopropylbenzene	443		20.0	ug/l	12/12/14 02:40	EPA 8260B	mtc	
Methyl tert-butyl ether	<20.0		20.0	ug/l	12/12/14 02:40	EPA 8260B	mtc	
Naphthalene	518		20.0	ug/l	12/12/14 02:40	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	107 %		70-130		12/12/14 02:40	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	102 %		70-130		12/12/14 02:40	EPA 8260B	mtc	
Surrogate: Fluorobenzene	97.2 %		70-130		12/12/14 02:40	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: CLIENT
Number of Containers: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-7

Date/Time Sampled: 12/03/14 12:51

Laboratory Sample ID: 4L05107-06 (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	158		20.0	ug/l	12/12/14 03:18	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	300		20.0	ug/l	12/12/14 03:18	EPA 8260B	mtc	
Benzene	6120		250	ug/l	12/13/14 08:45	EPA 8260B	mtc	
Toluene	296		20.0	ug/l	12/12/14 03:18	EPA 8260B	mtc	
Ethylbenzene	800		20.0	ug/l	12/12/14 03:18	EPA 8260B	mtc	
Xylenes (total)	1120		40.0	ug/l	12/12/14 03:18	EPA 8260B	mtc	
Isopropylbenzene	167		20.0	ug/l	12/12/14 03:18	EPA 8260B	mtc	
Methyl tert-butyl ether	192		20.0	ug/l	12/12/14 03:18	EPA 8260B	mtc	
Naphthalene	222		20.0	ug/l	12/12/14 03:18	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130		12/12/14 03:18	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	101 %		70-130		12/12/14 03:18	EPA 8260B	mtc	
Surrogate: Fluorobenzene	103 %		70-130		12/12/14 03:18	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: CLIENT
Number of Containers: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-8

Date/Time Sampled: 12/04/14 09:58

Laboratory Sample ID: 4L05107-07 (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	1.30		1.00	ug/l	12/10/14 21:37	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	4.05		1.00	ug/l	12/10/14 21:37	EPA 8260B	wlm	
Benzene	2.10		1.00	ug/l	12/10/14 21:37	EPA 8260B	wlm	
Toluene	3.62		1.00	ug/l	12/10/14 21:37	EPA 8260B	wlm	
Ethylbenzene	3.56		1.00	ug/l	12/10/14 21:37	EPA 8260B	wlm	
Xylenes (total)	17.3		2.00	ug/l	12/10/14 21:37	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	12/10/14 21:37	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/10/14 21:37	EPA 8260B	wlm	
Naphthalene	1.17		1.00	ug/l	12/10/14 21:37	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	102 %		70-130		12/10/14 21:37	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	118 %		70-130		12/10/14 21:37	EPA 8260B	wlm	
Surrogate: Fluorobenzene	113 %		70-130		12/10/14 21:37	EPA 8260B	wlm	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-9

Date/Time Sampled: 12/04/14 10:39

Laboratory Sample ID: 4L05107-08 (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	5.15		5.00	ug/l	12/12/14 08:08	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	14.1		5.00	ug/l	12/12/14 08:08	EPA 8260B	mtc	
Benzene	2130		50.0	ug/l	12/15/14 21:35	EPA 8260B	mtc	
Toluene	65.6		5.00	ug/l	12/12/14 08:08	EPA 8260B	mtc	
Ethylbenzene	87.0		5.00	ug/l	12/12/14 08:08	EPA 8260B	mtc	
Xylenes (total)	62.0		10.0	ug/l	12/12/14 08:08	EPA 8260B	mtc	
Isopropylbenzene	43.9		5.00	ug/l	12/12/14 08:08	EPA 8260B	mtc	
Methyl tert-butyl ether	10.7		5.00	ug/l	12/12/14 08:08	EPA 8260B	mtc	
Naphthalene	20.4		5.00	ug/l	12/12/14 08:08	EPA 8260B	mtc	
<i>Surrogate: 4-Bromofluorobenzene</i>	95.0 %		70-130		12/12/14 08:08	EPA 8260B	mtc	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	98.8 %		70-130		12/12/14 08:08	EPA 8260B	mtc	
<i>Surrogate: Fluorobenzene</i>	99.7 %		70-130		12/12/14 08:08	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-10

Date/Time Sampled: 12/03/14 15:29

Laboratory Sample ID: 4L05107-09 (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	1.72		1.00	ug/l	12/11/14 01:43	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	4.82		1.00	ug/l	12/11/14 01:43	EPA 8260B	wlm	
Benzene	13.4		1.00	ug/l	12/11/14 01:43	EPA 8260B	wlm	
Toluene	14.2		1.00	ug/l	12/11/14 01:43	EPA 8260B	wlm	
Ethylbenzene	7.21		1.00	ug/l	12/11/14 01:43	EPA 8260B	wlm	
Xylenes (total)	32.0		2.00	ug/l	12/11/14 01:43	EPA 8260B	wlm	
Isopropylbenzene	1.16		1.00	ug/l	12/11/14 01:43	EPA 8260B	wlm	
Methyl tert-butyl ether	12.6		1.00	ug/l	12/11/14 01:43	EPA 8260B	wlm	
Naphthalene	1.02		1.00	ug/l	12/11/14 01:43	EPA 8260B	wlm	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>		<i>70-130</i>		<i>12/11/14 01:43</i>	<i>EPA 8260B</i>	<i>wlm</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>116 %</i>		<i>70-130</i>		<i>12/11/14 01:43</i>	<i>EPA 8260B</i>	<i>wlm</i>	
<i>Surrogate: Fluorobenzene</i>	<i>110 %</i>		<i>70-130</i>		<i>12/11/14 01:43</i>	<i>EPA 8260B</i>	<i>wlm</i>	

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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: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-11

Date/Time Sampled: 12/03/14 14:52

Laboratory Sample ID: 4L05107-10 (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	2.64		1.00	ug/l	12/10/14 19:05	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	9.79		1.00	ug/l	12/10/14 19:05	EPA 8260B	wlm	
Benzene	19.3		1.00	ug/l	12/10/14 19:05	EPA 8260B	wlm	
Toluene	20.3		1.00	ug/l	12/10/14 19:05	EPA 8260B	wlm	
Ethylbenzene	10.0		1.00	ug/l	12/10/14 19:05	EPA 8260B	wlm	
Xylenes (total)	47.0		2.00	ug/l	12/10/14 19:05	EPA 8260B	wlm	
Isopropylbenzene	1.56		1.00	ug/l	12/10/14 19:05	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/10/14 19:05	EPA 8260B	wlm	
Naphthalene	2.21		1.00	ug/l	12/10/14 19:05	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	103 %		70-130		12/10/14 19:05	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	117 %		70-130		12/10/14 19:05	EPA 8260B	wlm	
Surrogate: Fluorobenzene	113 %		70-130		12/10/14 19:05	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: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-12

Date/Time Sampled: 12/04/14 09:11

Laboratory Sample ID: 4L05107-11 (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	12/10/14 23:31	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	12/10/14 23:31	EPA 8260B	wlm	
Benzene	<1.00		1.00	ug/l	12/10/14 23:31	EPA 8260B	wlm	
Toluene	<1.00		1.00	ug/l	12/10/14 23:31	EPA 8260B	wlm	
Ethylbenzene	<1.00		1.00	ug/l	12/10/14 23:31	EPA 8260B	wlm	
Xylenes (total)	<2.00		2.00	ug/l	12/10/14 23:31	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	12/10/14 23:31	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/10/14 23:31	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	12/10/14 23:31	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	99.5 %		70-130		12/10/14 23:31	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	116 %		70-130		12/10/14 23:31	EPA 8260B	wlm	
Surrogate: Fluorobenzene	113 %		70-130		12/10/14 23:31	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: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-13

Date/Time Sampled: 12/03/14 14:16

Laboratory Sample ID: 4L05107-12 (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	4.89		1.00	ug/l	12/10/14 19:43	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	18.9		1.00	ug/l	12/10/14 19:43	EPA 8260B	wlm	
Benzene	108		1.00	ug/l	12/10/14 19:43	EPA 8260B	wlm	
Toluene	120		5.00	ug/l	12/11/14 19:12	EPA 8260B	wlm	
Ethylbenzene	30.5		1.00	ug/l	12/10/14 19:43	EPA 8260B	wlm	
Xylenes (total)	133		2.00	ug/l	12/10/14 19:43	EPA 8260B	wlm	
Isopropylbenzene	3.32		1.00	ug/l	12/10/14 19:43	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/10/14 19:43	EPA 8260B	wlm	
Naphthalene	5.95		1.00	ug/l	12/10/14 19:43	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	103 %		70-130		12/10/14 19:43	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	113 %		70-130		12/10/14 19:43	EPA 8260B	wlm	
Surrogate: Fluorobenzene	111 %		70-130		12/10/14 19:43	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: 11-17788-02
Collector: CLIENT
Number of Containers: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-14

Date/Time Sampled: 12/03/14 13:55

Laboratory Sample ID: 4L05107-13 (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	7.15		1.00	ug/l	12/10/14 20:21	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	25.6		1.00	ug/l	12/10/14 20:21	EPA 8260B	wlm	
Benzene	71.6		1.00	ug/l	12/10/14 20:21	EPA 8260B	wlm	
Toluene	65.1		1.00	ug/l	12/10/14 20:21	EPA 8260B	wlm	
Ethylbenzene	30.8		1.00	ug/l	12/10/14 20:21	EPA 8260B	wlm	
Xylenes (total)	137		2.00	ug/l	12/10/14 20:21	EPA 8260B	wlm	
Isopropylbenzene	4.43		1.00	ug/l	12/10/14 20:21	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/10/14 20:21	EPA 8260B	wlm	
Naphthalene	6.96		1.00	ug/l	12/10/14 20:21	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	103 %		70-130		12/10/14 20:21	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	113 %		70-130		12/10/14 20:21	EPA 8260B	wlm	
Surrogate: Fluorobenzene	112 %		70-130		12/10/14 20:21	EPA 8260B	wlm	

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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: CLIENT
Number of Containers: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-15

Date/Time Sampled: 12/03/14 13:21

Laboratory Sample ID: 4L05107-14 (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	7.73		1.00	ug/l	12/10/14 20:59	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	25.7		1.00	ug/l	12/10/14 20:59	EPA 8260B	wlm	
Benzene	71.0		1.00	ug/l	12/10/14 20:59	EPA 8260B	wlm	
Toluene	57.2		1.00	ug/l	12/10/14 20:59	EPA 8260B	wlm	
Ethylbenzene	31.0		1.00	ug/l	12/10/14 20:59	EPA 8260B	wlm	
Xylenes (total)	135		2.00	ug/l	12/10/14 20:59	EPA 8260B	wlm	
Isopropylbenzene	4.70		1.00	ug/l	12/10/14 20:59	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/10/14 20:59	EPA 8260B	wlm	
Naphthalene	7.06		1.00	ug/l	12/10/14 20:59	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	102 %		70-130		12/10/14 20:59	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	115 %		70-130		12/10/14 20:59	EPA 8260B	wlm	
Surrogate: Fluorobenzene	112 %		70-130		12/10/14 20:59	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: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-16

Date/Time Sampled: 12/03/14 16:22

Laboratory Sample ID: 4L05107-15 (Water/Grab)

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

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	1.70		1.00	ug/l	12/10/14 22:15	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	4.84		1.00	ug/l	12/10/14 22:15	EPA 8260B	wlm	
Benzene	11.6		1.00	ug/l	12/10/14 22:15	EPA 8260B	wlm	
Toluene	14.6		1.00	ug/l	12/10/14 22:15	EPA 8260B	wlm	
Ethylbenzene	7.72		1.00	ug/l	12/10/14 22:15	EPA 8260B	wlm	
Xylenes (total)	34.1		2.00	ug/l	12/10/14 22:15	EPA 8260B	wlm	
Isopropylbenzene	1.10		1.00	ug/l	12/10/14 22:15	EPA 8260B	wlm	
Methyl tert-butyl ether	19.5		1.00	ug/l	12/10/14 22:15	EPA 8260B	wlm	
Naphthalene	1.16		1.00	ug/l	12/10/14 22:15	EPA 8260B	wlm	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>102 %</i>		<i>70-130</i>		<i>12/10/14 22:15</i>	<i>EPA 8260B</i>	<i>wlm</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>115 %</i>		<i>70-130</i>		<i>12/10/14 22:15</i>	<i>EPA 8260B</i>	<i>wlm</i>	
<i>Surrogate: Fluorobenzene</i>	<i>110 %</i>		<i>70-130</i>		<i>12/10/14 22:15</i>	<i>EPA 8260B</i>	<i>wlm</i>	

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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: 32
Reported:
12/18/14 10:32

Client Sample ID: MW-1M

Date/Time Sampled: 12/03/14 12:15

Laboratory Sample ID: 4L05107-16 (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	594		10.0	ug/l	12/12/14 09:12	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	1700		250	ug/l	12/13/14 09:22	EPA 8260B	mtc	
Benzene	8530		250	ug/l	12/13/14 09:22	EPA 8260B	mtc	
Toluene	13900		250	ug/l	12/12/14 09:12	EPA 8260B	mtc	
Ethylbenzene	2740		250	ug/l	12/13/14 09:22	EPA 8260B	mtc	
Xylenes (total)	14200		500	ug/l	12/13/14 09:22	EPA 8260B	mtc	
Isopropylbenzene	394		10.0	ug/l	12/12/14 09:12	EPA 8260B	mtc	
Methyl tert-butyl ether	57.4		10.0	ug/l	12/12/14 09:12	EPA 8260B	mtc	
Naphthalene	696		10.0	ug/l	12/12/14 09:12	EPA 8260B	mtc	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>102 %</i>		<i>70-130</i>		<i>12/12/14 09:12</i>	<i>EPA 8260B</i>	<i>mtc</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>96.6 %</i>		<i>70-130</i>		<i>12/12/14 09:12</i>	<i>EPA 8260B</i>	<i>mtc</i>	
<i>Surrogate: Fluorobenzene</i>	<i>100 %</i>		<i>70-130</i>		<i>12/12/14 09:12</i>	<i>EPA 8260B</i>	<i>mtc</i>	

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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: CLIENT	12/18/14 10:32
Project Manager: Orion Cook	Number of Containers: 32	

Notes

2n The surrogate value is not within the indicated range, results are considered to be estimated.

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.



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Converse

Project: ROSEMERGY'S

2738 West College Avenue

Project Number: 11-17788-02

Reported:

State College PA, 16801

Collector: CLIENT

12/18/14 10:32

Project Manager: Orion Cook

Number of Containers: 32

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

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Page 1/2

PA 1 of 3

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

SAMPLING PLACE Rossmore
 OWNER Woodloch
 ADDRESS Howley Pt
 PROJECT NAME Rossmore
 CC FIELD REP DT
 DATE 12/13/14
 WEATHER cloudy mist
 PROJECT NO. 11-17768-62
 ATTENTION DWS or OPL



FIRM RESPONSIBLE FOR SAMPLING
Converse Consultants
 2738 West College Avenue
 State College, Pennsylvania 16801
 814-234-3223
 Fax 814-234-3255

42051017#1

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				
1 MW-112	12:15	7.44	Pump		3.5	Pump			5.7	505	14.4	2008 PDEP (unleaded Gas)
2 MW-2	11:02	3.31			5.5				6.6	944	13.0	Short List
3 MW-3	10:36	2.18			5.8				6.2	948	9.6	
4 MW-4	10:08	1.52			6.3				7.3	210	7.4	
5 MW-5	11:46	2.70			5.8				7.1	2860	12.4	
6 MW-7	12:51	9.16			3				6.2	952	14.0	
7 MW-8	9:58	1.68			6.25				6.9	1775	9.9	
8 MW-9	10:39	0.81			6.7				6.6	2360	9.3	
9 MW-10	3:29	2.14			5.9				6.4	1101	9.8	
10 MW-11	3:52	3.16			5.6				6.4	526	10.6	
11 MW-12	9:11	3.72			5.3				6.4	440	10.8	
12 MW-13	2:16	13.77			0.3				6.5	478	12.2	
13 MW-14	1:55	13.94			2.3				5.4	91	13.2	
RELINQUISHED BY (SIGNATURE) <i>[Signature]</i>		DATE 12-5-14	TIME	RECEIVED BY (SIGNATURE) <i>[Signature]</i>		DATE 12-5-14	TIME 13:40	RECEIVING LABORATORY ADDRESS 250				
RELINQUISHED BY (SIGNATURE) <i>[Signature]</i>		DATE 12-5-14	TIME 13:40	RECEIVED BY (SIGNATURE) <i>[Signature]</i>		DATE 12-5-14	TIME 14:40	DATE RECEIVED		TIME		
RELINQUISHED BY (SIGNATURE) <i>[Signature]</i>		DATE 12-5-14	TIME 14:40	RECEIVED BY (SIGNATURE) <i>[Signature]</i>		DATE 12-5-14	TIME 14:40	ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO				
RELINQUISHED BY (SIGNATURE) <i>[Signature]</i>		DATE 12-5-14	TIME 14:40	RECEIVED BY (SIGNATURE) <i>[Signature]</i>		DATE 12-5-14	TIME 14:40	LIST SAMPLES MISSING/DAMAGED				
RELINQUISHED BY (SIGNATURE) <i>[Signature]</i>		DATE 12-5-14	TIME 14:40	RECEIVED BY (SIGNATURE) <i>[Signature]</i>		DATE 12-5-14	TIME 14:40	ACCEPTED BY				

1/92

DISTRIBUTION: WHITE—WITH SHIPMENT TO LAB. CANARY—CONVERSE. PINK—RETAINED BY FIELD REP



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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: 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:

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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: 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
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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	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>101 %</i>		<i>70-130</i>		<i>12/17/13 10:56</i>	<i>EPA 8260B</i>	<i>mtc</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>109 %</i>		<i>70-130</i>		<i>12/17/13 10:56</i>	<i>EPA 8260B</i>	<i>mtc</i>	
<i>Surrogate: Fluorobenzene</i>	<i>90.7 %</i>		<i>70-130</i>		<i>12/17/13 10:56</i>	<i>EPA 8260B</i>	<i>mtc</i>	

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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-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
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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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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: [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
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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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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
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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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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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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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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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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
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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
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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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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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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: [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
---------	--------	-----	----	-------	----------------------	--------	-----------	------

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	

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

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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-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
---------	--------	-----	----	-------	-------------------------	--------	--------------	------

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	

Fairway Laboratories, Inc.

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PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

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 RosemeigsOWNER WoodlochADDRESS Hawley, PAPROJECT NAME RosemeigsCC FIELD REP. OBC
DATE 12-11-13WEATHER Clear 20'sPROJECT NO. 11-17288-02ATTENTION DWS or OBCFIRM RESPONSIBLE FOR SAMPLING
Converse Consultants2738 West College Avenue
State College, Pennsylvania 16801
814-234-3223
Fax 814-234-3255

24

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-1R	1:35	9.90	Boiler		2.5	Boiler	2	40 mL HCL	6.3	1629	13.3	(2008 Unleaded Gas)
2 MW-2	12:02	5.90			4		1		6.4	2980	12.4	Short List
3 MW-3	11:33	3.82			5		1		6.8	2156	9.5	
4 MW-4	11:10	4.41			5		1		6.9	1892	10.3	
5 MW-5	12:35	4.92			5		1		7.4	1920	8.5	
6 MW-7	12:55	12.59			1		1		7.0	2750	12.8	
7 MW-8	10:40	3.14			5.5		1		7.9	1209	9.0	
8 MW-9	10:12	1.14			6.5		1		6.9	2390	8.3	
9 MW-12	2:15	5.46			4.5		1		6.7	415	9.9	
10 SW-8	3:15	NA			NA		1		7.8	149	8.9	
11 SW-12	3:05	NA			NA		1		7.6	154	7.6	
12 TB							1					

RELINQUISHED BY (SIGNATURE) <u>[Signature]</u>	DATE 12-12-13	TIME 1320	RECEIVED BY (SIGNATURE) <u>[Signature]</u>
RELINQUISHED BY (SIGNATURE) <u>[Signature]</u>	DATE 12/12/13	TIME 1505	RECEIVED BY (SIGNATURE) <u>[Signature]</u>
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)

RECEIVING LABORATORY	ADDRESS
	<u>Fairway Labs</u>
DATE RECEIVED	TIME
ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO	
LIST SAMPLES MISSING/DAMAGED	
ACCEPTED BY	

1/92

DISTRIBUTION: WHITE—WITH SHIPMENT TO LAB. CAMARY—CONVERSE. PINK—RETAINED BY FIELD REP.

Chain of Custody Receiving Document

Receiver: MS

Page ____ of ____

Date/Time of this check: 12/12/13 15:25 Sample Temperature: 2.4 Client: Converse Lab # 3212078 00

Received at Lab on ICE? ☒ * Sample Temperature when arrived at Lab 2.4 Acceptable? ☒ * or In cool down process? ☐ *

Custody Seals? Y Intact? Y

COC/Labels on bottles agreed? ☒ * Correct containers for all the analysis requested? Y ☐ * Matrix: water

[illegible]

*** DEVIATION PRESENT:**

CLIENT CALLED:

1- MAY

CLIENT RESPONSE:

3.

 **No Ice**

YES
()

2016

Proceed with analysis; quantify data

CC

Ⓢ Not at Proper Temperature

CO

By Whom:

9

Provided Information

2

 **Wrong Container**

(

三

17152

Provided Information



Missing Information:

C

102115

Date: 12/12

NO RESPONSE, I OCCU AND QUANT

—

Client Contact: OR 102 Date: 12/17

* Comments: MW - 2M 12:11 ② 13:40 - NOT ON LOC

* LOG IN LIKE OTHER SAMPS

Chain of Custody Receiving Document

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,

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive style with a large, flowing "M" and a long, sweeping "y" at the end.

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.

A handwritten signature in black ink, appearing to read "M. Erickson", is displayed on a light gray rectangular background.

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 #: 1A-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

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-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

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

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

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

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 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			

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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
<i>EPA TO-15 in Air</i>	
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

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAM. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. NELAC & ALPHA-LAB, LLC Accredited/WBE/DBE Certified

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: COLLINS

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	DUNCANVILLE, PA
8:20 pm	Arrived at FedEx location	DUNCANVILLE, PA
10:56 am	Picked up	DUNCANVILLE, 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



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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 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 6 Lit 1 1 Lit
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
1218

3224
4625
4626

January 9, 2015

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

Project Location: Rosemary
Client Job Number:
Project Number: 11-17788-02
Laboratory Work Order Number: 14L1136

Enclosed are results of analyses for samples received by the laboratory on December 30, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a long horizontal line extending to the right.

Aaron L. Benoit
Project Manager

Table of Contents

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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: 1/9/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 11-17788-02

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14L1136

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

PROJECT LOCATION: Rosemary

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1A-1 Indoor Air	14L1136-01	Indoor air		EPA TO-15	
1A-2 Indoor Air	14L1136-02	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.

EPA TO-15

Qualifications:

L-03

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Naphthalene

14L1136-01[1A-1 Indoor Air], 14L1136-02[1A-2 Indoor Air], B113160-BLK1, B113160-BS1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

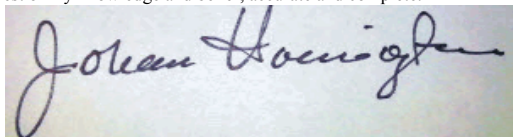
Analyte & Samples(s) Qualified:

Naphthalene

14L1136-01[1A-1 Indoor Air], 14L1136-02[1A-2 Indoor Air], B113160-BLK1, B113160-BS1

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.



Johanna K. Harrington

Manager, Laboratory Reporting

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

ANALYTICAL RESULTS

Project Location: Rosemary
Date Received: 12/30/2014
Field Sample #: 1A-1 Indoor Air
Sample ID: 14L1136-01
Sample Matrix: Indoor air
Sampled: 12/16/2014 14:12

Sample Description/Location:
Sub Description/Location:
Canister ID: 1841
Canister Size: 6 liter
Flow Controller ID: 4610
Sample Type: 4 hr

Work Order: 14L1136
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -9.3
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	0.27	0.035	L-03, V-05	0.85	0.11	0.702	1/6/15	8:09	TPH
Ethylbenzene	0.055	0.035		0.24	0.15	0.702	1/6/15	8:09	TPH
Isopropylbenzene (Cumene)	ND	0.13		ND	0.65	0.702	1/6/15	8:09	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	1/6/15	8:09	TPH
Naphthalene	ND	0.035		ND	0.18	0.702	1/6/15	8:09	TPH
Toluene	0.65	0.035		2.4	0.13	0.702	1/6/15	8:09	TPH
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	1/6/15	8:09	TPH
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	1/6/15	8:09	TPH
m&p-Xylene	0.12	0.070		0.52	0.30	0.702	1/6/15	8:09	TPH
o-Xylene	0.051	0.035	0.22	0.15	0.702	1/6/15	8:09	TPH	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	92.3	70-130	1/6/15 8:09
4-Bromofluorobenzene (2)	84.9	70-130	1/6/15 8:09

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

ANALYTICAL RESULTS

Project Location: Rosemary
Date Received: 12/30/2014
Field Sample #: 1A-2 Indoor Air
Sample ID: 14L1136-02
Sample Matrix: Indoor air
Sampled: 12/16/2014 14:12

Sample Description/Location:
Sub Description/Location:
Canister ID: 1025
Canister Size: 6 liter
Flow Controller ID: 4611
Sample Type: 4 hr

Work Order: 14L1136
Initial Vacuum(in Hg): -26.5
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -2.5
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		
	Results	RL		Results	RL		Analyzed	Analyst	
Benzene	0.34	0.035	L-03, V-05	1.1	0.11	0.702	1/6/15	8:53	TPH
Ethylbenzene	0.28	0.035		1.2	0.15	0.702	1/6/15	8:53	TPH
Isopropylbenzene (Cumene)	ND	0.13		ND	0.65	0.702	1/6/15	8:53	TPH
Methyl tert-Butyl Ether (MTBE)	0.15	0.035		0.55	0.13	0.702	1/6/15	8:53	TPH
Naphthalene	ND	0.035		ND	0.18	0.702	1/6/15	8:53	TPH
Toluene	5.6	0.035		21	0.13	0.702	1/6/15	8:53	TPH
1,2,4-Trimethylbenzene	0.12	0.035		0.58	0.17	0.702	1/6/15	8:53	TPH
1,3,5-Trimethylbenzene	0.041	0.035		0.20	0.17	0.702	1/6/15	8:53	TPH
m&p-Xylene	0.54	0.070		2.3	0.30	0.702	1/6/15	8:53	TPH
o-Xylene	0.19	0.035		0.83	0.15	0.702	1/6/15	8:53	TPH

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	93.8	70-130	1/6/15	8:53
4-Bromofluorobenzene (2)	90.4	70-130	1/6/15	8:53

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

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
14L1136-01 [1A-1 Indoor Air]	B113160	1.5	1	N/A	1000	400	855	01/05/15
14L1136-02 [1A-2 Indoor Air]	B113160	1.5	1	N/A	1000	400	855	01/05/15

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

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B113160 - TO-15 Prep											
Blank (B113160-BLK1)					Prepared & Analyzed: 01/05/15						
Benzene	ND	0.050									
Ethylbenzene	ND	0.050									
Isopropylbenzene (Cumene)	ND	0.19									
Methyl tert-Butyl Ether (MTBE)	ND	0.050									
Naphthalene	ND	0.050									L-03, V-05
Toluene	ND	0.050									
1,2,4-Trimethylbenzene	ND	0.050									
1,3,5-Trimethylbenzene	ND	0.050									
m&p-Xylene	ND	0.10									
o-Xylene	ND	0.050									
Surrogate: 4-Bromofluorobenzene (1)	7.50				8.00		93.7	70-130			
Surrogate: 4-Bromofluorobenzene (2)	6.86				8.00		85.8	70-130			
LCS (B113160-BS1)					Prepared & Analyzed: 01/05/15						
Benzene	4.04				5.00		80.9	70-130			
Ethylbenzene	4.51				5.00		90.2	70-130			
Isopropylbenzene (Cumene)	0.912				1.27		71.8	70-130			
Methyl tert-Butyl Ether (MTBE)	4.17				5.00		83.5	70-130			
Naphthalene	3.40				5.00		67.9 *	70-130			L-03, V-05
Toluene	4.55				5.00		91.0	70-130			
1,2,4-Trimethylbenzene	4.80				5.00		95.9	70-130			
1,3,5-Trimethylbenzene	4.57				5.00		91.4	70-130			
m&p-Xylene	9.77				10.0		97.7	70-130			
o-Xylene	4.56				5.00		91.3	70-130			
Surrogate: 4-Bromofluorobenzene (1)	7.76				8.00		97.0	70-130			
Surrogate: 4-Bromofluorobenzene (2)	7.21				8.00		90.1	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.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
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	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
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	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

11

FedEx[®] Tracking**790100294937**Ship (P/U) date :
Fri 12/26/2014

STATE COLLEGE, PA US

**Delivered**

Signed for by: CCOLLINS

Actual delivery :
Tues 12/30/2014 12:50 pm
East Longmeadow, MA US

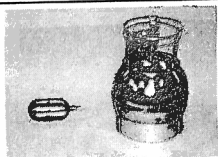
Returns

Travel History

▲ Date/Time	Activity	Location
■ 12/30/2014 - Tuesday		
12:50 pm	Delivered	East Longmeadow, MA
4:41 am	On FedEx vehicle for delivery	CHICOPEE, MA
4:34 am	At local FedEx facility	CHICOPEE, MA
■ 12/29/2014 - Monday		
7:58 pm	Departed FedEx location	WILLINGTON, CT
7:05 pm	Arrived at FedEx location	WILLINGTON, CT
■ 12/27/2014 - Saturday		
10:42 am	Departed FedEx location	LEWISBERRY, PA
2:46 am	Arrived at FedEx location	LEWISBERRY, PA
■ 12/26/2014 - Friday		
8:38 pm	Left FedEx origin facility	DUNCANSVILLE, PA
7:34 pm	Arrived at FedEx location	DUNCANSVILLE, PA
6:10 pm	Picked up	DUNCANSVILLE, PA
4:35 pm	In FedEx possession	STATE COLLEGE, PA
	Tendered at FedEx location	

Shipment Facts

Tracking number	790100294937	Service	FedEx Ground
Weight	20 lbs / 9.07 kgs	Dimensions	22x19x15 in.
Total pieces	1	Return reason	
Packaging	Package	Special handling section	Package Returns Program



www.contestlabs.com



Page 1 of 2

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

AIR Only Receipt ChecklistCLIENT NAME: Converse ConsultantsRECEIVED BY: MJDATE: 12/30/14

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 _____

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

6) Location where samples are stored:

197) Number of cans Individually Certified or Batch Certified? N/A**Containers received at Con-Test**

	# of Containers	Types (Size, Duration)
Summa Cans (TO-14/TO-15/APH)	<u>2</u>	<u>6L</u>
Tedlar Bags		
TO-17 Tubes		
Regulators	<u>2</u>	<u>4HR</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:

1841
1025
4610
4611

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

<u>Question</u>	<u>Answer (True/False)</u>		<u>Comment</u>
	<u>T/F/NA</u>		
1) The coolers'/boxes' 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.	+		
8) Field Sampler's name present on COC.	+		
9) Samples are received within Holding Time.	+		
10) Sample containers have legible labels.	T		
11) Containers/media are not broken or leaking and valves and caps are closed tightly.	T		
12) Sample collection date/times are provided.	+		
13) Appropriate sample/media containers are used.	+		
14) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	+		
15) Trip blanks provided if applicable.	T		

Doc #278 Rev. 5 October 2014

Who notified of False statements?

Log-In Technician Initials:

Date/Time:

Date/Time:

MJ 12/30/14
12:50



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: David Swetland

Project: ROSEMERGY'S

Project Number: 11-17788-02

Collector: CLIENT

Number of Containers: 33

Reported:

09/08/15 08:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1R	5H28033-01	Water	Grab	08/26/15 11:29	08/28/15 13:55
MW-2	5H28033-02	Water	Grab	08/26/15 10:32	08/28/15 13:55
MW-3	5H28033-03	Water	Grab	08/26/15 16:09	08/28/15 13:55
MW-4	5H28033-04	Water	Grab	08/26/15 15:41	08/28/15 13:55
MW-5	5H28033-05	Water	Grab	08/26/15 10:57	08/28/15 13:55
MW-7	5H28033-06	Water	Grab	08/26/15 12:03	08/28/15 13:55
MW-8	5H28033-07	Water	Grab	08/26/15 13:51	08/28/15 13:55
MW-9	5H28033-08	Water	Grab	08/26/15 14:23	08/28/15 13:55
MW-10	5H28033-09	Water	Grab	08/27/15 09:20	08/28/15 13:55
MW-11	5H28033-10	Water	Grab	08/27/15 08:47	08/28/15 13:55
MW-12	5H28033-11	Water	Grab	08/26/15 12:58	08/28/15 13:55
MW-14	5H28033-12	Water	Grab	08/26/15 13:01	08/28/15 13:55
MW-15	5H28033-13	Water	Grab	08/26/15 12:32	08/28/15 13:55
MW-16	5H28033-14	Water	Grab	08/26/15 15:07	08/28/15 13:55
MW-7M	5H28033-15	Water	Grab	08/26/15 12:03	08/28/15 13:55
TRIP BLANK	5H28033-16	Water	Trip Blank	08/26/15 00:00	08/28/15 13:55

Fairway Laboratories, Inc.

Reviewed and Submitted by:

Michael P. Tyler
Laboratory Director

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

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



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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Converse

2738 West College Avenue

State College PA, 16801

Project Manager: David Swetland

Project: ROSEMERGY'S

Project Number: 11-17788-02

Collector: CLIENT

Number of Containers: 33

Reported:

09/08/15 08:42

Client Sample ID: MW-1R

Date/Time Sampled: 08/26/15 11:29

Laboratory Sample ID: 5H28033-01 (Water/Grab)

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

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	300		50.0	ug/l	09/01/15 17:19	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	1150		50.0	ug/l	09/01/15 17:19	EPA 8260B	wlm	
Benzene	6250		100	ug/l	09/03/15 01:21	EPA 8260B	wlm	
Toluene	6030		100	ug/l	09/03/15 01:21	EPA 8260B	wlm	
Ethylbenzene	1700		50.0	ug/l	09/01/15 17:19	EPA 8260B	wlm	
Xylenes (total)	8930		100	ug/l	09/01/15 17:19	EPA 8260B	wlm	
Isopropylbenzene	175		50.0	ug/l	09/01/15 17:19	EPA 8260B	wlm	
Methyl tert-butyl ether	<50.0		50.0	ug/l	09/01/15 17:19	EPA 8260B	wlm	
Naphthalene	252		50.0	ug/l	09/01/15 17:19	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	96.1 %		70-130		09/01/15 17:19	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	93.5 %		70-130		09/01/15 17:19	EPA 8260B	wlm	
Surrogate: Fluorobenzene	100 %		70-130		09/01/15 17:19	EPA 8260B	wlm	

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State Certifications: MD 275, WV 364

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Converse

Project: ROSEMERGY'S

2738 West College Avenue

Project Number: 11-17788-02

Reported:

State College PA, 16801

Collector: CLIENT

09/08/15 08:42

Project Manager: David Swetland

Number of Containers: 33

Client Sample ID: MW-2

Date/Time Sampled: 08/26/15 10:32

Laboratory Sample ID: 5H28033-02 (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	49.5		5.00	ug/l	09/01/15 15:26	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	244		5.00	ug/l	09/01/15 15:26	EPA 8260B	wlm	
Benzene	310		5.00	ug/l	09/01/15 15:26	EPA 8260B	wlm	
Toluene	1130		25.0	ug/l	09/02/15 23:29	EPA 8260B	wlm	
Ethylbenzene	337		5.00	ug/l	09/01/15 15:26	EPA 8260B	wlm	
Xylenes (total)	868		10.0	ug/l	09/01/15 15:26	EPA 8260B	wlm	
Isopropylbenzene	59.4		5.00	ug/l	09/01/15 15:26	EPA 8260B	wlm	
Methyl tert-butyl ether	<5.00		5.00	ug/l	09/01/15 15:26	EPA 8260B	wlm	
Naphthalene	46.2		5.00	ug/l	09/01/15 15:26	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	97.5 %		70-130		09/01/15 15:26	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	94.0 %		70-130		09/01/15 15:26	EPA 8260B	wlm	
Surrogate: Fluorobenzene	99.1 %		70-130		09/01/15 15:26	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: David Swetland

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
09/08/15 08:42

Client Sample ID: MW-3

Date/Time Sampled: 08/26/15 16:09

Laboratory Sample ID: 5H28033-03 (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	3.43		1.00	ug/l	08/28/15 18:19	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	12.6		1.00	ug/l	08/28/15 18:19	EPA 8260B	mtc	
Benzene	207		10.0	ug/l	09/01/15 11:33	EPA 8260B	mtc	
Toluene	12.4		1.00	ug/l	08/28/15 18:19	EPA 8260B	mtc	
Ethylbenzene	15.1		1.00	ug/l	08/28/15 18:19	EPA 8260B	mtc	
Xylenes (total)	38.5		2.00	ug/l	08/28/15 18:19	EPA 8260B	mtc	
Isopropylbenzene	34.8		1.00	ug/l	08/28/15 18:19	EPA 8260B	mtc	
Methyl tert-butyl ether	636		10.0	ug/l	09/01/15 11:33	EPA 8260B	mtc	
Naphthalene	4.74		1.00	ug/l	08/28/15 18:19	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97.1 %		70-130		08/28/15 18:19	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	93.4 %		70-130		08/28/15 18:19	EPA 8260B	mtc	
Surrogate: Fluorobenzene	85.2 %		70-130		08/28/15 18:19	EPA 8260B	mtc	

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2738 West College Avenue

State College PA, 16801

Project Manager: David Swetland

Project: ROSEMERGY'S

Project Number: 11-17788-02

Collector: CLIENT

Number of Containers: 33

Reported:

09/08/15 08:42

Client Sample ID: MW-4

Date/Time Sampled: 08/26/15 15:41

Laboratory Sample ID: 5H28033-04 (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	131		10.0	ug/l	09/01/15 12:11	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	473		10.0	ug/l	09/01/15 12:11	EPA 8260B	mtc	
Benzene	74.7		1.00	ug/l	08/28/15 18:45	EPA 8260B	mtc	
Toluene	304		10.0	ug/l	09/01/15 12:11	EPA 8260B	mtc	
Ethylbenzene	390		10.0	ug/l	09/01/15 12:11	EPA 8260B	mtc	
Xylenes (total)	1650		20.0	ug/l	09/01/15 12:11	EPA 8260B	mtc	
Isopropylbenzene	88.4		1.00	ug/l	08/28/15 18:45	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/28/15 18:45	EPA 8260B	mtc	
Naphthalene	94.4		1.00	ug/l	08/28/15 18:45	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97.0 %		70-130		08/28/15 18:45	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	87.8 %		70-130		08/28/15 18:45	EPA 8260B	mtc	
Surrogate: Fluorobenzene	84.9 %		70-130		08/28/15 18:45	EPA 8260B	mtc	

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Project Manager: David Swetland

Project: ROSEMERGY'S

Project Number: 11-17788-02

Collector: CLIENT

Number of Containers: 33

Reported:

09/08/15 08:42

Client Sample ID: MW-5

Date/Time Sampled: 08/26/15 10:57

Laboratory Sample ID: 5H28033-05 (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	430		50.0	ug/l	09/01/15 17:47	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	1670		50.0	ug/l	09/01/15 17:47	EPA 8260B	wlm	
Benzene	6210		250	ug/l	09/03/15 01:49	EPA 8260B	wlm	
Toluene	17500		250	ug/l	09/03/15 01:49	EPA 8260B	wlm	
Ethylbenzene	3110		50.0	ug/l	09/01/15 17:47	EPA 8260B	wlm	
Xylenes (total)	14100		100	ug/l	09/01/15 17:47	EPA 8260B	wlm	
Isopropylbenzene	186		50.0	ug/l	09/01/15 17:47	EPA 8260B	wlm	
Methyl tert-butyl ether	<50.0		50.0	ug/l	09/01/15 17:47	EPA 8260B	wlm	
Naphthalene	316		50.0	ug/l	09/01/15 17:47	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	95.8 %		70-130		09/01/15 17:47	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	92.4 %		70-130		09/01/15 17:47	EPA 8260B	wlm	
Surrogate: Fluorobenzene	103 %		70-130		09/01/15 17:47	EPA 8260B	wlm	

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Project Manager: David Swetland

Project: ROSEMERGY'S

Project Number: 11-17788-02

Collector: CLIENT

Number of Containers: 33

Reported:

09/08/15 08:42

Client Sample ID: MW-7

Date/Time Sampled: 08/26/15 12:03

Laboratory Sample ID: 5H28033-06 (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	91.5		10.0	ug/l	09/01/15 15:54	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	238		10.0	ug/l	09/01/15 15:54	EPA 8260B	wlm	
Benzene	4780		50.0	ug/l	09/02/15 23:57	EPA 8260B	wlm	
Toluene	279		10.0	ug/l	09/01/15 15:54	EPA 8260B	wlm	
Ethylbenzene	436		10.0	ug/l	09/01/15 15:54	EPA 8260B	wlm	
Xylenes (total)	876		20.0	ug/l	09/01/15 15:54	EPA 8260B	wlm	
Isopropylbenzene	85.2		10.0	ug/l	09/01/15 15:54	EPA 8260B	wlm	
Methyl tert-butyl ether	75.0		10.0	ug/l	09/01/15 15:54	EPA 8260B	wlm	
Naphthalene	134		10.0	ug/l	09/01/15 15:54	EPA 8260B	wlm	
<i>Surrogate: 4-Bromofluorobenzene</i>	96.3 %		70-130		09/01/15 15:54	EPA 8260B	wlm	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.2 %		70-130		09/01/15 15:54	EPA 8260B	wlm	
<i>Surrogate: Fluorobenzene</i>	104 %		70-130		09/01/15 15:54	EPA 8260B	wlm	

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Project Manager: David Swetland

Project: ROSEMERGY'S

Project Number: 11-17788-02

Collector: CLIENT

Number of Containers: 33

Reported:

09/08/15 08:42

Client Sample ID: MW-8

Date/Time Sampled: 08/26/15 13:51

Laboratory Sample ID: 5H28033-07 (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	2.22		1.00	ug/l	08/31/15 22:08	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	7.51		1.00	ug/l	08/31/15 22:08	EPA 8260B	wlm	
Benzene	10.1		1.00	ug/l	08/31/15 22:08	EPA 8260B	wlm	
Toluene	22.1		1.00	ug/l	08/31/15 22:08	EPA 8260B	wlm	
Ethylbenzene	6.90		1.00	ug/l	08/31/15 22:08	EPA 8260B	wlm	
Xylenes (total)	34.3		2.00	ug/l	08/31/15 22:08	EPA 8260B	wlm	
Isopropylbenzene	<1.00		1.00	ug/l	08/31/15 22:08	EPA 8260B	wlm	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/31/15 22:08	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	08/31/15 22:08	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	95.9 %		70-130		08/31/15 22:08	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	98.8 %		70-130		08/31/15 22:08	EPA 8260B	wlm	
Surrogate: Fluorobenzene	101 %		70-130		08/31/15 22:08	EPA 8260B	wlm	

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Converse
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State College PA, 16801
Project Manager: David Swetland

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
09/08/15 08:42

Client Sample ID: MW-9

Date/Time Sampled: 08/26/15 14:23

Laboratory Sample ID: 5H28033-08 (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	23.9		10.0	ug/l	09/01/15 16:23	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	24.2		10.0	ug/l	09/01/15 16:23	EPA 8260B	wlm	
Benzene	1590		50.0	ug/l	09/03/15 00:25	EPA 8260B	wlm	
Toluene	113		10.0	ug/l	09/01/15 16:23	EPA 8260B	wlm	
Ethylbenzene	175		10.0	ug/l	09/01/15 16:23	EPA 8260B	wlm	
Xylenes (total)	153		20.0	ug/l	09/01/15 16:23	EPA 8260B	wlm	
Isopropylbenzene	77.3		10.0	ug/l	09/01/15 16:23	EPA 8260B	wlm	
Methyl tert-butyl ether	<10.0		10.0	ug/l	09/01/15 16:23	EPA 8260B	wlm	
Naphthalene	36.2		10.0	ug/l	09/01/15 16:23	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	94.9 %		70-130		09/01/15 16:23	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	93.6 %		70-130		09/01/15 16:23	EPA 8260B	wlm	
Surrogate: Fluorobenzene	101 %		70-130		09/01/15 16:23	EPA 8260B	wlm	

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2738 West College Avenue

State College PA, 16801

Project Manager: David Swetland

Project: ROSEMERGY'S

Project Number: 11-17788-02

Collector: CLIENT

Number of Containers: 33

Reported:

09/08/15 08:42

Client Sample ID: MW-10

Date/Time Sampled: 08/27/15 09:20

Laboratory Sample ID: 5H28033-09 (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	1.40		1.00	ug/l	08/31/15 21:40	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	4.51		1.00	ug/l	08/31/15 21:40	EPA 8260B	wlm	
Benzene	26.9		1.00	ug/l	08/31/15 21:40	EPA 8260B	wlm	
Toluene	5.72		1.00	ug/l	08/31/15 21:40	EPA 8260B	wlm	
Ethylbenzene	3.40		1.00	ug/l	08/31/15 21:40	EPA 8260B	wlm	
Xylenes (total)	15.4		2.00	ug/l	08/31/15 21:40	EPA 8260B	wlm	
Isopropylbenzene	3.50		1.00	ug/l	08/31/15 21:40	EPA 8260B	wlm	
Methyl tert-butyl ether	106		1.00	ug/l	08/31/15 21:40	EPA 8260B	wlm	
Naphthalene	<1.00		1.00	ug/l	08/31/15 21:40	EPA 8260B	wlm	
<i>Surrogate: 4-Bromofluorobenzene</i>	95.2 %		70-130		08/31/15 21:40	EPA 8260B	wlm	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.4 %		70-130		08/31/15 21:40	EPA 8260B	wlm	
<i>Surrogate: Fluorobenzene</i>	99.3 %		70-130		08/31/15 21:40	EPA 8260B	wlm	

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2738 West College Avenue
State College PA, 16801
Project Manager: David Swetland

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33

Reported:
09/08/15 08:42

Client Sample ID: MW-11

Date/Time Sampled: 08/27/15 08:47

Laboratory Sample ID: 5H28033-10 (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	1.84		1.00	ug/l	08/28/15 20:02	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	5.99		1.00	ug/l	08/28/15 20:02	EPA 8260B	mtc	
Benzene	3.83		1.00	ug/l	08/28/15 20:02	EPA 8260B	mtc	
Toluene	6.74		1.00	ug/l	08/28/15 20:02	EPA 8260B	mtc	
Ethylbenzene	4.28		1.00	ug/l	08/28/15 20:02	EPA 8260B	mtc	
Xylenes (total)	18.9		2.00	ug/l	08/28/15 20:02	EPA 8260B	mtc	
Isopropylbenzene	1.26		1.00	ug/l	08/28/15 20:02	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/28/15 20:02	EPA 8260B	mtc	
Naphthalene	1.45		1.00	ug/l	08/28/15 20:02	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	95.7 %		70-130		08/28/15 20:02	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	88.4 %		70-130		08/28/15 20:02	EPA 8260B	mtc	
Surrogate: Fluorobenzene	87.1 %		70-130		08/28/15 20:02	EPA 8260B	mtc	

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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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Converse
2738 West College Avenue
State College PA, 16801
Project Manager: David Swetland

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
09/08/15 08:42

Client Sample ID: MW-12

Date/Time Sampled: 08/26/15 12:58

Laboratory Sample ID: 5H28033-11 (Water/Grab)

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

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	4.46		1.00	ug/l	08/28/15 20:28	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	15.7		1.00	ug/l	08/28/15 20:28	EPA 8260B	mtc	
Benzene	21.6		1.00	ug/l	08/28/15 20:28	EPA 8260B	mtc	
Toluene	42.8		1.00	ug/l	08/28/15 20:28	EPA 8260B	mtc	
Ethylbenzene	14.5		1.00	ug/l	08/28/15 20:28	EPA 8260B	mtc	
Xylenes (total)	66.5		2.00	ug/l	08/28/15 20:28	EPA 8260B	mtc	
Isopropylbenzene	2.18		1.00	ug/l	08/28/15 20:28	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/28/15 20:28	EPA 8260B	mtc	
Naphthalene	4.04		1.00	ug/l	08/28/15 20:28	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	95.4 %		70-130		08/28/15 20:28	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	86.6 %		70-130		08/28/15 20:28	EPA 8260B	mtc	
Surrogate: Fluorobenzene	86.6 %		70-130		08/28/15 20:28	EPA 8260B	mtc	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: David Swetland

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
09/08/15 08:42

Client Sample ID: MW-14

Date/Time Sampled: 08/26/15 13:01

Laboratory Sample ID: 5H28033-12 (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	2.93		1.00	ug/l	08/28/15 20:53	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	9.09		1.00	ug/l	08/28/15 20:53	EPA 8260B	mtc	
Benzene	17.4		1.00	ug/l	08/28/15 20:53	EPA 8260B	mtc	
Toluene	35.9		1.00	ug/l	08/28/15 20:53	EPA 8260B	mtc	
Ethylbenzene	11.2		1.00	ug/l	08/28/15 20:53	EPA 8260B	mtc	
Xylenes (total)	50.6		2.00	ug/l	08/28/15 20:53	EPA 8260B	mtc	
Isopropylbenzene	1.56		1.00	ug/l	08/28/15 20:53	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/28/15 20:53	EPA 8260B	mtc	
Naphthalene	2.74		1.00	ug/l	08/28/15 20:53	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	95.0 %		70-130		08/28/15 20:53	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	87.0 %		70-130		08/28/15 20:53	EPA 8260B	mtc	
Surrogate: Fluorobenzene	87.0 %		70-130		08/28/15 20:53	EPA 8260B	mtc	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: David Swetland

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported: 09/08/15 08:42

Client Sample ID: MW-15

Date/Time Sampled: 08/26/15 12:32

Laboratory Sample ID: 5H28033-13 (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	7.29		1.00	ug/l	08/28/15 21:19	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	25.3		1.00	ug/l	08/28/15 21:19	EPA 8260B	mtc	
Benzene	38.3		1.00	ug/l	08/28/15 21:19	EPA 8260B	mtc	
Toluene	62.4		1.00	ug/l	08/28/15 21:19	EPA 8260B	mtc	
Ethylbenzene	23.4		1.00	ug/l	08/28/15 21:19	EPA 8260B	mtc	
Xylenes (total)	105		2.00	ug/l	08/28/15 21:19	EPA 8260B	mtc	
Isopropylbenzene	3.86		1.00	ug/l	08/28/15 21:19	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/28/15 21:19	EPA 8260B	mtc	
Naphthalene	7.31		1.00	ug/l	08/28/15 21:19	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.8 %		70-130		08/28/15 21:19	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	88.3 %		70-130		08/28/15 21:19	EPA 8260B	mtc	
Surrogate: Fluorobenzene	86.5 %		70-130		08/28/15 21:19	EPA 8260B	mtc	

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Converse

2738 West College Avenue

State College PA, 16801

Project Manager: David Swetland

Project: ROSEMERGY'S

Project Number: 11-17788-02

Collector: CLIENT

Number of Containers: 33

Reported:

09/08/15 08:42

Client Sample ID: MW-16

Date/Time Sampled: 08/26/15 15:07

Laboratory Sample ID: 5H28033-14 (Water/Grab)

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

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	1.67		1.00	ug/l	08/28/15 21:45	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	5.27		1.00	ug/l	08/28/15 21:45	EPA 8260B	mtc	
Benzene	7.87		1.00	ug/l	08/28/15 21:45	EPA 8260B	mtc	
Toluene	11.6		1.00	ug/l	08/28/15 21:45	EPA 8260B	mtc	
Ethylbenzene	5.36		1.00	ug/l	08/28/15 21:45	EPA 8260B	mtc	
Xylenes (total)	20.7		2.00	ug/l	08/28/15 21:45	EPA 8260B	mtc	
Isopropylbenzene	1.41		1.00	ug/l	08/28/15 21:45	EPA 8260B	mtc	
Methyl tert-butyl ether	12.2		1.00	ug/l	08/28/15 21:45	EPA 8260B	mtc	
Naphthalene	1.87		1.00	ug/l	08/28/15 21:45	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.1 %		70-130		08/28/15 21:45	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	86.7 %		70-130		08/28/15 21:45	EPA 8260B	mtc	
Surrogate: Fluorobenzene	86.0 %		70-130		08/28/15 21:45	EPA 8260B	mtc	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: David Swetland

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33

Reported:
09/08/15 08:42

Client Sample ID: MW-7M

Date/Time Sampled: 08/26/15 12:03

Laboratory Sample ID: 5H28033-15 (Water/Grab)

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

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	85.8		10.0	ug/l	09/01/15 16:51	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	229		10.0	ug/l	09/01/15 16:51	EPA 8260B	wlm	
Benzene	4540		50.0	ug/l	09/03/15 00:53	EPA 8260B	wlm	
Toluene	275		10.0	ug/l	09/01/15 16:51	EPA 8260B	wlm	
Ethylbenzene	438		10.0	ug/l	09/01/15 16:51	EPA 8260B	wlm	
Xylenes (total)	849		20.0	ug/l	09/01/15 16:51	EPA 8260B	wlm	
Isopropylbenzene	90.5		10.0	ug/l	09/01/15 16:51	EPA 8260B	wlm	
Methyl tert-butyl ether	73.1		10.0	ug/l	09/01/15 16:51	EPA 8260B	wlm	
Naphthalene	127		10.0	ug/l	09/01/15 16:51	EPA 8260B	wlm	
<i>Surrogate: 4-Bromofluorobenzene</i>	92.1 %		70-130		09/01/15 16:51	EPA 8260B	wlm	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	92.7 %		70-130		09/01/15 16:51	EPA 8260B	wlm	
<i>Surrogate: Fluorobenzene</i>	104 %		70-130		09/01/15 16:51	EPA 8260B	wlm	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: David Swetland

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
09/08/15 08:42

Client Sample ID: TRIP BLANK

Date/Time Sampled: 08/26/15 00:00

Laboratory Sample ID: 5H28033-16 (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	08/28/15 22:11	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<1.00	1.00	ug/l	08/28/15 22:11	EPA 8260B	mtc
Benzene	<1.00	1.00	ug/l	08/28/15 22:11	EPA 8260B	mtc
Toluene	<1.00	1.00	ug/l	08/28/15 22:11	EPA 8260B	mtc
Ethylbenzene	<1.00	1.00	ug/l	08/28/15 22:11	EPA 8260B	mtc
Xylenes (total)	<2.00	2.00	ug/l	08/28/15 22:11	EPA 8260B	mtc
Isopropylbenzene	<1.00	1.00	ug/l	08/28/15 22:11	EPA 8260B	mtc
Methyl tert-butyl ether	<1.00	1.00	ug/l	08/28/15 22:11	EPA 8260B	mtc
Naphthalene	<1.00	1.00	ug/l	08/28/15 22:11	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	94.4 %	70-130		08/28/15 22:11	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	88.6 %	70-130		08/28/15 22:11	EPA 8260B	mtc
Surrogate: Fluorobenzene	87.3 %	70-130		08/28/15 22:11	EPA 8260B	mtc

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Converse	Project: ROSEMERGY'S	
2738 West College Avenue	Project Number: 11-17788-02	Reported:
State College PA, 16801	Collector: CLIENT	09/08/15 08:42
Project Manager: David Swetland	Number of Containers: 33	

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.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

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.



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Converse	Project: ROSEMERGY'S	
2738 West College Avenue	Project Number: 11-17788-02	Reported:
State College PA, 16801	Collector: CLIENT	09/08/15 08:42
Project Manager: David Swetland	Number of Containers: 33	

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

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

Page 1/2

5H28033

#1

PA 1 of 3

SAMPLING PLACE Rosebury

OWNER W 200 Loc

ADDRESS Hawley, PA

PROJECT NAME Rosebury

CC FIELD REP JOI

DATE 6/26 & 6/27/15

WEATHER M. Sunny 70s

PROJECT NO. 11-17786-62

ATTENTION DWS or OBC



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
							1	2	3	4	5	6	7	8	9	10				
MW-1R	11:29	7.52	Pump		3.5	Pump	40 mL HCl										4.5	3600	21.6	(2008 PHDEP Unlabeled Gas) (Shot List Target Compounds)
MW-2	10:32	4.50			4.75												6.6	1303	20.4	
MW-3	4:09	3.69			5.1												5.6	3050	19.2	
MW-4	3:41	3.71			5.3												6.7	790	20.9	
MW-5	10:57	4.50			4.9												6.7	1524	23.1	
MW-7	12:03	9.27			2.75												5.8	999	16.2	
MW-8	1:51	3.22			5.5												6.6	1443	16.5	
MW-9	2:23	1.23			6.5												6.3	1545	15.9	
MW-10	9:20	3.46			5.2												6.1	1041	17.5	
MW-11	8:47	4.44			5.0												5.8	500	17.4	
MW-12	12:58	9.39			4.6												6.1	866	18.7	
MW-14	1:01	14.80			1.9												4.5	1508	14.1	
MW-15	12:32	9.88			2.4												5.5	1270	17.4	

RELINQUISHED BY (SIGNATURE) [Signature]

DATE

TIME

RECEIVED BY (SIGNATURE) [Signature]

RECEIVING LABORATORY ADDRESS 1150

RELINQUISHED BY (SIGNATURE) [Signature]

DATE

TIME

RECEIVED BY (SIGNATURE) [Signature]

DATE RECEIVED 8-28-15

RELINQUISHED BY (SIGNATURE) [Signature]

DATE

TIME

RECEIVED BY (SIGNATURE) [Signature]

ALL SAMPLES RECD. INTACT ☐ YES ☐ NO

LIST SAMPLES MISSING/DAMAGED

ACCEPTED BY

TIME

PA

21 of 22
FIRM RESPONSIBLE FOR SAMPLING

Converse Consultants

814-234-3223
Fax 814-234-3255

ATTENTION

[illegible]

RECEIVING LABORATORY _____
 ADDRESS _____
 1150

DATE RECEIVED 8-28-75 1330 TIME _____

ALL SAMPLES REC'D. INTACT ☐ YES ☐ NO
LIST SAMPLES MISSING/DAMAGED _____

7

DISTRIBUTION: WHITE—WITH SHIPMENT TO LAB. CANARY—CONVERSE. PINK—RETAINED BY FIELD REP.

Chain of Custody Receiving Document

Page 3 of 3

Receiver: JSDate/Time of this check: 8/28/15 1355 Client: Lawrence Lab # 5H28033Received on ICE? 4 ☐ * Sample Temperature when delivered to the Lab: 62 Acceptable? 4 ☐ * or In cool down process? ☐ *Custody Seals? 4 Intact? 4COC/Labels on bottles agree? 4 ☐ * Correct containers for all the analysis requested? 4 ☐ * 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?)	
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* DEVIATION PRESENT: <input checked="" type="checkbox"/> No Ice () <input checked="" type="checkbox"/> Not at Proper Temperature () <input checked="" type="checkbox"/> Wrong Container () <input checked="" type="checkbox"/> 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: _____



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PO Box 1925
Altoona, PA 16603
(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: ROSEMERY'S
Project Number: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1R	5L11073-01	Water	Grab	12/09/15 12:20	12/11/15 14:45
MW-2	5L11073-02	Water	Grab	12/09/15 11:05	12/11/15 14:45
MW-3	5L11073-03	Water	Grab	12/09/15 11:30	12/11/15 14:45
MW-4	5L11073-04	Water	Grab	12/10/15 11:55	12/11/15 14:45
MW-5	5L11073-05	Water	Grab	12/09/15 11:55	12/11/15 14:45
MW-7	5L11073-06	Water	Grab	12/09/15 12:45	12/11/15 14:45
MW-8	5L11073-07	Water	Grab	12/09/15 16:05	12/11/15 14:45
MW-9	5L11073-08	Water	Grab	12/09/15 16:30	12/11/15 14:45
MW-10	5L11073-09	Water	Grab	12/10/15 11:30	12/11/15 14:45
MW-11	5L11073-10	Water	Grab	12/10/15 11:05	12/11/15 14:45
MW-12	5L11073-11	Water	Grab	12/09/15 14:00	12/11/15 14:45
MW-13	5L11073-12	Water	Grab	12/09/15 15:40	12/11/15 14:45
MW-14	5L11073-13	Water	Grab	12/09/15 14:50	12/11/15 14:45
MW-15	5L11073-14	Water	Grab	12/09/15 13:10	12/11/15 14:45
MW-16	5L11073-15	Water	Grab	12/10/15 10:15	12/11/15 14:45
MW-17	5L11073-16	Water	Grab	12/09/15 13:35	12/11/15 14:45
MW-18	5L11073-17	Water	Grab	12/09/15 14:25	12/11/15 14:45
MW-19	5L11073-18	Water	Grab	12/09/15 15:15	12/11/15 14:45

Fairway Laboratories, Inc.

Reviewed and Submitted by:

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Michael P. Tyler
Laboratory Director



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Pennssdale, PA 17756
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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-20	5L11073-19	Water	Grab	12/10/15 10:40	12/11/15 14:45
MW-21	5L11073-20	Water	Grab	12/10/15 09:25	12/11/15 14:45
MW-22	5L11073-21	Water	Grab	12/10/15 09:50	12/11/15 14:45
MW-1M	5L11073-22	Water	Grab	12/09/15 12:20	12/11/15 14:45
TB	5L11073-23	Water	Trip Blank	12/10/15 00:00	12/11/15 14:45

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

Project: ROSEMERGY'S
Project Number: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-1R

Date/Time Sampled: 12/09/15 12:20

Laboratory Sample ID: 5L11073-01 (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	270		50.0	ug/l	12/15/15 23:13	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	1060		50.0	ug/l	12/15/15 23:13	EPA 8260B	mtc	
Benzene	3480		50.0	ug/l	12/15/15 23:13	EPA 8260B	mtc	
Toluene	6820		100	ug/l	12/17/15 18:14	EPA 8260B	mtc	
Ethylbenzene	1180		50.0	ug/l	12/15/15 23:13	EPA 8260B	mtc	
Xylenes (total)	7380		100	ug/l	12/15/15 23:13	EPA 8260B	mtc	
Isopropylbenzene	118		50.0	ug/l	12/15/15 23:13	EPA 8260B	mtc	
Methyl tert-butyl ether	<50.0		50.0	ug/l	12/15/15 23:13	EPA 8260B	mtc	
Naphthalene	322		50.0	ug/l	12/15/15 23:13	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.1 %		70-130		12/15/15 23:13	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	84.8 %		70-130		12/15/15 23:13	EPA 8260B	mtc	
Surrogate: Fluorobenzene	88.0 %		70-130		12/15/15 23:13	EPA 8260B	mtc	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-2

Date/Time Sampled: 12/09/15 11:05

Laboratory Sample ID: 5L11073-02 (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	15.0		5.00	ug/l	12/15/15 20:59	EPA 8260B	mtc
1,2,4-Trimethylbenzene	116		5.00	ug/l	12/15/15 20:59	EPA 8260B	mtc
Benzene	78.0		5.00	ug/l	12/15/15 20:59	EPA 8260B	mtc
Toluene	127		5.00	ug/l	12/15/15 20:59	EPA 8260B	mtc
Ethylbenzene	107		5.00	ug/l	12/15/15 20:59	EPA 8260B	mtc
Xylenes (total)	120		10.0	ug/l	12/15/15 20:59	EPA 8260B	mtc
Isopropylbenzene	32.6		5.00	ug/l	12/15/15 20:59	EPA 8260B	mtc
Methyl tert-butyl ether	<5.00		5.00	ug/l	12/15/15 20:59	EPA 8260B	mtc
Naphthalene	37.3		5.00	ug/l	12/15/15 20:59	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	96.7 %		70-130		12/15/15 20:59	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	84.7 %		70-130		12/15/15 20:59	EPA 8260B	mtc
Surrogate: Fluorobenzene	86.3 %		70-130		12/15/15 20:59	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: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-3

Date/Time Sampled: 12/09/15 11:30

Laboratory Sample ID: 5L11073-03 (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	12/17/15 18:33	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	1.75		1.00	ug/l	12/17/15 18:33	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	12/17/15 18:33	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	12/17/15 18:33	EPA 8260B	mtc	
Ethylbenzene	1.11		1.00	ug/l	12/17/15 18:33	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	12/17/15 18:33	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	12/17/15 18:33	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/17/15 18:33	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	12/17/15 18:33	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	99.5 %		70-130		12/17/15 18:33	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	95.6 %		70-130		12/17/15 18:33	EPA 8260B	mtc	
Surrogate: Fluorobenzene	92.4 %		70-130		12/17/15 18:33	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-4

Date/Time Sampled: 12/10/15 11:55

Laboratory Sample ID: 5L11073-04 (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	54.6		5.00	ug/l	12/15/15 22:15	EPA 8260B	mtc
1,2,4-Trimethylbenzene	175		5.00	ug/l	12/15/15 22:15	EPA 8260B	mtc
Benzene	35.6		5.00	ug/l	12/15/15 22:15	EPA 8260B	mtc
Toluene	148		5.00	ug/l	12/15/15 22:15	EPA 8260B	mtc
Ethylbenzene	139		5.00	ug/l	12/15/15 22:15	EPA 8260B	mtc
Xylenes (total)	623		10.0	ug/l	12/15/15 22:15	EPA 8260B	mtc
Isopropylbenzene	22.0		5.00	ug/l	12/15/15 22:15	EPA 8260B	mtc
Methyl tert-butyl ether	<5.00		5.00	ug/l	12/15/15 22:15	EPA 8260B	mtc
Naphthalene	17.7		5.00	ug/l	12/15/15 22:15	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	97.7 %		70-130		12/15/15 22:15	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	83.1 %		70-130		12/15/15 22:15	EPA 8260B	mtc
Surrogate: Fluorobenzene	86.4 %		70-130		12/15/15 22:15	EPA 8260B	mtc

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-5

Date/Time Sampled: 12/09/15 11:55

Laboratory Sample ID: 5L11073-05 (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	434		50.0	ug/l	12/15/15 23:51	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	1700		50.0	ug/l	12/15/15 23:51	EPA 8260B	mtc	
Benzene	4690		50.0	ug/l	12/15/15 23:51	EPA 8260B	mtc	
Toluene	18200		500	ug/l	12/17/15 18:52	EPA 8260B	mtc	
Ethylbenzene	2500		50.0	ug/l	12/15/15 23:51	EPA 8260B	mtc	
Xylenes (total)	12200		100	ug/l	12/15/15 23:51	EPA 8260B	mtc	
Isopropylbenzene	170		50.0	ug/l	12/15/15 23:51	EPA 8260B	mtc	
Methyl tert-butyl ether	<50.0		50.0	ug/l	12/15/15 23:51	EPA 8260B	mtc	
Naphthalene	443		50.0	ug/l	12/15/15 23:51	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.3 %		70-130		12/15/15 23:51	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	84.1 %		70-130		12/15/15 23:51	EPA 8260B	mtc	
Surrogate: Fluorobenzene	87.2 %		70-130		12/15/15 23:51	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: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-7

Date/Time Sampled: 12/09/15 12:45

Laboratory Sample ID: 5L11073-06 (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	18.1		10.0	ug/l	12/15/15 21:56	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	47.5		10.0	ug/l	12/15/15 21:56	EPA 8260B	mtc	
Benzene	917		10.0	ug/l	12/15/15 21:56	EPA 8260B	mtc	
Toluene	157		10.0	ug/l	12/15/15 21:56	EPA 8260B	mtc	
Ethylbenzene	96.6		10.0	ug/l	12/15/15 21:56	EPA 8260B	mtc	
Xylenes (total)	222		20.0	ug/l	12/15/15 21:56	EPA 8260B	mtc	
Isopropylbenzene	23.0		10.0	ug/l	12/15/15 21:56	EPA 8260B	mtc	
Methyl tert-butyl ether	15.5		10.0	ug/l	12/15/15 21:56	EPA 8260B	mtc	
Naphthalene	33.2		10.0	ug/l	12/15/15 21:56	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.3 %		70-130		12/15/15 21:56	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	85.9 %		70-130		12/15/15 21:56	EPA 8260B	mtc	
Surrogate: Fluorobenzene	87.4 %		70-130		12/15/15 21:56	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: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-8

Date/Time Sampled: 12/09/15 16:05

Laboratory Sample ID: 5L11073-07 (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	12/15/15 06:52	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	2.69		1.00	ug/l	12/15/15 06:52	EPA 8260B	mtc	
Benzene	1.55		1.00	ug/l	12/15/15 06:52	EPA 8260B	mtc	
Toluene	8.10		1.00	ug/l	12/15/15 06:52	EPA 8260B	mtc	
Ethylbenzene	2.05		1.00	ug/l	12/15/15 06:52	EPA 8260B	mtc	
Xylenes (total)	11.3		2.00	ug/l	12/15/15 06:52	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	12/15/15 06:52	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/15/15 06:52	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	12/15/15 06:52	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.8 %		70-130		12/15/15 06:52	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	83.0 %		70-130		12/15/15 06:52	EPA 8260B	mtc	
Surrogate: Fluorobenzene	86.3 %		70-130		12/15/15 06:52	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: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-9

Date/Time Sampled: 12/09/15 16:30

Laboratory Sample ID: 5L11073-08 (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	15.1		10.0	ug/l	12/15/15 22:34	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	17.1		10.0	ug/l	12/15/15 22:34	EPA 8260B	mtc	
Benzene	1510		50.0	ug/l	12/17/15 17:36	EPA 8260B	mtc	
Toluene	116		10.0	ug/l	12/15/15 22:34	EPA 8260B	mtc	
Ethylbenzene	265		10.0	ug/l	12/15/15 22:34	EPA 8260B	mtc	
Xylenes (total)	98.6		20.0	ug/l	12/15/15 22:34	EPA 8260B	mtc	
Isopropylbenzene	97.1		10.0	ug/l	12/15/15 22:34	EPA 8260B	mtc	
Methyl tert-butyl ether	<10.0		10.0	ug/l	12/15/15 22:34	EPA 8260B	mtc	
Naphthalene	84.1		10.0	ug/l	12/15/15 22:34	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.0 %		70-130		12/15/15 22:34	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	85.2 %		70-130		12/15/15 22:34	EPA 8260B	mtc	
Surrogate: Fluorobenzene	86.3 %		70-130		12/15/15 22:34	EPA 8260B	mtc	

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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: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-10

Date/Time Sampled: 12/10/15 11:30

Laboratory Sample ID: 5L11073-09 (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	12/15/15 07:30	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<1.00	1.00	ug/l	12/15/15 07:30	EPA 8260B	mtc
Benzene	33.1	1.00	ug/l	12/15/15 07:30	EPA 8260B	mtc
Toluene	<1.00	1.00	ug/l	12/15/15 07:30	EPA 8260B	mtc
Ethylbenzene	<1.00	1.00	ug/l	12/15/15 07:30	EPA 8260B	mtc
Xylenes (total)	<2.00	2.00	ug/l	12/15/15 07:30	EPA 8260B	mtc
Isopropylbenzene	4.85	1.00	ug/l	12/15/15 07:30	EPA 8260B	mtc
Methyl tert-butyl ether	106	5.00	ug/l	12/15/15 20:22	EPA 8260B	mtc
Naphthalene	<1.00	1.00	ug/l	12/15/15 07:30	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	96.2 %	70-130		12/15/15 07:30	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	83.3 %	70-130		12/15/15 07:30	EPA 8260B	mtc
Surrogate: Fluorobenzene	86.3 %	70-130		12/15/15 07:30	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: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-11

Date/Time Sampled: 12/10/15 11:05

Laboratory Sample ID: 5L11073-10 (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	12/15/15 08:07	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	12/15/15 08:07	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	12/15/15 08:07	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	12/15/15 08:07	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	12/15/15 08:07	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	12/15/15 08:07	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	12/15/15 08:07	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/15/15 08:07	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	12/15/15 08:07	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.7 %		70-130		12/15/15 08:07	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	84.2 %		70-130		12/15/15 08:07	EPA 8260B	mtc	
Surrogate: Fluorobenzene	86.3 %		70-130		12/15/15 08:07	EPA 8260B	mtc	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-12

Date/Time Sampled: 12/09/15 14:00

Laboratory Sample ID: 5L11073-11 (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	2.46		1.00	ug/l	12/15/15 08:45	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	9.25		1.00	ug/l	12/15/15 08:45	EPA 8260B	mtc	
Benzene	10.2		1.00	ug/l	12/15/15 08:45	EPA 8260B	mtc	
Toluene	36.4		1.00	ug/l	12/15/15 08:45	EPA 8260B	mtc	
Ethylbenzene	7.26		1.00	ug/l	12/15/15 08:45	EPA 8260B	mtc	
Xylenes (total)	40.8		2.00	ug/l	12/15/15 08:45	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	12/15/15 08:45	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/15/15 08:45	EPA 8260B	mtc	
Naphthalene	1.66		1.00	ug/l	12/15/15 08:45	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.5 %		70-130		12/15/15 08:45	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	83.4 %		70-130		12/15/15 08:45	EPA 8260B	mtc	
Surrogate: Fluorobenzene	86.0 %		70-130		12/15/15 08:45	EPA 8260B	mtc	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-13

Date/Time Sampled: 12/09/15 15:40

Laboratory Sample ID: 5L11073-12 (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	4.34		1.00	ug/l	12/15/15 09:23	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	16.8		1.00	ug/l	12/15/15 09:23	EPA 8260B	mtc	
Benzene	15.7		1.00	ug/l	12/15/15 09:23	EPA 8260B	mtc	
Toluene	91.0		1.00	ug/l	12/15/15 09:23	EPA 8260B	mtc	
Ethylbenzene	18.0		1.00	ug/l	12/15/15 09:23	EPA 8260B	mtc	
Xylenes (total)	98.3		2.00	ug/l	12/15/15 09:23	EPA 8260B	mtc	
Isopropylbenzene	1.68		1.00	ug/l	12/15/15 09:23	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/15/15 09:23	EPA 8260B	mtc	
Naphthalene	3.68		1.00	ug/l	12/15/15 09:23	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97.3 %		70-130		12/15/15 09:23	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	84.4 %		70-130		12/15/15 09:23	EPA 8260B	mtc	
Surrogate: Fluorobenzene	86.5 %		70-130		12/15/15 09:23	EPA 8260B	mtc	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-14

Date/Time Sampled: 12/09/15 14:50

Laboratory Sample ID: 5L11073-13 (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	1.78		1.00	ug/l	12/15/15 10:01	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	6.55		1.00	ug/l	12/15/15 10:01	EPA 8260B	mtc	
Benzene	5.21		1.00	ug/l	12/15/15 10:01	EPA 8260B	mtc	
Toluene	23.0		1.00	ug/l	12/15/15 10:01	EPA 8260B	mtc	
Ethylbenzene	5.14		1.00	ug/l	12/15/15 10:01	EPA 8260B	mtc	
Xylenes (total)	28.6		2.00	ug/l	12/15/15 10:01	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	12/15/15 10:01	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/15/15 10:01	EPA 8260B	mtc	
Naphthalene	1.24		1.00	ug/l	12/15/15 10:01	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.9 %		70-130		12/15/15 10:01	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	85.1 %		70-130		12/15/15 10:01	EPA 8260B	mtc	
Surrogate: Fluorobenzene	86.1 %		70-130		12/15/15 10:01	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-03
Collector: CLIENT
Number of Containers: 45

Reported:
12/18/15 12:40

Client Sample ID: MW-15

Date/Time Sampled: 12/09/15 13:10

Laboratory Sample ID: 5L11073-14 (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	5.37		1.00	ug/l	12/15/15 10:39	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	20.2		1.00	ug/l	12/15/15 10:39	EPA 8260B	mtc	
Benzene	22.8		1.00	ug/l	12/15/15 10:39	EPA 8260B	mtc	
Toluene	70.2		1.00	ug/l	12/15/15 10:39	EPA 8260B	mtc	
Ethylbenzene	15.2		1.00	ug/l	12/15/15 10:39	EPA 8260B	mtc	
Xylenes (total)	87.9		2.00	ug/l	12/15/15 10:39	EPA 8260B	mtc	
Isopropylbenzene	1.92		1.00	ug/l	12/15/15 10:39	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/15/15 10:39	EPA 8260B	mtc	
Naphthalene	3.98		1.00	ug/l	12/15/15 10:39	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98.0 %		70-130		12/15/15 10:39	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	84.7 %		70-130		12/15/15 10:39	EPA 8260B	mtc	
Surrogate: Fluorobenzene	86.5 %		70-130		12/15/15 10:39	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-16

Date/Time Sampled: 12/10/15 10:15

Laboratory Sample ID: 5L11073-15 (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	12/15/15 11:17	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	12/15/15 11:17	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	12/15/15 11:17	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	12/15/15 11:17	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	12/15/15 11:17	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	12/15/15 11:17	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	12/15/15 11:17	EPA 8260B	mtc	
Methyl tert-butyl ether	6.72		1.00	ug/l	12/15/15 11:17	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	12/15/15 11:17	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	95.9 %		70-130		12/15/15 11:17	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	83.4 %		70-130		12/15/15 11:17	EPA 8260B	mtc	
Surrogate: Fluorobenzene	85.8 %		70-130		12/15/15 11:17	EPA 8260B	mtc	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-03
Collector: CLIENT
Number of Containers: 45

Reported:
12/18/15 12:40

Client Sample ID: MW-17

Date/Time Sampled: 12/09/15 13:35

Laboratory Sample ID: 5L11073-16 (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	3.57		1.00	ug/l	12/15/15 01:09	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	12.8		1.00	ug/l	12/15/15 01:09	EPA 8260B	mtc	
Benzene	14.5		1.00	ug/l	12/15/15 01:09	EPA 8260B	mtc	
Toluene	46.8		1.00	ug/l	12/15/15 01:09	EPA 8260B	mtc	
Ethylbenzene	9.92		1.00	ug/l	12/15/15 01:09	EPA 8260B	mtc	
Xylenes (total)	56.3		2.00	ug/l	12/15/15 01:09	EPA 8260B	mtc	
Isopropylbenzene	1.22		1.00	ug/l	12/15/15 01:09	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/15/15 01:09	EPA 8260B	mtc	
Naphthalene	2.24		1.00	ug/l	12/15/15 01:09	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.9 %		70-130		12/15/15 01:09	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	82.9 %		70-130		12/15/15 01:09	EPA 8260B	mtc	
Surrogate: Fluorobenzene	86.2 %		70-130		12/15/15 01:09	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-18

Date/Time Sampled: 12/09/15 14:25

Laboratory Sample ID: 5L11073-17 (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	2.29		1.00	ug/l	12/14/15 18:29	EPA 8260B	mtc
1,2,4-Trimethylbenzene	8.47		1.00	ug/l	12/14/15 18:29	EPA 8260B	mtc
Benzene	7.27		1.00	ug/l	12/14/15 18:29	EPA 8260B	mtc
Toluene	29.5		1.00	ug/l	12/14/15 18:29	EPA 8260B	mtc
Ethylbenzene	6.63		1.00	ug/l	12/14/15 18:29	EPA 8260B	mtc
Xylenes (total)	37.3		2.00	ug/l	12/14/15 18:29	EPA 8260B	mtc
Isopropylbenzene	<1.00		1.00	ug/l	12/14/15 18:29	EPA 8260B	mtc
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/14/15 18:29	EPA 8260B	mtc
Naphthalene	1.58		1.00	ug/l	12/14/15 18:29	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	95.8 %		70-130		12/14/15 18:29	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	86.7 %		70-130		12/14/15 18:29	EPA 8260B	mtc
Surrogate: Fluorobenzene	84.9 %		70-130		12/14/15 18:29	EPA 8260B	mtc

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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



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: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-19

Date/Time Sampled: 12/09/15 15:15

Laboratory Sample ID: 5L11073-18 (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	12/17/15 20:07	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	3.64		2.00	ug/l	12/17/15 20:07	EPA 8260B	mtc	
Benzene	2.96		2.00	ug/l	12/17/15 20:07	EPA 8260B	mtc	
Toluene	12.1		2.00	ug/l	12/17/15 20:07	EPA 8260B	mtc	
Ethylbenzene	2.82		2.00	ug/l	12/17/15 20:07	EPA 8260B	mtc	
Xylenes (total)	15.9		4.00	ug/l	12/17/15 20:07	EPA 8260B	mtc	
Isopropylbenzene	<2.00		2.00	ug/l	12/17/15 20:07	EPA 8260B	mtc	
Methyl tert-butyl ether	<2.00		2.00	ug/l	12/17/15 20:07	EPA 8260B	mtc	
Naphthalene	<2.00		2.00	ug/l	12/17/15 20:07	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98.4 %		70-130		12/17/15 20:07	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	95.6 %		70-130		12/17/15 20:07	EPA 8260B	mtc	
Surrogate: Fluorobenzene	93.1 %		70-130		12/17/15 20:07	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: 11-17788-03
Collector: CLIENT
Number of Containers: 45

Reported:
12/18/15 12:40

Client Sample ID: MW-20

Date/Time Sampled: 12/10/15 10:40

Laboratory Sample ID: 5L11073-19 (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	12/14/15 19:45	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	12/14/15 19:45	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	12/14/15 19:45	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	12/14/15 19:45	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	12/14/15 19:45	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	12/14/15 19:45	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	12/14/15 19:45	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/14/15 19:45	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	12/14/15 19:45	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97.2 %		70-130		12/14/15 19:45	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	84.9 %		70-130		12/14/15 19:45	EPA 8260B	mtc	
Surrogate: Fluorobenzene	85.9 %		70-130		12/14/15 19:45	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: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-21

Date/Time Sampled: 12/10/15 09:25

Laboratory Sample ID: 5L11073-20 (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	12/14/15 20:23	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<1.00	1.00	ug/l	12/14/15 20:23	EPA 8260B	mtc
Benzene	<1.00	1.00	ug/l	12/14/15 20:23	EPA 8260B	mtc
Toluene	<1.00	1.00	ug/l	12/14/15 20:23	EPA 8260B	mtc
Ethylbenzene	<1.00	1.00	ug/l	12/14/15 20:23	EPA 8260B	mtc
Xylenes (total)	<2.00	2.00	ug/l	12/14/15 20:23	EPA 8260B	mtc
Isopropylbenzene	<1.00	1.00	ug/l	12/14/15 20:23	EPA 8260B	mtc
Methyl tert-butyl ether	<1.00	1.00	ug/l	12/14/15 20:23	EPA 8260B	mtc
Naphthalene	<1.00	1.00	ug/l	12/14/15 20:23	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	96.1 %	70-130		12/14/15 20:23	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	84.5 %	70-130		12/14/15 20:23	EPA 8260B	mtc
Surrogate: Fluorobenzene	86.9 %	70-130		12/14/15 20:23	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: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-22

Date/Time Sampled: 12/10/15 09:50

Laboratory Sample ID: 5L11073-21 (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	12/14/15 21:01	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	12/14/15 21:01	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	12/14/15 21:01	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	12/14/15 21:01	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	12/14/15 21:01	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	12/14/15 21:01	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	12/14/15 21:01	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/14/15 21:01	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	12/14/15 21:01	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	94.1 %		70-130		12/14/15 21:01	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	83.1 %		70-130		12/14/15 21:01	EPA 8260B	mtc	
Surrogate: Fluorobenzene	86.3 %		70-130		12/14/15 21:01	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: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: MW-1M

Date/Time Sampled: 12/09/15 12:20

Laboratory Sample ID: 5L11073-22 (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	297		5.00	ug/l	12/15/15 22:53	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	1090		100	ug/l	12/17/15 17:17	EPA 8260B	mtc	
Benzene	4130		100	ug/l	12/17/15 17:17	EPA 8260B	mtc	
Toluene	6910		100	ug/l	12/17/15 17:17	EPA 8260B	mtc	
Ethylbenzene	1310		100	ug/l	12/17/15 17:17	EPA 8260B	mtc	
Xylenes (total)	8110		200	ug/l	12/17/15 17:17	EPA 8260B	mtc	
Isopropylbenzene	138		5.00	ug/l	12/15/15 22:53	EPA 8260B	mtc	
Methyl tert-butyl ether	5.80		5.00	ug/l	12/15/15 22:53	EPA 8260B	mtc	
Naphthalene	313		5.00	ug/l	12/15/15 22:53	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98.5 %		70-130		12/15/15 22:53	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	81.9 %		70-130		12/15/15 22:53	EPA 8260B	mtc	
Surrogate: Fluorobenzene	87.0 %		70-130		12/15/15 22:53	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: 11-17788-03
Collector: CLIENT
Number of Containers: 45
Reported:
12/18/15 12:40

Client Sample ID: TB

Date/Time Sampled: 12/10/15 00:00

Laboratory Sample ID: 5L11073-23 (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	12/14/15 21:39	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	12/14/15 21:39	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	12/14/15 21:39	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	12/14/15 21:39	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	12/14/15 21:39	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	12/14/15 21:39	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	12/14/15 21:39	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	12/14/15 21:39	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	12/14/15 21:39	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	95.4 %		70-130		12/14/15 21:39	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	82.9 %		70-130		12/14/15 21:39	EPA 8260B	mtc	
Surrogate: Fluorobenzene	85.8 %		70-130		12/14/15 21:39	EPA 8260B	mtc	

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State Certifications: MD 275, WV 364

Converse	Project: ROSEMERGY'S	
2738 West College Avenue	Project Number: 11-17788-03	Reported:
State College PA, 16801	Collector: CLIENT	12/18/15 12:40
Project Manager: Orion Cook	Number of Containers: 45	

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.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

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.



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Converse	Project: ROSEMERGY'S	
2738 West College Avenue	Project Number: 11-17788-03	Reported:
State College PA, 16801	Collector: CLIENT	12/18/15 12:40
Project Manager: Orion Cook	Number of Containers: 45	

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

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

PA

SAMPLING PLACE Rosebury CC FIELD REP. 107 FIRM RESPONSIBLE FOR SAMPLING
OWNER Woodlawn DATE 12/9 & 12/10/15 **Converse Consultants**
ADDRESS Rte 590, Hawley, PA WEATHER P. Sunny 32s-40s / Sunny, 50s 2738 West College Avenue
PROJECT NO. 11-17188-03 PROJECT NO. 11-17188-03 State College, Pennsylvania 16801
ATTENTION DWS or OBC 814-234-3223
PROJECT NAME Rosebury 814-234-3255

52-11073 #1

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-1R	12:20	6.21	Pump		4.1	Pump	40 mL HCl		4.8	3370	14.9	(PADEP 2008 Unlabeled Gas Short)
2 MW-2	11:05	3.65			5.1				6.7	1519	13.0	List Target Compounds
3 MW-3	11:30	2.67			5.6				8.0	253	9.7	
2/104 MW-4	11:55	3.40			5.4				7.2	589	11.1	
5 MW-5	11:55	3.92			5.2				6.9	1766	11.3	
6 MW-7	12:15	7.82			3.5				6.1	720	14.6	
7 MW-8	4:05	2.46			5.9				6.8	928	10.9	
8 MW-9	4:30	0.50			6.8				6.7	1784	10.7	
12/10 MW-10	11:30	2.83			5.9				5.7	1162	11.1	
12/10 MW-11	11:05	2.52			5.0				6.0	578	11.5	
11 MW-12	2:00	4.23			5.0				6.3	531	12.1	
12 MW-13	3:40	12.72			1.0				6.2	360	11.9	
13 MW-14	2:50	13.30			2.6				4.9	401	13.8	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	RECEIVING LABORATORY
<u>[Signature]</u>	12/11/15	10:58	<u>[Signature]</u>	ADDRESS
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	
<u>[Signature]</u>	12/11	1350	<u>[Signature]</u>	DATE RECEIVED
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	TIME
<u>[Signature]</u>	12/11/15	1445	<u>[Signature]</u>	ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO

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

SAMPLING PLACE

SAMPLING
Rosowfrey

OWNER

OWNER ADDRESS

PROJECT NAME

CC FIELD REP;

DATE _____

WEATHER

PROJECT NO.

ATTENTION

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 mols/cm.)	TEMP °C	ANALYSIS REQUEST / COMMENTS	
MW-15	1:10	8.61	Pump	3.0	Pump									5.2	2060	13.6	(PADEP 2008 Unlabeled Gas Short)
MW-16	10:15	0.74		6.7										5.6	1382	10.4	(List Target Compounds)
MW-17	1:35	5.72		4.4										4.9	1428	12.0	
MW-18	2:25	11.09		3.3										5.8	397	12.6	
MW-19	3:15	12.22		2.3										5.4	1035	12.8	
MW-20	10:40	1.42		6.3										7.1	427	10.6	
MW-21	9:25	1.59		5.6										5.8	776	9.5	
MW-22	9:50	0.79		6.8										5.4	656	9.9	
MW-IM	12:00	6.21		4.1										4.8	3370	14.9	
TB																	

RECEIVING LABORATORY

ADDRESS

RECEIVED BY (SIGNATURE)

TIME

DATE _____

RELINQUISHED BY (SIGNATURE)

RECEIVED BY (SIGNATURE)

TIME

DATE _____

RELINQUISHED BY (SIGNATURE)

DATE RECEIVED

DATE:

1-1

32

三

2

ALL SAMPLES REC'D. INTACT ☐ YES ☐ NO

LIST SAMPLES MISSING/DAMAGED

ACCEPTED BY

Chain of Custody Receiving Document

Receiver: B. BarabesPage 3 of 3Date/Time of this check: 12:11:15 Client: CONVERSE CORP. Lab # 5711073 # 3Received on ICE? ☒ * Sample Temperature when delivered to the Lab: 0.3 Acceptable? ☒ * or In cool down process? ☐ *
Custody Seals? ☒ Intact? ☒ Matrix: water

(Not applicable for WV compliance)

COC/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	Amber Non-Pres.	Poly NaOH	VOCS (Head space?)	Other		Properly Preserved
									<input type="checkbox"/> *	
1							2-HCl			
2									NA	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23								1-TB		
24										
25										
26										
27										
28										
29										
30										

* DEVIATION PRESENT: <input checked="" type="checkbox"/> No Ice () <input type="checkbox"/> Not at Proper Temperature () <input type="checkbox"/> Wrong Container () <input type="checkbox"/> Missing Information: ()	CLIENT CALLED: YES () By Whom: _____ Date: _____	CLIENT RESPONSE: Proceed with analysis; qualify data () Will Resample () Provided Information () No Response; Proceed and qualified () Client Contact: _____ Date: _____
--	---	--

* Comments: _____



2019 Ninth Avenue
PO Box 1925
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(814) 946-4306
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89 Kristi Road
Pennsdale, 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: 11-777-88-02
Collector: CLIENT
Number of Containers: 28

Reported:
04/07/15 16:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1R	5C27037-01	Water	Grab	03/25/15 12:21	03/27/15 14:30
MW-2	5C27037-02	Water	Grab	03/25/15 10:31	03/27/15 14:30
MW-3	5C27037-03	Water	Grab	03/25/15 10:55	03/27/15 14:30
MW-4	5C27037-04	Water	Grab	03/25/15 16:56	03/27/15 14:30
MW-5	5C27037-05	Water	Grab	03/25/15 11:23	03/27/15 14:30
MW-7	5C27037-06	Water	Grab	03/25/15 11:51	03/27/15 14:30
MW-8	5C27037-07	Water	Grab	03/25/15 14:48	03/27/15 14:30
MW-9	5C27037-08	Water	Grab	03/25/15 15:15	03/27/15 14:30
MW-10	5C27037-09	Water	Grab	03/25/15 16:28	03/27/15 14:30
MW-11	5C27037-10	Water	Grab	03/25/15 15:24	03/27/15 14:30
MW-12	5C27037-11	Water	Grab	03/25/15 14:15	03/27/15 14:30
MW-14	5C27037-12	Water	Grab	03/25/15 13:13	03/27/15 14:30
MW-15	5C27037-13	Water	Grab	03/25/15 13:42	03/27/15 14:30
MW-1M	5C27037-14	Water	Grab	03/25/15 12:21	03/27/15 14:30
TRIP BLANK	5C27037-15	Water	Trip Blank	03/25/15 00:00	03/27/15 14:30

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: 11-777-88-02
Collector: CLIENT
Number of Containers: 28

Reported:
04/07/15 16:57

Client Sample ID: MW-1R

Date/Time Sampled: 03/25/15 12:21

Laboratory Sample ID: 5C27037-01 (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	279		50.0	ug/l	04/01/15 19:40	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	981		50.0	ug/l	04/01/15 19:40	EPA 8260B	wlm	
Benzene	4500		50.0	ug/l	04/01/15 19:40	EPA 8260B	wlm	
Toluene	5620		100	ug/l	04/03/15 00:50	EPA 8260B	wlm	
Ethylbenzene	1650		50.0	ug/l	04/01/15 19:40	EPA 8260B	wlm	
Xylenes (total)	9130		100	ug/l	04/01/15 19:40	EPA 8260B	wlm	
Isopropylbenzene	158		50.0	ug/l	04/01/15 19:40	EPA 8260B	wlm	
Methyl tert-butyl ether	<50.0		50.0	ug/l	04/01/15 19:40	EPA 8260B	wlm	
Naphthalene	107		50.0	ug/l	04/01/15 19:40	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	101 %		70-130		04/01/15 19:40	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	100 %		70-130		04/01/15 19:40	EPA 8260B	wlm	
Surrogate: Fluorobenzene	101 %		70-130		04/01/15 19:40	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: 11-777-88-02
Collector: CLIENT
Number of Containers: 28
Reported:
04/07/15 16:57

Client Sample ID: MW-2

Date/Time Sampled: 03/25/15 10:31

Laboratory Sample ID: 5C27037-02 (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	<5.00	5.00	ug/l	04/01/15 19:12	EPA 8260B	wlm
1,2,4-Trimethylbenzene	15.8	5.00	ug/l	04/01/15 19:12	EPA 8260B	wlm
Benzene	22.8	5.00	ug/l	04/01/15 19:12	EPA 8260B	wlm
Toluene	16.1	5.00	ug/l	04/01/15 19:12	EPA 8260B	wlm
Ethylbenzene	18.2	5.00	ug/l	04/01/15 19:12	EPA 8260B	wlm
Xylenes (total)	29.6	10.0	ug/l	04/01/15 19:12	EPA 8260B	wlm
Isopropylbenzene	<5.00	5.00	ug/l	04/01/15 19:12	EPA 8260B	wlm
Methyl tert-butyl ether	<5.00	5.00	ug/l	04/01/15 19:12	EPA 8260B	wlm
Naphthalene	14.6	5.00	ug/l	04/01/15 19:12	EPA 8260B	wlm
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130		04/01/15 19:12	EPA 8260B	wlm
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/01/15 19:12	EPA 8260B	wlm
Surrogate: Fluorobenzene	99.1 %	70-130		04/01/15 19:12	EPA 8260B	wlm

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-777-88-02
Collector: CLIENT
Number of Containers: 28

Reported:
04/07/15 16:57

Client Sample ID: MW-3

Date/Time Sampled: 03/25/15 10:55

Laboratory Sample ID: 5C27037-03 (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	03/31/15 19:52	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<5.00		5.00	ug/l	03/31/15 19:52	EPA 8260B	wlm	
Benzene	2.40		0.70	ug/l	03/31/15 19:52	EPA 8260B	wlm	2m
Toluene	<5.00		5.00	ug/l	03/31/15 19:52	EPA 8260B	wlm	
Ethylbenzene	<5.00		5.00	ug/l	03/31/15 19:52	EPA 8260B	wlm	
Xylenes (total)	<10.0		10.0	ug/l	03/31/15 19:52	EPA 8260B	wlm	
Isopropylbenzene	<5.00		5.00	ug/l	03/31/15 19:52	EPA 8260B	wlm	
Methyl tert-butyl ether	30.9		5.00	ug/l	03/31/15 19:52	EPA 8260B	wlm	
Naphthalene	<5.00		5.00	ug/l	03/31/15 19:52	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	95.3 %		70-130		03/31/15 19:52	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	94.3 %		70-130		03/31/15 19:52	EPA 8260B	wlm	
Surrogate: Fluorobenzene	102 %		70-130		03/31/15 19:52	EPA 8260B	wlm	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-777-88-02
Collector: CLIENT
Number of Containers: 28

Reported:
04/07/15 16:57

Client Sample ID: MW-4

Date/Time Sampled: 03/25/15 16:56

Laboratory Sample ID: 5C27037-04 (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	1.16		1.00	ug/l	03/31/15 07:42	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	1.96		1.00	ug/l	03/31/15 07:42	EPA 8260B	mtc	
Benzene	6.60		1.00	ug/l	03/31/15 07:42	EPA 8260B	mtc	
Toluene	10.1		1.00	ug/l	03/31/15 07:42	EPA 8260B	mtc	
Ethylbenzene	2.92		1.00	ug/l	03/31/15 07:42	EPA 8260B	mtc	
Xylenes (total)	12.5		2.00	ug/l	03/31/15 07:42	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	03/31/15 07:42	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/31/15 07:42	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	03/31/15 07:42	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	101 %		70-130		03/31/15 07:42	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	95.9 %		70-130		03/31/15 07:42	EPA 8260B	mtc	
Surrogate: Fluorobenzene	81.2 %		70-130		03/31/15 07:42	EPA 8260B	mtc	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-777-88-02
Collector: CLIENT
Number of Containers: 28
Reported:
04/07/15 16:57

Client Sample ID: MW-5

Date/Time Sampled: 03/25/15 11:23

Laboratory Sample ID: 5C27037-05 (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	437		25.0	ug/l	03/31/15 21:16	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	1680		25.0	ug/l	03/31/15 21:16	EPA 8260B	wlm	
Benzene	3960		250	ug/l	04/01/15 18:44	EPA 8260B	wlm	
Toluene	13600		250	ug/l	04/01/15 18:44	EPA 8260B	wlm	
Ethylbenzene	2740		25.0	ug/l	03/31/15 21:16	EPA 8260B	wlm	
Xylenes (total)	9460		500	ug/l	04/01/15 18:44	EPA 8260B	wlm	
Isopropylbenzene	197		25.0	ug/l	03/31/15 21:16	EPA 8260B	wlm	
Methyl tert-butyl ether	33.5		25.0	ug/l	03/31/15 21:16	EPA 8260B	wlm	
Naphthalene	331		25.0	ug/l	03/31/15 21:16	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	100 %		70-130		03/31/15 21:16	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	95.0 %		70-130		03/31/15 21:16	EPA 8260B	wlm	
Surrogate: Fluorobenzene	105 %		70-130		03/31/15 21:16	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: 11-777-88-02
Collector: CLIENT
Number of Containers: 28
Reported:
04/07/15 16:57

Client Sample ID: MW-7

Date/Time Sampled: 03/25/15 11:51

Laboratory Sample ID: 5C27037-06 (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	<25.0		25.0	ug/l	03/31/15 21:44	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	50.0		25.0	ug/l	03/31/15 21:44	EPA 8260B	wlm	
Benzene	884		25.0	ug/l	03/31/15 21:44	EPA 8260B	wlm	
Toluene	300		25.0	ug/l	03/31/15 21:44	EPA 8260B	wlm	
Ethylbenzene	120		25.0	ug/l	03/31/15 21:44	EPA 8260B	wlm	
Xylenes (total)	293		50.0	ug/l	03/31/15 21:44	EPA 8260B	wlm	
Isopropylbenzene	<25.0		25.0	ug/l	03/31/15 21:44	EPA 8260B	wlm	
Methyl tert-butyl ether	<25.0		25.0	ug/l	03/31/15 21:44	EPA 8260B	wlm	
Naphthalene	<25.0		25.0	ug/l	03/31/15 21:44	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	96.0 %		70-130		03/31/15 21:44	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	96.4 %		70-130		03/31/15 21:44	EPA 8260B	wlm	
Surrogate: Fluorobenzene	103 %		70-130		03/31/15 21:44	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: 11-777-88-02
Collector: CLIENT
Number of Containers: 28

Reported:
04/07/15 16:57

Client Sample ID: MW-8

Date/Time Sampled: 03/25/15 14:48

Laboratory Sample ID: 5C27037-07 (Water/Grab)

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

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	1.55		1.00	ug/l	03/31/15 08:20	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	5.42		1.00	ug/l	03/31/15 08:20	EPA 8260B	mtc	
Benzene	14.7		1.00	ug/l	03/31/15 08:20	EPA 8260B	mtc	
Toluene	35.2		1.00	ug/l	03/31/15 08:20	EPA 8260B	mtc	
Ethylbenzene	7.47		1.00	ug/l	03/31/15 08:20	EPA 8260B	mtc	
Xylenes (total)	37.2		2.00	ug/l	03/31/15 08:20	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	03/31/15 08:20	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/31/15 08:20	EPA 8260B	mtc	
Naphthalene	1.00		1.00	ug/l	03/31/15 08:20	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	100 %		70-130		03/31/15 08:20	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	99.9 %		70-130		03/31/15 08:20	EPA 8260B	mtc	
Surrogate: Fluorobenzene	83.2 %		70-130		03/31/15 08:20	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: 11-777-88-02
Collector: CLIENT
Number of Containers: 28

Reported:
04/07/15 16:57

Client Sample ID: MW-9

Date/Time Sampled: 03/25/15 15:15

Laboratory Sample ID: 5C27037-08 (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	<10.0		10.0	ug/l	03/31/15 20:20	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	<10.0		10.0	ug/l	03/31/15 20:20	EPA 8260B	wlm	
Benzene	853		10.0	ug/l	03/31/15 20:20	EPA 8260B	wlm	
Toluene	80.9		10.0	ug/l	03/31/15 20:20	EPA 8260B	wlm	
Ethylbenzene	66.0		10.0	ug/l	03/31/15 20:20	EPA 8260B	wlm	
Xylenes (total)	66.0		20.0	ug/l	03/31/15 20:20	EPA 8260B	wlm	
Isopropylbenzene	38.9		10.0	ug/l	03/31/15 20:20	EPA 8260B	wlm	
Methyl tert-butyl ether	11.3		10.0	ug/l	03/31/15 20:20	EPA 8260B	wlm	
Naphthalene	14.7		10.0	ug/l	03/31/15 20:20	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	96.0 %		70-130		03/31/15 20:20	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	94.1 %		70-130		03/31/15 20:20	EPA 8260B	wlm	
Surrogate: Fluorobenzene	103 %		70-130		03/31/15 20:20	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: 11-777-88-02
Collector: CLIENT
Number of Containers: 28
Reported:
04/07/15 16:57

Client Sample ID: MW-10

Date/Time Sampled: 03/25/15 16:28

Laboratory Sample ID: 5C27037-09 (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	03/31/15 09:36	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	2.63		1.00	ug/l	03/31/15 09:36	EPA 8260B	mtc	
Benzene	13.9		1.00	ug/l	03/31/15 09:36	EPA 8260B	mtc	
Toluene	14.6		1.00	ug/l	03/31/15 09:36	EPA 8260B	mtc	
Ethylbenzene	3.71		1.00	ug/l	03/31/15 09:36	EPA 8260B	mtc	
Xylenes (total)	17.0		2.00	ug/l	03/31/15 09:36	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	03/31/15 09:36	EPA 8260B	mtc	
Methyl tert-butyl ether	23.8		1.00	ug/l	03/31/15 09:36	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	03/31/15 09:36	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	101 %		70-130		03/31/15 09:36	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	97.8 %		70-130		03/31/15 09:36	EPA 8260B	mtc	
Surrogate: Fluorobenzene	81.4 %		70-130		03/31/15 09:36	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: 11-777-88-02
Collector: CLIENT
Number of Containers: 28
Reported:
04/07/15 16:57

Client Sample ID: MW-11

Date/Time Sampled: 03/25/15 15:24

Laboratory Sample ID: 5C27037-10 (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	1.80		1.00	ug/l	03/31/15 10:14	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	6.30		1.00	ug/l	03/31/15 10:14	EPA 8260B	mtc	
Benzene	32.1		1.00	ug/l	03/31/15 10:14	EPA 8260B	mtc	
Toluene	50.5		1.00	ug/l	03/31/15 10:14	EPA 8260B	mtc	
Ethylbenzene	12.0		1.00	ug/l	03/31/15 10:14	EPA 8260B	mtc	
Xylenes (total)	52.7		2.00	ug/l	03/31/15 10:14	EPA 8260B	mtc	
Isopropylbenzene	1.47		1.00	ug/l	03/31/15 10:14	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/31/15 10:14	EPA 8260B	mtc	
Naphthalene	1.52		1.00	ug/l	03/31/15 10:14	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	101 %		70-130		03/31/15 10:14	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	98.0 %		70-130		03/31/15 10:14	EPA 8260B	mtc	
Surrogate: Fluorobenzene	81.9 %		70-130		03/31/15 10:14	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: 11-777-88-02
Collector: CLIENT
Number of Containers: 28

Reported:
04/07/15 16:57

Client Sample ID: MW-12

Date/Time Sampled: 03/25/15 14:15

Laboratory Sample ID: 5C27037-11 (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	2.32		1.00	ug/l	03/31/15 02:00	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	8.32		1.00	ug/l	03/31/15 02:00	EPA 8260B	mtc	
Benzene	26.2		1.00	ug/l	03/31/15 02:00	EPA 8260B	mtc	2b
Toluene	59.8		1.00	ug/l	03/31/15 02:00	EPA 8260B	mtc	
Ethylbenzene	12.1		1.00	ug/l	03/31/15 02:00	EPA 8260B	mtc	
Xylenes (total)	60.0		2.00	ug/l	03/31/15 02:00	EPA 8260B	mtc	
Isopropylbenzene	1.08		1.00	ug/l	03/31/15 02:00	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/31/15 02:00	EPA 8260B	mtc	
Naphthalene	1.63		1.00	ug/l	03/31/15 02:00	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	99.9 %		70-130		03/31/15 02:00	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	92.2 %		70-130		03/31/15 02:00	EPA 8260B	mtc	
Surrogate: Fluorobenzene	81.2 %		70-130		03/31/15 02:00	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-777-88-02
Collector: CLIENT
Number of Containers: 28
Reported:
04/07/15 16:57

Client Sample ID: MW-14

Date/Time Sampled: 03/25/15 13:13

Laboratory Sample ID: 5C27037-12 (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	6.21		1.00	ug/l	03/31/15 10:52	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	21.3		1.00	ug/l	03/31/15 10:52	EPA 8260B	mtc	
Benzene	62.9		1.00	ug/l	03/31/15 10:52	EPA 8260B	mtc	
Toluene	95.6		5.00	ug/l	03/31/15 20:19	EPA 8260B	mtc	
Ethylbenzene	28.2		1.00	ug/l	03/31/15 10:52	EPA 8260B	mtc	
Xylenes (total)	147		2.00	ug/l	03/31/15 10:52	EPA 8260B	mtc	
Isopropylbenzene	2.93		1.00	ug/l	03/31/15 10:52	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/31/15 10:52	EPA 8260B	mtc	
Naphthalene	3.73		1.00	ug/l	03/31/15 10:52	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	103 %		70-130		03/31/15 10:52	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	97.7 %		70-130		03/31/15 10:52	EPA 8260B	mtc	
Surrogate: Fluorobenzene	81.9 %		70-130		03/31/15 10:52	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: 11-777-88-02
Collector: CLIENT
Number of Containers: 28

Reported:
04/07/15 16:57

Client Sample ID: MW-15

Date/Time Sampled: 03/25/15 13:42

Laboratory Sample ID: 5C27037-13 (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	3.06		1.00	ug/l	03/31/15 11:30	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	10.6		1.00	ug/l	03/31/15 11:30	EPA 8260B	mtc	
Benzene	29.1		1.00	ug/l	03/31/15 11:30	EPA 8260B	mtc	
Toluene	61.2		1.00	ug/l	03/31/15 11:30	EPA 8260B	mtc	
Ethylbenzene	13.4		1.00	ug/l	03/31/15 11:30	EPA 8260B	mtc	
Xylenes (total)	68.0		2.00	ug/l	03/31/15 11:30	EPA 8260B	mtc	
Isopropylbenzene	1.23		1.00	ug/l	03/31/15 11:30	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/31/15 11:30	EPA 8260B	mtc	
Naphthalene	1.91		1.00	ug/l	03/31/15 11:30	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	101 %		70-130		03/31/15 11:30	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	102 %		70-130		03/31/15 11:30	EPA 8260B	mtc	
Surrogate: Fluorobenzene	82.8 %		70-130		03/31/15 11:30	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: 11-777-88-02
Collector: CLIENT
Number of Containers: 28
Reported:
04/07/15 16:57

Client Sample ID: MW-1M

Date/Time Sampled: 03/25/15 12:21

Laboratory Sample ID: 5C27037-14 (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	294		50.0	ug/l	04/01/15 20:08	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	997		50.0	ug/l	04/01/15 20:08	EPA 8260B	wlm	
Benzene	4600		50.0	ug/l	04/01/15 20:08	EPA 8260B	wlm	
Toluene	5830		100	ug/l	04/03/15 01:17	EPA 8260B	wlm	
Ethylbenzene	1650		50.0	ug/l	04/01/15 20:08	EPA 8260B	wlm	
Xylenes (total)	9150		100	ug/l	04/01/15 20:08	EPA 8260B	wlm	
Isopropylbenzene	158		50.0	ug/l	04/01/15 20:08	EPA 8260B	wlm	
Methyl tert-butyl ether	<50.0		50.0	ug/l	04/01/15 20:08	EPA 8260B	wlm	
Naphthalene	98.5		50.0	ug/l	04/01/15 20:08	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	102 %		70-130		04/01/15 20:08	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	99.5 %		70-130		04/01/15 20:08	EPA 8260B	wlm	
Surrogate: Fluorobenzene	101 %		70-130		04/01/15 20:08	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: 11-777-88-02
Collector: CLIENT
Number of Containers: 28
Reported:
04/07/15 16:57

Client Sample ID: TRIP BLANK

Date/Time Sampled: 03/25/15 00:00

Laboratory Sample ID: 5C27037-15 (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	03/31/15 12:45	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	03/31/15 12:45	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	03/31/15 12:45	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	03/31/15 12:45	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	03/31/15 12:45	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	03/31/15 12:45	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	03/31/15 12:45	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	03/31/15 12:45	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	03/31/15 12:45	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	99.8 %		70-130		03/31/15 12:45	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	98.7 %		70-130		03/31/15 12:45	EPA 8260B	mtc	
Surrogate: Fluorobenzene	82.9 %		70-130		03/31/15 12:45	EPA 8260B	mtc	

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Converse

Project: ROSEMERGY'S

2738 West College Avenue

Project Number: 11-777-88-02

Reported:

State College PA, 16801

Collector: CLIENT

04/07/15 16:57

Project Manager: Orion Cook

Number of Containers: 28

Notes

- 2b The spike recovery was outside acceptance limits for the MS and/or MSD. Data accepted based on acceptable LCS recovery.
- 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.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

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.

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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: 11-777-88-02

Collector: CLIENT

Number of Containers: 28

Reported:

04/07/15 16:57

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

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Page 1/2

5027037

#1

#1

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

SAMPLING PLACE Rosemery
 OWNER Woodloch
 ADDRESS Hawley, PA
 PROJECT NAME Rosemery
 CC FIELD REP 101
 DATE 3/25/15
 WEATHER Rainy 80s
 PROJECT NO. 11-17766-02
 ATTENTION DWS or OBC



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
1 MW-1R	12:21	5.20	Pump		4.7	Pump	40 ml HCl		5.3	1270	5.0	2008 PADI-P Unpacked GWS
2 MW-2	10:31	2.80			5.6				6.8	3670	5.8	Short List
3 MW-3	10:55	2.14			5.8				7.4	216	4.5	
4 MW-4	4:56	1.70			6.2				7.0	2380	2.7	
5 MW-5	11:23	2.78			5.8				6.5	9660	3.5	
6 MW-7	11:51	6.60			4.1				6.4	311	7.4	
7 MW-6	2:46	2.67			5.8				6.6	2880	5.0	
8 MW-9	3:13	0.40			6.9				6.6	1530	4.5	
9 MW-10	4:28	2.09			5.9				5.8	1165	4.5	
10 MW-11	3:54	4.00			5.2				6.0	616	5.5	
11 MW-12	2:15	3.80			5.2				5.9	3050	5.1	
12 MW-14	1:13	11.69			3.4				5.1	1086	7.7	
13 MW-15	1:42	7.37			3.6				5.7	812	6.0	

RELINQUISHED BY (SIGNATURE) <i>John J. Turk</i>	DATE 3/27/15	TIME	RECEIVED BY (SIGNATURE) <i>John J. Turk</i>	DATE 3/27/15	TIME
RELINQUISHED BY (SIGNATURE) <i>Debra L. ...</i>	DATE 3/27/15	TIME	RECEIVED BY (SIGNATURE) <i>Debra L. ...</i>	DATE 3/27/15	TIME
RELINQUISHED BY (SIGNATURE) <i>Debra L. ...</i>	DATE 3/27/15	TIME	RECEIVED BY (SIGNATURE) <i>Debra L. ...</i>	DATE 3/27/15	TIME


DATE RECEIVED	TIME
ALL SAMPLES REC'D. INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO	
LIST SAMPLES MISSING/DAMAGED	
ACCEPTED BY	

DISTRIBUTION: WHITE--WITH SHIPMENT TO LAB. CANARY--CONVERSE. PINK--RETAINED BY FIELD REP

PA

FIRM RESPONSIBLE FOR SAMPLING

Converse Consultants
2738 West College Avenue
State College, Pennsylvania 16801
814-234-3223
Fax 814-234-3255

[illegible]

Chain of Custody Receiving Document 3 of 3

Receiver: CB

Page of

Date/Time of this check: 3/27 14:40 Client: Converse

Lab # 5C27037

Received on ICE? Y ☐ * Sample Temperature when delivered to the Lab: 0.6 Acceptable? Y ☐ * or In cool down process? ☐ *
Custody Seals? Y Intact? Y

COC/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 <input type="checkbox"/> *	Properly Preserved <input type="checkbox"/> *	Bacti	
1							24hr				
↓							↓				
14											
TRIP							1 hr				
									N/A		
	</										

<p>* DEVIATION PRESENT:</p> <p><input checked="" type="checkbox"/> No Ice ()</p> <p><input checked="" type="checkbox"/> Not at Proper Temperature ()</p> <p><input checked="" type="checkbox"/> Wrong Container ()</p> <p><input checked="" type="checkbox"/> Missing Information: ()</p>	<p>CLIENT CALLED:</p> <p>By Whom: _____</p> <p>Date: _____</p>	<p>CLIENT RESPONSE:</p> <p>Proceed with analysis; quality data ()</p> <p>Will Resample ()</p> <p>Provided Information ()</p> <p>No Response; Proceed and qualified ()</p> <p>Client Contact: _____</p> <p>Date: _____</p>
--	---	--

* Comments: TRIP Black NG on Ccc.



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PO Box 1925
Altoona, PA 16603
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(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: 11-7788-03
Collector: CLIENT
Number of Containers: 21
Reported:
02/01/16 10:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-9	6A22094-01	Water	Grab	01/20/16 14:43	01/22/16 14:10
MW-15	6A22094-02	Water	Grab	01/20/16 14:17	01/22/16 14:10
MW-16	6A22094-03	Water	Grab	01/20/16 13:03	01/22/16 14:10
MW-17	6A22094-04	Water	Grab	01/20/16 13:47	01/22/16 14:10
MW-18	6A22094-05	Water	Grab	01/20/16 12:36	01/22/16 14:10
MW-19	6A22094-06	Water	Grab	01/20/16 12:02	01/22/16 14:10
MW-20	6A22094-07	Water	Grab	01/20/16 11:28	01/22/16 14:10
MW-21	6A22094-08	Water	Grab	01/20/16 10:50	01/22/16 14:10
MW-22	6A22094-09	Water	Grab	01/20/16 10:23	01/22/16 14:10
MW-22M	6A22094-10	Water	Grab	01/20/16 10:25	01/22/16 14:10
TB	6A22094-11	Water	Trip Blank	01/20/16 00:00	01/22/16 14:10

Refer to receiving document. CB

Fairway Laboratories, Inc.

Reviewed and Submitted by:

Michael P. Tyler
Laboratory Director

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Converse
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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-7788-03
Collector: CLIENT
Number of Containers: 21

Reported:
02/01/16 10:38

Client Sample ID: MW-9

Date/Time Sampled: 01/20/16 14:43

Laboratory Sample ID: 6A22094-01 (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	16.7		10.0	ug/l	01/27/16 08:58	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	10.2		10.0	ug/l	01/27/16 08:58	EPA 8260B	wlm	
Benzene	1600		50.0	ug/l	01/28/16 04:53	EPA 8260B	wlm	
Toluene	96.8		10.0	ug/l	01/27/16 08:58	EPA 8260B	wlm	
Ethylbenzene	244		10.0	ug/l	01/27/16 08:58	EPA 8260B	wlm	
Xylenes (total)	67.1		20.0	ug/l	01/27/16 08:58	EPA 8260B	wlm	
Isopropylbenzene	89.5		10.0	ug/l	01/27/16 08:58	EPA 8260B	wlm	
Methyl tert-butyl ether	<10.0		10.0	ug/l	01/27/16 08:58	EPA 8260B	wlm	
Naphthalene	78.6		10.0	ug/l	01/27/16 08:58	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	97.3 %		70-130		01/27/16 08:58	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	98.0 %		70-130		01/27/16 08:58	EPA 8260B	wlm	
Surrogate: Fluorobenzene	101 %		70-130		01/27/16 08:58	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: 11-7788-03
Collector: CLIENT
Number of Containers: 21
Reported:
02/01/16 10:38

Client Sample ID: MW-15

Date/Time Sampled: 01/20/16 14:17

Laboratory Sample ID: 6A22094-02 (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	01/26/16 18:32	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	01/26/16 18:32	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	01/26/16 18:32	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	01/26/16 18:32	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	01/26/16 18:32	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	01/26/16 18:32	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	01/26/16 18:32	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	01/26/16 18:32	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	01/26/16 18:32	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	92.9 %		70-130		01/26/16 18:32	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	91.5 %		70-130		01/26/16 18:32	EPA 8260B	mtc	
Surrogate: Fluorobenzene	94.0 %		70-130		01/26/16 18:32	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-7788-03
Collector: CLIENT
Number of Containers: 21

Reported:
02/01/16 10:38

Client Sample ID: MW-16

Date/Time Sampled: 01/20/16 13:03

Laboratory Sample ID: 6A22094-03 (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	01/25/16 15:53	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	01/25/16 15:53	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	01/25/16 15:53	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	01/25/16 15:53	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	01/25/16 15:53	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	01/25/16 15:53	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	01/25/16 15:53	EPA 8260B	mtc	
Methyl tert-butyl ether	8.11		1.00	ug/l	01/25/16 15:53	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	01/25/16 15:53	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	93.0 %		70-130		01/25/16 15:53	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	89.5 %		70-130		01/25/16 15:53	EPA 8260B	mtc	
Surrogate: Fluorobenzene	93.7 %		70-130		01/25/16 15:53	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-7788-03
Collector: CLIENT
Number of Containers: 21

Reported:
02/01/16 10:38

Client Sample ID: MW-17

Date/Time Sampled: 01/20/16 13:47

Laboratory Sample ID: 6A22094-04 (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	01/26/16 18:58	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	01/26/16 18:58	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	01/26/16 18:58	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	01/26/16 18:58	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	01/26/16 18:58	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	01/26/16 18:58	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	01/26/16 18:58	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	01/26/16 18:58	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	01/26/16 18:58	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	93.4 %		70-130		01/26/16 18:58	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	91.7 %		70-130		01/26/16 18:58	EPA 8260B	mtc	
Surrogate: Fluorobenzene	95.6 %		70-130		01/26/16 18:58	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-7788-03
Collector: CLIENT
Number of Containers: 21

Reported:
02/01/16 10:38

Client Sample ID: MW-18

Date/Time Sampled: 01/20/16 12:36

Laboratory Sample ID: 6A22094-05 (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	01/26/16 19:23	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	01/26/16 19:23	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	01/26/16 19:23	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	01/26/16 19:23	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	01/26/16 19:23	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	01/26/16 19:23	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	01/26/16 19:23	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	01/26/16 19:23	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	01/26/16 19:23	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	93.5 %		70-130		01/26/16 19:23	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	92.5 %		70-130		01/26/16 19:23	EPA 8260B	mtc	
Surrogate: Fluorobenzene	95.7 %		70-130		01/26/16 19:23	EPA 8260B	mtc	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-7788-03
Collector: CLIENT
Number of Containers: 21

Reported:
02/01/16 10:38

Client Sample ID: MW-19

Date/Time Sampled: 01/20/16 12:02

Laboratory Sample ID: 6A22094-06 (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	01/26/16 19:49	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	01/26/16 19:49	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	01/26/16 19:49	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	01/26/16 19:49	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	01/26/16 19:49	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	01/26/16 19:49	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	01/26/16 19:49	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	01/26/16 19:49	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	01/26/16 19:49	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	92.1 %		70-130		01/26/16 19:49	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	91.8 %		70-130		01/26/16 19:49	EPA 8260B	mtc	
Surrogate: Fluorobenzene	95.0 %		70-130		01/26/16 19:49	EPA 8260B	mtc	

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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



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: 11-7788-03
Collector: CLIENT
Number of Containers: 21

Reported:
02/01/16 10:38

Client Sample ID: MW-20

Date/Time Sampled: 01/20/16 11:28

Laboratory Sample ID: 6A22094-07 (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	01/25/16 16:31	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	01/25/16 16:31	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	01/25/16 16:31	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	01/25/16 16:31	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	01/25/16 16:31	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	01/25/16 16:31	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	01/25/16 16:31	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	01/25/16 16:31	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	01/25/16 16:31	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	93.5 %		70-130		01/25/16 16:31	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	90.2 %		70-130		01/25/16 16:31	EPA 8260B	mtc	
Surrogate: Fluorobenzene	93.6 %		70-130		01/25/16 16:31	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: 11-7788-03
Collector: CLIENT
Number of Containers: 21

Reported:
02/01/16 10:38

Client Sample ID: MW-21

Date/Time Sampled: 01/20/16 10:50

Laboratory Sample ID: 6A22094-08 (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	01/25/16 17:10	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	01/25/16 17:10	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	01/25/16 17:10	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	01/25/16 17:10	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	01/25/16 17:10	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	01/25/16 17:10	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	01/25/16 17:10	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	01/25/16 17:10	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	01/25/16 17:10	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	94.1 %		70-130		01/25/16 17:10	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	90.3 %		70-130		01/25/16 17:10	EPA 8260B	mtc	
Surrogate: Fluorobenzene	94.5 %		70-130		01/25/16 17:10	EPA 8260B	mtc	

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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: 11-7788-03
Collector: CLIENT
Number of Containers: 21

Reported:
02/01/16 10:38

Client Sample ID: MW-22

Date/Time Sampled: 01/20/16 10:23

Laboratory Sample ID: 6A22094-09 (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	01/25/16 17:48	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	01/25/16 17:48	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	01/25/16 17:48	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	01/25/16 17:48	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	01/25/16 17:48	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	01/25/16 17:48	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	01/25/16 17:48	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	01/25/16 17:48	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	01/25/16 17:48	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	92.8 %		70-130		01/25/16 17:48	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	89.0 %		70-130		01/25/16 17:48	EPA 8260B	mtc	
Surrogate: Fluorobenzene	93.4 %		70-130		01/25/16 17:48	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: 11-7788-03
Collector: CLIENT
Number of Containers: 21

Reported:
02/01/16 10:38

Client Sample ID: MW-22M

Date/Time Sampled: 01/20/16 10:25

Laboratory Sample ID: 6A22094-10 (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	01/25/16 18:27	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	01/25/16 18:27	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	01/25/16 18:27	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	01/25/16 18:27	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	01/25/16 18:27	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	01/25/16 18:27	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	01/25/16 18:27	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	01/25/16 18:27	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	01/25/16 18:27	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	94.1 %		70-130		01/25/16 18:27	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	90.4 %		70-130		01/25/16 18:27	EPA 8260B	mtc	
Surrogate: Fluorobenzene	93.8 %		70-130		01/25/16 18:27	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: 11-7788-03
Collector: CLIENT
Number of Containers: 21
Reported:
02/01/16 10:38

Client Sample ID: TB

Date/Time Sampled: 01/20/16 00:00

Laboratory Sample ID: 6A22094-11 (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	01/25/16 19:05	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	01/25/16 19:05	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	01/25/16 19:05	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	01/25/16 19:05	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	01/25/16 19:05	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	01/25/16 19:05	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	01/25/16 19:05	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	01/25/16 19:05	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	01/25/16 19:05	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	93.6 %		70-130		01/25/16 19:05	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	90.7 %		70-130		01/25/16 19:05	EPA 8260B	mtc	
Surrogate: Fluorobenzene	94.5 %		70-130		01/25/16 19:05	EPA 8260B	mtc	

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State Certifications: MD 275, WV 364

Converse	Project: ROSEMERGY'S	
2738 West College Avenue	Project Number: 11-7788-03	Reported:
State College PA, 16801	Collector: CLIENT	02/01/16 10:38
Project Manager: Orion Cook	Number of Containers: 21	

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.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

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.



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State Certifications: MD 275, WV 364

Converse

Project: ROSEMERGY'S

2738 West College Avenue

Project Number: 11-7788-03

Reported:

State College PA, 16801

Collector: CLIENT

02/01/16 10:38

Project Manager: Orion Cook

Number of Containers: 21

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.


WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

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SAMPLING, CHAIN OF CUSTODY AND ANALYSES RECORD FOR SOIL, GROUNDWATER AND AIR MONITORING **PA** **6A220044**
 #1
 SAMPLING PLACE MARKET AT WOODLOCK
 OWNER WOODLOCK
 ADDRESS HAWLEY, PA
 PROJECT NAME ROSE MERGY
 DATE 1-22-16 CC FIELD REP JPF
 WEATHER SUNNY, LOW TEENS
 PROJECT NO. 11-17488-03
 ATTENTION DWS, 62 08C
 FIRM RESPONSIBLE FOR SAMPLING

Converse Consultants
 2738 West College Avenue
 State College, Pennsylvania 16801
 814-234-3223
 Fax 814-234-3255
 10F2

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-9	2:13	9.9	PUMP	6.2	PUMP	2	40ml	HOL								7.9	1588	7.9	2008 PA DEP Unleaded
2 MW-15	2:17	7.34		7.												5.6	1482	10.5	gas short list. Target compounds
3 MW-16	2:03	.8														5.9	1305	6.8	
4 MW-17	1:49	5.01		4												4.9	2.2	8.7	
5 MW-18	1:26	10.65		3												5.8	240	10.4	
6 MW-19	12:02	11.44		2												5.5	801	10.8	
7 MW-20	11:28	1.01		2												6.9	932	7.0	
8 MW-21	10:50	1.66	✓	2.5												5.8	639	5.1	
9 MW-22	10:23	.82		2.5												5.8	609	6.8	
10 MW-22M	10:25	.82		1.5												5.0	609	6.8	
TB	-	-	-	-												-	-	-	✓

RELINQUISHED BY (SIGNATURE) [Signature] DATE 1/22/16 TIME 11:20 RECEIVED BY (SIGNATURE) [Signature]
 RELINQUISHED BY (SIGNATURE) [Signature] DATE 1/22/16 TIME 12:45 RECEIVED BY (SIGNATURE) [Signature]
 RELINQUISHED BY (SIGNATURE) [Signature] DATE 1-22-16 TIME 1410 RECEIVED BY (SIGNATURE) [Signature]

RECEIVING LABORATORY FAIRBURY LAB
 ADDRESS 2019 9th St
Atwood, PA 16602
 DATE RECEIVED 1-22-16 TIME 1410
 ALL SAMPLES REC'D. INTACT ☐ YES ☐ NO
 LIST SAMPLES MISSING/DAMAGED 1-22-16
 ACCEPTED BY [Signature]

DISTRIBUTION: WHITE—WITH SHIPMENT TO LAB. CANARY—CONVERSE. PINK—RETAINED BY FIELD REP.

Chain of Custody Receiving Document

Receiver: *B. B. Smith*

Document 22
Page of

Date/Time of this check: 1-22-16

1515

Client:

25

CONVERSE CONSULTING LAB #

6A22094

乙

Received on ICE? Y ☐

Sample Temperature when delivered to the Lab: 1.3 Acceptable? ☒ * or In cool down process? ☐ *

Custody Seals? Y Intact? Y

COC/Labels on bottles agree? ☒ *

Correct containers for all the analysis requested? ☒ ☐ * Matrix: water

(Not applicable for WV compliance)

[illegible]

*** DEVIATION PRESENT:**

- Ⓢ No Ice ()
- Ⓢ Not at Proper Temperature ()
- Ⓢ Wrong Container ()
- Ⓢ Missing Information: ()

CLIENT CALLED:

YES ()
By Whom:

Date: _____

CLIENT RESPONSE:

- | | |
|-------------------------------------|-----|
| Proceed with analysis; qualify data | () |
| Will Resample | () |
| Provided Information | () |
| No Response; Proceed and qualified | () |

Client Contact: _____ **Date:** _____

* Comments: DATE ON COL PGAS 1/22 - BOTTLES PGAS 1/20



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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: 33
Reported:
07/08/15 10:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1R	5F29049-01	Water	Grab	06/25/15 13:01	06/29/15 17:30
MW-2	5F29049-02	Water	Grab	06/25/15 11:21	06/29/15 17:30
MW-3	5F29049-03	Water	Grab	06/25/15 11:48	06/29/15 17:30
MW-4	5F29049-04	Water	Grab	06/26/15 10:46	06/29/15 17:30
MW-5	5F29049-05	Water	Grab	06/25/15 12:20	06/29/15 17:30
MW-5M	5F29049-06	Water	Grab	06/25/15 12:20	06/29/15 17:30
MW-7	5F29049-07	Water	Grab	06/25/15 13:29	06/29/15 17:30
MW-8	5F29049-08	Water	Grab	06/25/15 16:07	06/29/15 17:30
MW-9	5F29049-09	Water	Grab	06/25/15 16:34	06/29/15 17:30
MW-10	5F29049-10	Water	Grab	06/26/15 10:20	06/29/15 17:30
MW-11	5F29049-11	Water	Grab	06/26/15 09:48	06/29/15 17:30
MW-12	5F29049-12	Water	Grab	06/25/15 14:31	06/29/15 17:30
MW-13	5F29049-13	Water	Grab	06/25/15 15:31	06/29/15 17:30
MW-14	5F29049-14	Water	Grab	06/25/15 15:02	06/29/15 17:30
MW-15	5F29049-15	Water	Grab	06/25/15 14:03	06/29/15 17:30
MW-16	5F29049-16	Water	Grab	06/25/15 17:12	06/29/15 17:30
TRIP BLANK	5F29049-17	Water	Trip Blank	06/25/15 00:00	06/29/15 17:30

Fairway Laboratories, Inc.

Reviewed and Submitted by:

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Michael P. Tyler
Laboratory Director

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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: 33

Reported:

07/08/15 10:06



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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: 33
Reported:
07/08/15 10:06

Client Sample ID: MW-1R

Date/Time Sampled: 06/25/15 13:01

Laboratory Sample ID: 5F29049-01 (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	265		50.0	ug/l	07/03/15 02:50	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	996		50.0	ug/l	07/03/15 02:50	EPA 8260B	mtc	
Benzene	4230		50.0	ug/l	07/03/15 02:50	EPA 8260B	mtc	
Toluene	4490		50.0	ug/l	07/03/15 02:50	EPA 8260B	mtc	
Ethylbenzene	1390		50.0	ug/l	07/03/15 02:50	EPA 8260B	mtc	
Xylenes (total)	7170		100	ug/l	07/03/15 02:50	EPA 8260B	mtc	
Isopropylbenzene	152		50.0	ug/l	07/03/15 02:50	EPA 8260B	mtc	
Methyl tert-butyl ether	<50.0		50.0	ug/l	07/03/15 02:50	EPA 8260B	mtc	
Naphthalene	239		50.0	ug/l	07/03/15 02:50	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97.4 %		70-130		07/03/15 02:50	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	85.6 %		70-130		07/03/15 02:50	EPA 8260B	mtc	
Surrogate: Fluorobenzene	83.4 %		70-130		07/03/15 02:50	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported: 07/08/15 10:06

Client Sample ID: MW-2

Date/Time Sampled: 06/25/15 11:21

Laboratory Sample ID: 5F29049-02 (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	<5.00		5.00	ug/l	07/03/15 05:59	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	28.7		5.00	ug/l	07/03/15 05:59	EPA 8260B	mtc	
Benzene	41.8		5.00	ug/l	07/03/15 05:59	EPA 8260B	mtc	
Toluene	43.6		5.00	ug/l	07/03/15 05:59	EPA 8260B	mtc	
Ethylbenzene	38.2		5.00	ug/l	07/03/15 05:59	EPA 8260B	mtc	
Xylenes (total)	50.2		10.0	ug/l	07/03/15 05:59	EPA 8260B	mtc	
Isopropylbenzene	9.40		5.00	ug/l	07/03/15 05:59	EPA 8260B	mtc	
Methyl tert-butyl ether	<5.00		5.00	ug/l	07/03/15 05:59	EPA 8260B	mtc	
Naphthalene	31.2		5.00	ug/l	07/03/15 05:59	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	95.1 %		70-130		07/03/15 05:59	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	82.7 %		70-130		07/03/15 05:59	EPA 8260B	mtc	
Surrogate: Fluorobenzene	83.2 %		70-130		07/03/15 05:59	EPA 8260B	mtc	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33

Reported:
07/08/15 10:06

Client Sample ID: MW-3

Date/Time Sampled: 06/25/15 11:48

Laboratory Sample ID: 5F29049-03 (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	07/02/15 14:49	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/02/15 14:49	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	07/02/15 14:49	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	07/02/15 14:49	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	07/02/15 14:49	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	07/02/15 14:49	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	07/02/15 14:49	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/02/15 14:49	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	07/02/15 14:49	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	95.4 %		70-130		07/02/15 14:49	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	86.9 %		70-130		07/02/15 14:49	EPA 8260B	mtc	
Surrogate: Fluorobenzene	82.2 %		70-130		07/02/15 14:49	EPA 8260B	mtc	

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Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
07/08/15 10:06

Client Sample ID: MW-4

Date/Time Sampled: 06/26/15 10:46

Laboratory Sample ID: 5F29049-04 (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	1.90		1.00	ug/l	07/02/15 15:27	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	4.89		1.00	ug/l	07/02/15 15:27	EPA 8260B	mtc	
Benzene	4.29		1.00	ug/l	07/02/15 15:27	EPA 8260B	mtc	
Toluene	10.6		1.00	ug/l	07/02/15 15:27	EPA 8260B	mtc	
Ethylbenzene	4.15		1.00	ug/l	07/02/15 15:27	EPA 8260B	mtc	
Xylenes (total)	20.7		2.00	ug/l	07/02/15 15:27	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	07/02/15 15:27	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/02/15 15:27	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	07/02/15 15:27	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97.4 %		70-130		07/02/15 15:27	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	87.0 %		70-130		07/02/15 15:27	EPA 8260B	mtc	
Surrogate: Fluorobenzene	82.5 %		70-130		07/02/15 15:27	EPA 8260B	mtc	

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Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
07/08/15 10:06

Client Sample ID: MW-5

Date/Time Sampled: 06/25/15 12:20

Laboratory Sample ID: 5F29049-05 (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	388		50.0	ug/l	07/03/15 03:27	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	1510		50.0	ug/l	07/03/15 03:27	EPA 8260B	mtc	
Benzene	5450		50.0	ug/l	07/03/15 03:27	EPA 8260B	mtc	
Toluene	16600		500	ug/l	07/06/15 19:52	EPA 8260B	mtc	
Ethylbenzene	2430		50.0	ug/l	07/03/15 03:27	EPA 8260B	mtc	
Xylenes (total)	10900		100	ug/l	07/03/15 03:27	EPA 8260B	mtc	
Isopropylbenzene	168		50.0	ug/l	07/03/15 03:27	EPA 8260B	mtc	
Methyl tert-butyl ether	<50.0		50.0	ug/l	07/03/15 03:27	EPA 8260B	mtc	
Naphthalene	376		50.0	ug/l	07/03/15 03:27	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97.7 %		70-130		07/03/15 03:27	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	85.0 %		70-130		07/03/15 03:27	EPA 8260B	mtc	
Surrogate: Fluorobenzene	82.5 %		70-130		07/03/15 03:27	EPA 8260B	mtc	

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Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported: 07/08/15 10:06

Client Sample ID: MW-5M

Date/Time Sampled: 06/25/15 12:20

Laboratory Sample ID: 5F29049-06 (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	370		5.00	ug/l	07/03/15 04:43	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	2460		500	ug/l	07/06/15 20:30	EPA 8260B	mtc	
Benzene	11200		500	ug/l	07/06/15 20:30	EPA 8260B	mtc	
Toluene	33700		500	ug/l	07/06/15 20:30	EPA 8260B	mtc	
Ethylbenzene	4420		500	ug/l	07/06/15 20:30	EPA 8260B	mtc	
Xylenes (total)	20800		1000	ug/l	07/06/15 20:30	EPA 8260B	mtc	
Isopropylbenzene	175		5.00	ug/l	07/03/15 04:43	EPA 8260B	mtc	
Methyl tert-butyl ether	34.6		5.00	ug/l	07/03/15 04:43	EPA 8260B	mtc	
Naphthalene	436		5.00	ug/l	07/03/15 04:43	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97.1 %		70-130		07/03/15 04:43	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	81.0 %		70-130		07/03/15 04:43	EPA 8260B	mtc	
Surrogate: Fluorobenzene	82.7 %		70-130		07/03/15 04:43	EPA 8260B	mtc	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
07/08/15 10:06

Client Sample ID: MW-7

Date/Time Sampled: 06/25/15 13:29

Laboratory Sample ID: 5F29049-07 (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	<25.0		25.0	ug/l	07/03/15 04:05	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	60.5		25.0	ug/l	07/03/15 04:05	EPA 8260B	mtc	
Benzene	582		25.0	ug/l	07/03/15 04:05	EPA 8260B	mtc	
Toluene	193		25.0	ug/l	07/03/15 04:05	EPA 8260B	mtc	
Ethylbenzene	90.5		25.0	ug/l	07/03/15 04:05	EPA 8260B	mtc	
Xylenes (total)	314		50.0	ug/l	07/03/15 04:05	EPA 8260B	mtc	
Isopropylbenzene	<25.0		25.0	ug/l	07/03/15 04:05	EPA 8260B	mtc	
Methyl tert-butyl ether	<25.0		25.0	ug/l	07/03/15 04:05	EPA 8260B	mtc	
Naphthalene	<25.0		25.0	ug/l	07/03/15 04:05	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.4 %		70-130		07/03/15 04:05	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	86.1 %		70-130		07/03/15 04:05	EPA 8260B	mtc	
Surrogate: Fluorobenzene	84.6 %		70-130		07/03/15 04:05	EPA 8260B	mtc	

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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
07/08/15 10:06

Client Sample ID: MW-8

Date/Time Sampled: 06/25/15 16:07

Laboratory Sample ID: 5F29049-08 (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	1.54		1.00	ug/l	07/02/15 16:05	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	5.52		1.00	ug/l	07/02/15 16:05	EPA 8260B	mtc	
Benzene	7.09		1.00	ug/l	07/02/15 16:05	EPA 8260B	mtc	
Toluene	18.7		1.00	ug/l	07/02/15 16:05	EPA 8260B	mtc	
Ethylbenzene	5.14		1.00	ug/l	07/02/15 16:05	EPA 8260B	mtc	
Xylenes (total)	26.5		2.00	ug/l	07/02/15 16:05	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	07/02/15 16:05	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/02/15 16:05	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	07/02/15 16:05	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98.2 %		70-130		07/02/15 16:05	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	88.2 %		70-130		07/02/15 16:05	EPA 8260B	mtc	
Surrogate: Fluorobenzene	83.7 %		70-130		07/02/15 16:05	EPA 8260B	mtc	

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Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33

Reported:
07/08/15 10:06

Client Sample ID: MW-9

Date/Time Sampled: 06/25/15 16:34

Laboratory Sample ID: 5F29049-09 (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	40.6		10.0	ug/l	07/03/15 05:21	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	65.4		10.0	ug/l	07/03/15 05:21	EPA 8260B	mtc	
Benzene	1050		10.0	ug/l	07/03/15 05:21	EPA 8260B	mtc	
Toluene	178		10.0	ug/l	07/03/15 05:21	EPA 8260B	mtc	
Ethylbenzene	152		10.0	ug/l	07/03/15 05:21	EPA 8260B	mtc	
Xylenes (total)	298		20.0	ug/l	07/03/15 05:21	EPA 8260B	mtc	
Isopropylbenzene	82.8		10.0	ug/l	07/03/15 05:21	EPA 8260B	mtc	
Methyl tert-butyl ether	<10.0		10.0	ug/l	07/03/15 05:21	EPA 8260B	mtc	
Naphthalene	69.2		10.0	ug/l	07/03/15 05:21	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.0 %		70-130		07/03/15 05:21	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	83.2 %		70-130		07/03/15 05:21	EPA 8260B	mtc	
Surrogate: Fluorobenzene	85.3 %		70-130		07/03/15 05:21	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: CLIENT
Number of Containers: 33

Reported:
07/08/15 10:06

Client Sample ID: MW-10

Date/Time Sampled: 06/26/15 10:20

Laboratory Sample ID: 5F29049-10 (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	1.09		1.00	ug/l	07/02/15 16:43	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	5.03		1.00	ug/l	07/02/15 16:43	EPA 8260B	mtc	
Benzene	49.7		1.00	ug/l	07/02/15 16:43	EPA 8260B	mtc	
Toluene	9.98		1.00	ug/l	07/02/15 16:43	EPA 8260B	mtc	
Ethylbenzene	3.24		1.00	ug/l	07/02/15 16:43	EPA 8260B	mtc	
Xylenes (total)	16.0		2.00	ug/l	07/02/15 16:43	EPA 8260B	mtc	
Isopropylbenzene	6.08		1.00	ug/l	07/02/15 16:43	EPA 8260B	mtc	
Methyl tert-butyl ether	116		1.00	ug/l	07/02/15 16:43	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	07/02/15 16:43	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.7 %		70-130		07/02/15 16:43	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	85.4 %		70-130		07/02/15 16:43	EPA 8260B	mtc	
Surrogate: Fluorobenzene	81.9 %		70-130		07/02/15 16:43	EPA 8260B	mtc	

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

89 Kristi Road
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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: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
07/08/15 10:06

Client Sample ID: MW-11

Date/Time Sampled: 06/26/15 09:48

Laboratory Sample ID: 5F29049-11 (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	1.31		1.00	ug/l	07/02/15 17:20	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	4.01		1.00	ug/l	07/02/15 17:20	EPA 8260B	mtc	
Benzene	5.65		1.00	ug/l	07/02/15 17:20	EPA 8260B	mtc	
Toluene	11.8		1.00	ug/l	07/02/15 17:20	EPA 8260B	mtc	
Ethylbenzene	3.93		1.00	ug/l	07/02/15 17:20	EPA 8260B	mtc	
Xylenes (total)	18.4		2.00	ug/l	07/02/15 17:20	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	07/02/15 17:20	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/02/15 17:20	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	07/02/15 17:20	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.5 %		70-130		07/02/15 17:20	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	86.5 %		70-130		07/02/15 17:20	EPA 8260B	mtc	
Surrogate: Fluorobenzene	83.2 %		70-130		07/02/15 17:20	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: CLIENT
Number of Containers: 33
Reported: 07/08/15 10:06

Client Sample ID: MW-12

Date/Time Sampled: 06/25/15 14:31

Laboratory Sample ID: 5F29049-12 (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	4.65		1.00	ug/l	07/02/15 17:58	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	17.7		1.00	ug/l	07/02/15 17:58	EPA 8260B	mtc	
Benzene	21.2		1.00	ug/l	07/02/15 17:58	EPA 8260B	mtc	
Toluene	53.6		1.00	ug/l	07/02/15 17:58	EPA 8260B	mtc	
Ethylbenzene	16.8		1.00	ug/l	07/02/15 17:58	EPA 8260B	mtc	
Xylenes (total)	86.5		2.00	ug/l	07/02/15 17:58	EPA 8260B	mtc	
Isopropylbenzene	2.07		1.00	ug/l	07/02/15 17:58	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/02/15 17:58	EPA 8260B	mtc	
Naphthalene	3.39		1.00	ug/l	07/02/15 17:58	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97.1 %		70-130		07/02/15 17:58	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	85.4 %		70-130		07/02/15 17:58	EPA 8260B	mtc	
Surrogate: Fluorobenzene	83.0 %		70-130		07/02/15 17:58	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33
Reported:
07/08/15 10:06

Client Sample ID: MW-13

Date/Time Sampled: 06/25/15 15:31

Laboratory Sample ID: 5F29049-13 (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	1.93		1.00	ug/l	07/02/15 19:52	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	6.84		1.00	ug/l	07/02/15 19:52	EPA 8260B	mtc	
Benzene	10.3		1.00	ug/l	07/02/15 19:52	EPA 8260B	mtc	
Toluene	24.8		1.00	ug/l	07/02/15 19:52	EPA 8260B	mtc	
Ethylbenzene	6.67		1.00	ug/l	07/02/15 19:52	EPA 8260B	mtc	
Xylenes (total)	33.9		2.00	ug/l	07/02/15 19:52	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	07/02/15 19:52	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/02/15 19:52	EPA 8260B	mtc	
Naphthalene	1.19		1.00	ug/l	07/02/15 19:52	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97.0 %		70-130		07/02/15 19:52	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	88.4 %		70-130		07/02/15 19:52	EPA 8260B	mtc	
Surrogate: Fluorobenzene	83.8 %		70-130		07/02/15 19:52	EPA 8260B	mtc	

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Converse
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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 33

Reported:
07/08/15 10:06

Client Sample ID: MW-14

Date/Time Sampled: 06/25/15 15:02

Laboratory Sample ID: 5F29049-14 (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	2.52		1.00	ug/l	07/02/15 18:36	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	9.02		1.00	ug/l	07/02/15 18:36	EPA 8260B	mtc	
Benzene	13.2		1.00	ug/l	07/02/15 18:36	EPA 8260B	mtc	
Toluene	30.4		1.00	ug/l	07/02/15 18:36	EPA 8260B	mtc	
Ethylbenzene	8.21		1.00	ug/l	07/02/15 18:36	EPA 8260B	mtc	
Xylenes (total)	43.4		2.00	ug/l	07/02/15 18:36	EPA 8260B	mtc	
Isopropylbenzene	1.03		1.00	ug/l	07/02/15 18:36	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/02/15 18:36	EPA 8260B	mtc	
Naphthalene	1.52		1.00	ug/l	07/02/15 18:36	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	95.1 %		70-130		07/02/15 18:36	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	86.6 %		70-130		07/02/15 18:36	EPA 8260B	mtc	
Surrogate: Fluorobenzene	82.4 %		70-130		07/02/15 18:36	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: CLIENT
Number of Containers: 33

Reported:
07/08/15 10:06

Client Sample ID: MW-15

Date/Time Sampled: 06/25/15 14:03

Laboratory Sample ID: 5F29049-15 (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	5.86		1.00	ug/l	07/02/15 19:14	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	21.8		1.00	ug/l	07/02/15 19:14	EPA 8260B	mtc	
Benzene	27.7		1.00	ug/l	07/02/15 19:14	EPA 8260B	mtc	
Toluene	63.2		1.00	ug/l	07/02/15 19:14	EPA 8260B	mtc	
Ethylbenzene	20.6		1.00	ug/l	07/02/15 19:14	EPA 8260B	mtc	
Xylenes (total)	105		2.00	ug/l	07/02/15 19:14	EPA 8260B	mtc	
Isopropylbenzene	2.70		1.00	ug/l	07/02/15 19:14	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/02/15 19:14	EPA 8260B	mtc	
Naphthalene	4.50		1.00	ug/l	07/02/15 19:14	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97.7 %		70-130		07/02/15 19:14	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	84.9 %		70-130		07/02/15 19:14	EPA 8260B	mtc	
Surrogate: Fluorobenzene	81.4 %		70-130		07/02/15 19:14	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: CLIENT
Number of Containers: 33

Reported:
07/08/15 10:06

Client Sample ID: MW-16

Date/Time Sampled: 06/25/15 17:12

Laboratory Sample ID: 5F29049-16 (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	1.67		1.00	ug/l	07/02/15 21:07	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	4.82		1.00	ug/l	07/02/15 21:07	EPA 8260B	mtc	
Benzene	8.14		1.00	ug/l	07/02/15 21:07	EPA 8260B	mtc	
Toluene	13.8		1.00	ug/l	07/02/15 21:07	EPA 8260B	mtc	
Ethylbenzene	4.79		1.00	ug/l	07/02/15 21:07	EPA 8260B	mtc	
Xylenes (total)	21.8		2.00	ug/l	07/02/15 21:07	EPA 8260B	mtc	
Isopropylbenzene	1.12		1.00	ug/l	07/02/15 21:07	EPA 8260B	mtc	
Methyl tert-butyl ether	14.8		1.00	ug/l	07/02/15 21:07	EPA 8260B	mtc	
Naphthalene	1.13		1.00	ug/l	07/02/15 21:07	EPA 8260B	mtc	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.6 %		70-130		07/02/15 21:07	EPA 8260B	mtc	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	87.5 %		70-130		07/02/15 21:07	EPA 8260B	mtc	
<i>Surrogate: Fluorobenzene</i>	83.3 %		70-130		07/02/15 21:07	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: CLIENT
Number of Containers: 33

Reported:
07/08/15 10:06

Client Sample ID: TRIP BLANK

Date/Time Sampled: 06/25/15 00:00

Laboratory Sample ID: 5F29049-17 (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	07/02/15 14:29	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/02/15 14:29	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	07/02/15 14:29	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	07/02/15 14:29	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	07/02/15 14:29	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	07/02/15 14:29	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	07/02/15 14:29	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/02/15 14:29	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	07/02/15 14:29	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	94.7 %		70-130		07/02/15 14:29	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	89.5 %		70-130		07/02/15 14:29	EPA 8260B	mtc	
Surrogate: Fluorobenzene	82.1 %		70-130		07/02/15 14:29	EPA 8260B	mtc	

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Converse	Project: ROSEMERGY'S	
2738 West College Avenue	Project Number: 11-17788-02	Reported:
State College PA, 16801	Collector: CLIENT	07/08/15 10:06
Project Manager: Orion Cook	Number of Containers: 33	

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.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

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.



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Converse	Project: ROSEMERGY'S	
2738 West College Avenue	Project Number: 11-17788-02	Reported:
State College PA, 16801	Collector: CLIENT	07/08/15 10:06
Project Manager: Orion Cook	Number of Containers: 33	

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

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

SAMPLING PLACE Market at Woodloch
 OWNER Woodloch
 ADDRESS Hawley, PA
 PROJECT NAME Restoration of

CC FIELD REP. JO
 DATE 6/25 & 6/26/15
 WEATHER Partly, 70s 80s & cloudy, 70s
 PROJECT NO. 117788-02
 ATTENTION DVS or OBC



FIRM RESPONSIBLE FOR SAMPLING
Converse Consultants
 2738 West College Avenue
 State College, Pennsylvania 16801
 814-234-3223
 Fax 814-234-3255

St 29049 #1

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-1R	11:01	5.16	Pump		4.6	Pump	40 mL HCl										5.1	6250	19.0	(2008 PADEP Unleaded (gas))
MW-2	11:21	3.17			5.4												6.6	2470	17.8	(Shot List Target compounds)
MW-3	11:48	2.15			5.8												7.4	455	19.9	
MW-4	10:46	2.34			5.9												8.6	737	19.6	
MW-5	12:20	3.30			5.5												6.6	6360	19.1	
MW-5M	12:20	3.30			5.5												6.6	6360	19.1	
MW-7	11:29	7.07			3.4												6.2	913	13.3	
MW-8	4:07	2.43			5.9												6.7	4370	14.0	
MW-9	4:34	0.62			6.8												7.0	2050	14.8	
MW-10	10:20	2.60			5.6												9.3	1207	13.8	
MW-11	9:48	2.83			5.8												7.9	707	14.1	
MW-12	2:31	3.70			5.3												6.5	1292	16.8	
MW-13	5:31	11.74			1.6												6.1	273	11.7	

RELINQUISHED BY (SIGNATURE) [Signature] DATE 6/29/15 TIME 11:10 RECEIVED BY (SIGNATURE) [Signature] ADDRESS 2019 9th Ave

RELINQUISHED BY (SIGNATURE) [Signature] DATE 6/29/15 TIME 12:30 RECEIVED BY (SIGNATURE) [Signature] ADDRESS At Hawley, PA 16802

DATE RECEIVED _____ TIME _____

ALL SAMPLES REC'D. INTACT ☐ YES ☐ NO

LIST SAMPLES MISSING/DAMAGED _____

ACCEPTED BY _____

2 of 3

2738 West College Avenue
State College, Pennsylvania 16801
814.337.3333

Fax 814-234-3255

RECEIVING LABORATORY Polivnet Laboratory
ADDRESS 2019 qth Ave,
Albuquerque, NM 86602
DATE RECEIVED _____ TIME _____
ALL SAMPLES REC'D. INTACT ☐ YES ☐ NO
LIST SAMPLES MISSING/DAMAGED _____
ACCEPTED BY _____

Chain of Custody Receiving Document

Page 3 of 3

#3

Receiver: CADate/Time of this check: 6-29-15 17:46 Client: Converse Lab # SF 29049Received on ICE? Y * Sample Temperature when delivered to the Lab: 0 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: latex

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	
1							2-15cc		<input checked="" type="checkbox"/> *		

* 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: one of the MW-8 vials has large headspace



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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



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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: 20
Reported:
12/02/15 09:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-3	5K17095-01	Water	Grab	11/13/15 13:53	11/17/15 15:20
MW-4	5K17095-02	Water	Grab	11/13/15 14:34	11/17/15 15:20
MW-9	5K17095-03	Water	Grab	11/13/15 15:27	11/17/15 15:20
MW-17	5K17095-04	Water	Grab	11/12/15 11:17	11/17/15 15:20
MW-18	5K17095-05	Water	Grab	11/12/15 11:50	11/17/15 15:20
MW-19	5K17095-06	Water	Grab	11/12/15 09:48	11/17/15 15:20
MW-20	5K17095-07	Water	Grab	11/12/15 13:05	11/17/15 15:20
MW-21	5K17095-08	Water	Grab	11/12/15 17:35	11/17/15 15:20
MW-22	5K17095-09	Water	Grab	11/12/15 16:35	11/17/15 15:20
TRIP BLANK	5K17095-10	Water	Trip Blank	11/13/15 00:00	11/17/15 15:20

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: CLIENT
Number of Containers: 20
Reported:
12/02/15 09:28

Client Sample ID: MW-3

Date/Time Sampled: 11/13/15 13:53

Laboratory Sample ID: 5K17095-01 (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	1.46		1.00	ug/l	11/18/15 23:58	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	6.07		1.00	ug/l	11/18/15 23:58	EPA 8260B	mtc	
Benzene	82.4		1.00	ug/l	11/18/15 23:58	EPA 8260B	mtc	
Toluene	12.7		1.00	ug/l	11/18/15 23:58	EPA 8260B	mtc	
Ethylbenzene	20.0		1.00	ug/l	11/18/15 23:58	EPA 8260B	mtc	
Xylenes (total)	28.0		2.00	ug/l	11/18/15 23:58	EPA 8260B	mtc	
Isopropylbenzene	11.2		1.00	ug/l	11/18/15 23:58	EPA 8260B	mtc	
Methyl tert-butyl ether	419		10.0	ug/l	11/19/15 17:47	EPA 8260B	mtc	
Naphthalene	1.63		1.00	ug/l	11/18/15 23:58	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130		11/18/15 23:58	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	95.3 %		70-130		11/18/15 23:58	EPA 8260B	mtc	
Surrogate: Fluorobenzene	99.3 %		70-130		11/18/15 23:58	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: CLIENT
Number of Containers: 20
Reported:
12/02/15 09:28

Client Sample ID: MW-4

Date/Time Sampled: 11/13/15 14:34

Laboratory Sample ID: 5K17095-02 (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	8.15		1.00	ug/l	11/19/15 00:37	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	20.1		1.00	ug/l	11/19/15 00:37	EPA 8260B	mtc	
Benzene	7.29		1.00	ug/l	11/19/15 00:37	EPA 8260B	mtc	
Toluene	14.9		1.00	ug/l	11/19/15 00:37	EPA 8260B	mtc	
Ethylbenzene	8.42		1.00	ug/l	11/19/15 00:37	EPA 8260B	mtc	
Xylenes (total)	41.1		2.00	ug/l	11/19/15 00:37	EPA 8260B	mtc	
Isopropylbenzene	2.35		1.00	ug/l	11/19/15 00:37	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/19/15 00:37	EPA 8260B	mtc	
Naphthalene	1.89		1.00	ug/l	11/19/15 00:37	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	99.8 %		70-130		11/19/15 00:37	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	93.2 %		70-130		11/19/15 00:37	EPA 8260B	mtc	
Surrogate: Fluorobenzene	98.1 %		70-130		11/19/15 00:37	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 20
Reported:
12/02/15 09:28

Client Sample ID: MW-9

Date/Time Sampled: 11/13/15 15:27

Laboratory Sample ID: 5K17095-03 (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	14.6		10.0	ug/l	11/23/15 16:35	EPA 8260B	wlm	
1,2,4-Trimethylbenzene	12.0		10.0	ug/l	11/23/15 16:35	EPA 8260B	wlm	
Benzene	1210		50.0	ug/l	11/25/15 05:19	EPA 8260B	wlm	
Toluene	112		10.0	ug/l	11/23/15 16:35	EPA 8260B	wlm	
Ethylbenzene	251		10.0	ug/l	11/23/15 16:35	EPA 8260B	wlm	
Xylenes (total)	73.0		20.0	ug/l	11/23/15 16:35	EPA 8260B	wlm	
Isopropylbenzene	92.5		10.0	ug/l	11/23/15 16:35	EPA 8260B	wlm	
Methyl tert-butyl ether	<10.0		10.0	ug/l	11/23/15 16:35	EPA 8260B	wlm	
Naphthalene	61.0		10.0	ug/l	11/23/15 16:35	EPA 8260B	wlm	
Surrogate: 4-Bromofluorobenzene	100 %		70-130		11/23/15 16:35	EPA 8260B	wlm	
Surrogate: 1,2-Dichloroethane-d4	104 %		70-130		11/23/15 16:35	EPA 8260B	wlm	
Surrogate: Fluorobenzene	103 %		70-130		11/23/15 16:35	EPA 8260B	wlm	

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Converse
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Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 20
Reported:
12/02/15 09:28

Client Sample ID: MW-17

Date/Time Sampled: 11/12/15 11:17

Laboratory Sample ID: 5K17095-04 (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	11/19/15 01:16	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	11/19/15 01:16	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	11/19/15 01:16	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	11/19/15 01:16	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	11/19/15 01:16	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	11/19/15 01:16	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	11/19/15 01:16	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/19/15 01:16	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	11/19/15 01:16	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130		11/19/15 01:16	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	93.9 %		70-130		11/19/15 01:16	EPA 8260B	mtc	
Surrogate: Fluorobenzene	98.9 %		70-130		11/19/15 01:16	EPA 8260B	mtc	

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State College PA, 16801
Project Manager: Orion Cook

Project: ROSEMERGY'S
Project Number: 11-17788-02
Collector: CLIENT
Number of Containers: 20
Reported:
12/02/15 09:28

Client Sample ID: MW-18

Date/Time Sampled: 11/12/15 11:50

Laboratory Sample ID: 5K17095-05 (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	11/19/15 01:54	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	11/19/15 01:54	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	11/19/15 01:54	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	11/19/15 01:54	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	11/19/15 01:54	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	11/19/15 01:54	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	11/19/15 01:54	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/19/15 01:54	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	11/19/15 01:54	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	99.1 %		70-130		11/19/15 01:54	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	94.5 %		70-130		11/19/15 01:54	EPA 8260B	mtc	
Surrogate: Fluorobenzene	98.8 %		70-130		11/19/15 01:54	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: 11-17788-02
Collector: CLIENT
Number of Containers: 20
Reported:
12/02/15 09:28

Client Sample ID: MW-19

Date/Time Sampled: 11/12/15 09:48

Laboratory Sample ID: 5K17095-06 (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	11/19/15 03:10	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	11/19/15 03:10	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	11/19/15 03:10	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	11/19/15 03:10	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	11/19/15 03:10	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	11/19/15 03:10	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	11/19/15 03:10	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/19/15 03:10	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	11/19/15 03:10	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130		11/19/15 03:10	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	96.4 %		70-130		11/19/15 03:10	EPA 8260B	mtc	
Surrogate: Fluorobenzene	99.2 %		70-130		11/19/15 03:10	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: CLIENT
Number of Containers: 20
Reported:
12/02/15 09:28

Client Sample ID: MW-20

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

Laboratory Sample ID: 5K17095-07 (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	11/19/15 00:18	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	11/19/15 00:18	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	11/19/15 00:18	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	11/19/15 00:18	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	11/19/15 00:18	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	11/19/15 00:18	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	11/19/15 00:18	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/19/15 00:18	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	11/19/15 00:18	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98.7 %		70-130		11/19/15 00:18	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	95.1 %		70-130		11/19/15 00:18	EPA 8260B	mtc	
Surrogate: Fluorobenzene	99.0 %		70-130		11/19/15 00:18	EPA 8260B	mtc	

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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: CLIENT
Number of Containers: 20
Reported:
12/02/15 09:28

Client Sample ID: MW-21

Date/Time Sampled: 11/12/15 17:35

Laboratory Sample ID: 5K17095-08 (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	11/19/15 00:56	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	11/19/15 00:56	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	11/19/15 00:56	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	11/19/15 00:56	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	11/19/15 00:56	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	11/19/15 00:56	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	11/19/15 00:56	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/19/15 00:56	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	11/19/15 00:56	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98.7 %		70-130		11/19/15 00:56	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	95.3 %		70-130		11/19/15 00:56	EPA 8260B	mtc	
Surrogate: Fluorobenzene	99.0 %		70-130		11/19/15 00:56	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: CLIENT
Number of Containers: 20
Reported:
12/02/15 09:28

Client Sample ID: MW-22

Date/Time Sampled: 11/12/15 16:35

Laboratory Sample ID: 5K17095-09 (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	11/19/15 02:13	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	11/19/15 02:13	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	11/19/15 02:13	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	11/19/15 02:13	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	11/19/15 02:13	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	11/19/15 02:13	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	11/19/15 02:13	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/19/15 02:13	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	11/19/15 02:13	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98.7 %		70-130		11/19/15 02:13	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	96.5 %		70-130		11/19/15 02:13	EPA 8260B	mtc	
Surrogate: Fluorobenzene	99.3 %		70-130		11/19/15 02:13	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: CLIENT
Number of Containers: 20
Reported:
12/02/15 09:28

Client Sample ID: TRIP BLANK

Date/Time Sampled: 11/13/15 00:00

Laboratory Sample ID: 5K17095-10 (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	11/19/15 01:35	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	11/19/15 01:35	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	11/19/15 01:35	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	11/19/15 01:35	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	11/19/15 01:35	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	11/19/15 01:35	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	11/19/15 01:35	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/19/15 01:35	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	11/19/15 01:35	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97.5 %		70-130		11/19/15 01:35	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	95.1 %		70-130		11/19/15 01:35	EPA 8260B	mtc	
Surrogate: Fluorobenzene	98.4 %		70-130		11/19/15 01:35	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: CLIENT	12/02/15 09:28
Project Manager: Orion Cook	Number of Containers: 20	

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.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

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.



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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: 20
Reported: 12/02/15 09:28

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

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

PA

FIRM RESPONSIBLE FOR SAMPLING

Converse Consultants

2738 West College Avenue
State College, Pennsylvania 16801
814-234-3223
Fax 814-234-3255



SAMPLING PLACE Rosemerys
OWNER Woodluch
ADDRESS Howley, PA

PROJECT NAME Rosemerys

CC FIELD REP. Scott Kent
DATE 11/12 + 11/13/15
WEATHER Rain + P. Cloudy windy ~50°
PROJECT NO. 11-177 88-02
ATTENTION DWS

5619095

182

#1

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
MV-3	1353	2.13	Peristaltic Pump		6.0	Peristaltic Pump	40ml VOA HCL		5.9	2570	12.9	2008 PA DEP Unloaded Gas
MV-4	1434	1.53			6.5				7.3	440	11.6	Short 1st Target Unloaded
MV-9	1527	0.08			7.0				6.4	1648	11.7	
MV-17	1117	8.34			3.5				4.8	2130	13.3	
MV-18	1150	12.99			1.5				5.9	219	13.3	
MV-19	0948	13.32			1.9				6.0	1198	12.2	
MV-20	1305	1.01			7.0				6.8	799	11.9	
MV-21	1735	1.04			6.2				5.4	922	12.8	
MV-22	1635	0.25			7.0				5.6	691	11.9	
TB	N/A											

RECEIVING LABORATORY
ADDRESS

DATE RECEIVED

ALL SAMPLES REC'D. INTACT ☐ YES ☐ NO

LIST SAMPLES MISSING/DAMAGED

ACCEPTED BY

TIME

RELINQUISHED BY (SIGNATURE)

DATE

TIME

RECEIVED BY (SIGNATURE)

RECEIVING LABORATORY

RELINQUISHED BY (SIGNATURE)
Kumbaly W Kent

DATE
11/17/15

TIME
10:40

RECEIVED BY (SIGNATURE)
Kumbaly W Kent

RECEIVING LABORATORY

Chain of Custody Receiving Document

Receiver: MC

Page 2 of 2

Date/Time of this check: 11/17/15 1535 Client: Converse Lab # 5417095Received on ICE? Y ☐ * Sample Temperature when delivered to the Lab: 5.8 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	
1							24C1	<input type="checkbox"/> *	<input type="checkbox"/> *		

* 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:



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State Certifications: MD 275, WV 364

Converse

Project: WOODLOCH

2738 West College Avenue

Project Number: 111778802

Reported:

State College PA, 16801

Collector: SV

11/11/15 09:04

Project Manager: David Swetland

Number of Containers: 14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
TSE-1	5K03026-01	Water	Grab	10/29/15 09:55	11/03/15 11:20
TSE-2	5K03026-02	Water	Grab	10/29/15 17:50	11/03/15 11:20
TSE-3	5K03026-03	Water	Grab	10/29/15 23:40	11/03/15 11:20
TSE-4	5K03026-04	Water	Grab	10/30/15 09:40	11/03/15 11:20
TSE-5	5K03026-05	Water	Grab	10/30/15 17:40	11/03/15 11:20
TSE-6	5K03026-06	Water	Grab	10/30/15 23:40	11/03/15 11:20
TSE-7	5K03026-07	Water	Grab	10/31/15 09:43	11/03/15 11:20

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: David Swetland

Project: WOODLOCH

Project Number: 111778802

Collector: SV

Number of Containers: 14

Reported:

11/11/15 09:04

Client Sample ID: TSE-1

Date/Time Sampled: 10/29/15 09:55

Laboratory Sample ID: 5K03026-01 (Water/Grab)

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

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	1.96		1.00	ug/l	11/04/15 01:18	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	3.46		1.00	ug/l	11/04/15 01:18	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	11/04/15 01:18	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	11/04/15 01:18	EPA 8260B	mtc	
Ethylbenzene	1.49		1.00	ug/l	11/04/15 01:18	EPA 8260B	mtc	
Xylenes (total)	5.24		2.00	ug/l	11/04/15 01:18	EPA 8260B	mtc	
Isopropylbenzene	1.21		1.00	ug/l	11/04/15 01:18	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/04/15 01:18	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	11/04/15 01:18	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	101 %		70-130		11/04/15 01:18	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	116 %		70-130		11/04/15 01:18	EPA 8260B	mtc	
Surrogate: Fluorobenzene	113 %		70-130		11/04/15 01:18	EPA 8260B	mtc	

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Converse

2738 West College Avenue

State College PA, 16801

Project Manager: David Swetland

Project: WOODLOCH

Project Number: 111778802

Collector: SV

Number of Containers: 14

Reported:

11/11/15 09:04

Client Sample ID: TSE-2

Date/Time Sampled: 10/29/15 17:50

Laboratory Sample ID: 5K03026-02 (Water/Grab)

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

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	11/04/15 01:44	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	1.59		1.00	ug/l	11/04/15 01:44	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	11/04/15 01:44	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	11/04/15 01:44	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	11/04/15 01:44	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	11/04/15 01:44	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	11/04/15 01:44	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/04/15 01:44	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	11/04/15 01:44	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	101 %		70-130		11/04/15 01:44	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	116 %		70-130		11/04/15 01:44	EPA 8260B	mtc	
Surrogate: Fluorobenzene	114 %		70-130		11/04/15 01:44	EPA 8260B	mtc	

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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: David Swetland

Project: WOODLOCH

Project Number: 111778802

Collector: SV

Number of Containers: 14

Reported:

11/11/15 09:04

Client Sample ID: TSE-3

Date/Time Sampled: 10/29/15 23:40

Laboratory Sample ID: 5K03026-03 (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	11/04/15 02:10	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	11/04/15 02:10	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	11/04/15 02:10	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	11/04/15 02:10	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	11/04/15 02:10	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	11/04/15 02:10	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	11/04/15 02:10	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/04/15 02:10	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	11/04/15 02:10	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	101 %		70-130		11/04/15 02:10	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	116 %		70-130		11/04/15 02:10	EPA 8260B	mtc	
Surrogate: Fluorobenzene	112 %		70-130		11/04/15 02:10	EPA 8260B	mtc	

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Converse

2738 West College Avenue

State College PA, 16801

Project Manager: David Swetland

Project: WOODLOCH

Project Number: 111778802

Collector: SV

Number of Containers: 14

Reported:

11/11/15 09:04

Client Sample ID: TSE-4

Date/Time Sampled: 10/30/15 09:40

Laboratory Sample ID: 5K03026-04 (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	11/04/15 02:36	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	11/04/15 02:36	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	11/04/15 02:36	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	11/04/15 02:36	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	11/04/15 02:36	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	11/04/15 02:36	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	11/04/15 02:36	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/04/15 02:36	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	11/04/15 02:36	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	99.8 %		70-130		11/04/15 02:36	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	117 %		70-130		11/04/15 02:36	EPA 8260B	mtc	
Surrogate: Fluorobenzene	113 %		70-130		11/04/15 02:36	EPA 8260B	mtc	

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Converse
2738 West College Avenue
State College PA, 16801
Project Manager: David Swetland

Project: WOODLOCH
Project Number: 111778802
Collector: SV
Number of Containers: 14

Reported:
11/11/15 09:04

Client Sample ID: TSE-5

Date/Time Sampled: 10/30/15 17:40

Laboratory Sample ID: 5K03026-05 (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	11/04/15 03:02	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	11/04/15 03:02	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	11/04/15 03:02	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	11/04/15 03:02	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	11/04/15 03:02	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	11/04/15 03:02	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	11/04/15 03:02	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/04/15 03:02	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	11/04/15 03:02	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	100 %		70-130		11/04/15 03:02	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	115 %		70-130		11/04/15 03:02	EPA 8260B	mtc	
Surrogate: Fluorobenzene	113 %		70-130		11/04/15 03:02	EPA 8260B	mtc	

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Converse
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State College PA, 16801
Project Manager: David Swetland

Project: WOODLOCH
Project Number: 111778802
Collector: SV
Number of Containers: 14

Reported:
11/11/15 09:04

Client Sample ID: TSE-6

Date/Time Sampled: 10/30/15 23:40

Laboratory Sample ID: 5K03026-06 (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	11/04/15 03:28	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	11/04/15 03:28	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	11/04/15 03:28	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	11/04/15 03:28	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	11/04/15 03:28	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	11/04/15 03:28	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	11/04/15 03:28	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/04/15 03:28	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	11/04/15 03:28	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	101 %		70-130		11/04/15 03:28	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	116 %		70-130		11/04/15 03:28	EPA 8260B	mtc	
Surrogate: Fluorobenzene	113 %		70-130		11/04/15 03:28	EPA 8260B	mtc	

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Converse

2738 West College Avenue

State College PA, 16801

Project Manager: David Swetland

Project: WOODLOCH

Project Number: 111778802

Collector: SV

Number of Containers: 14

Reported:

11/11/15 09:04

Client Sample ID: TSE-7

Date/Time Sampled: 10/31/15 09:43

Laboratory Sample ID: 5K03026-07 (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	11/04/15 03:55	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	11/04/15 03:55	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	11/04/15 03:55	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	11/04/15 03:55	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	11/04/15 03:55	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	11/04/15 03:55	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	11/04/15 03:55	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	11/04/15 03:55	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	11/04/15 03:55	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	100 %		70-130		11/04/15 03:55	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	116 %		70-130		11/04/15 03:55	EPA 8260B	mtc	
Surrogate: Fluorobenzene	113 %		70-130		11/04/15 03:55	EPA 8260B	mtc	

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Converse	Project: WOODLOCH	
2738 West College Avenue	Project Number: 111778802	Reported:
State College PA, 16801	Collector: SV	11/11/15 09:04
Project Manager: David Swetland	Number of Containers: 14	

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.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

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.



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Converse	Project: WOODLOCH	
2738 West College Avenue	Project Number: 111778802	Reported:
State College PA, 16801	Collector: SV	11/11/15 09:04
Project Manager: David Swetland	Number of Containers: 14	

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

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PA 5K03026

18

March 30, 2015

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

Project Location: Rosemergy, PA
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 15C0792

Enclosed are results of analyses for samples received by the laboratory on March 19, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a long horizontal line extending to the right.

Aaron L. Benoit
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: 3/30/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15C0792

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

PROJECT LOCATION: Rosemergy, PA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Inf 1H	15C0792-01	Soil Gas	Influent Air	EPA TO-15	
Inf End	15C0792-02	Soil Gas	Influent 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.

EPA TO-15**Qualifications:****L-03**

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Naphthalene**

15C0792-01[Inf 1H], 15C0792-02[Inf End], B118069-BLK1, B118069-BS1

RL-02

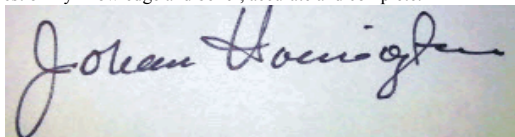
Elevated reporting limit due to high concentration of non-target compounds. Requested reporting limit not met.

Analyte & Samples(s) Qualified:

15C0792-01[Inf 1H], 15C0792-02[Inf End]

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.



Johanna K. Harrington

Manager, Laboratory Reporting

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

ANALYTICAL RESULTS

Project Location: Rosemergy, PA
Date Received: 3/19/2015
Field Sample #: Inf 111
Sample ID: 15C0792-01
Sample Matrix: Soil Gas
Sampled: 3/12/2015 14:01

Sample Description/Location: Influent Air
Sub Description/Location:
Canister ID: 1569
Canister Size: 0.4 liter
Flow Controller ID: 5067
Sample Type: Grab

Work Order: 15C0792
Initial Vacuum(in Hg): -18
Final Vacuum(in Hg): -2
Receipt Vacuum(in Hg): -2.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Sample Flags: RL-02

Sample Flags: RL-02

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	1900	40	L-03	6100	130	800	3/27/15 9:43	WSD	
Ethylbenzene	740	40		3200	170	800	3/27/15 9:43	WSD	
Isopropylbenzene (Cumene)	ND	100		ND	500	800	3/27/15 9:43	WSD	
Methyl tert-Butyl Ether (MTBE)	78	40		280	140	800	3/27/15 9:43	WSD	
Naphthalene	ND	40		ND	210	800	3/27/15 9:43	WSD	
Toluene	3000	40		11000	150	800	3/27/15 9:43	WSD	
1,2,4-Trimethylbenzene	240	40		1200	200	800	3/27/15 9:43	WSD	
1,3,5-Trimethylbenzene	86	40		420	200	800	3/27/15 9:43	WSD	
m&p-Xylene	2200	80		9700	350	800	3/27/15 9:43	WSD	
o-Xylene	590	40	2600	170	800	3/27/15 9:43	WSD		

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	3/27/15 9:43
4-Bromofluorobenzene (4)	110	70-130	3/27/15 9:43

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

ANALYTICAL RESULTS

Project Location: Rosemergy, PA
Date Received: 3/19/2015
Field Sample #: Inf End
Sample ID: 15C0792-02
Sample Matrix: Soil Gas
Sampled: 3/12/2015 14:01

Sample Description/Location: Influent Air
Sub Description/Location:
Canister ID: 1571
Canister Size: 0.4 liter
Flow Controller ID: 5066
Sample Type: Grab

Work Order: 15C0792
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -2
Receipt Vacuum(in Hg): -5.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15								
Sample Flags: RL-02								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Benzene	3000	40		9700	130	800	3/27/15 11:24	WSD
Ethylbenzene	1300	40		5800	170	800	3/27/15 11:24	WSD
Isopropylbenzene (Cumene)	150	100		740	500	800	3/27/15 11:24	WSD
Methyl tert-Butyl Ether (MTBE)	ND	40		ND	140	800	3/27/15 11:24	WSD
Naphthalene	ND	40	L-03	ND	210	800	3/27/15 11:24	WSD
Toluene	4200	40		16000	150	800	3/27/15 11:24	WSD
1,2,4-Trimethylbenzene	290	40		1400	200	800	3/27/15 11:24	WSD
1,3,5-Trimethylbenzene	120	40		610	200	800	3/27/15 11:24	WSD
m&p-Xylene	3700	80		16000	350	800	3/27/15 11:24	WSD
o-Xylene	860	40		3700	170	800	3/27/15 11:24	WSD
Surrogates	% Recovery			% REC Limits				
4-Bromofluorobenzene (1)	104			70-130			3/27/15 11:24	
4-Bromofluorobenzene (4)	112			70-130			3/27/15 11:24	

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

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
15C0792-01 [Inf 1H]	B118069	2	200	5	1000	400	200	03/26/15
15C0792-02 [Inf End]	B118069	2	200	5	1000	400	200	03/26/15

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

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B118069 - TO-15 Prep											
Blank (B118069-BLK1)					Prepared & Analyzed: 03/26/15						
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									L-03
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)	7.88				8.00		98.5	70-130			
LCS (B118069-BS1)					Prepared & Analyzed: 03/26/15						
Benzene	3.80				5.00		76.0	70-130			
Ethylbenzene	4.33				5.00		86.6	70-130			
Isopropylbenzene (Cumene)	7.99				9.38		85.1	70-130			
Methyl tert-Butyl Ether (MTBE)	4.35				5.00		87.0	70-130			
Naphthalene	2.68				5.00		53.6	* 70-130			L-03
Toluene	4.29				5.00		85.8	70-130			
1,2,4-Trimethylbenzene	4.39				5.00		87.8	70-130			
1,3,5-Trimethylbenzene	4.32				5.00		86.3	70-130			
m&p-Xylene	9.25				10.0		92.5	70-130			
o-Xylene	4.27				5.00		85.4	70-130			
Surrogate: 4-Bromofluorobenzene (1)	8.21				8.00		103	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.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
RL-02	Elevated reporting limit due to high concentration of non-target compounds. Requested reporting limit not met.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
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	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
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	02/23/2016
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

[illegible]

CLIENT COMMENTS:		Special Requirements:		Matrix Code:	Media Codes:
Laboratory Comments:	Relinquished by: (signature)	Date/Time:	Turnaround ^{est} <input type="checkbox"/> 7-Day <input type="checkbox"/> 10-Day <input type="checkbox"/> Other _____ RUSH * <input type="checkbox"/> *24-Hr <input type="checkbox"/> *48-Hr <input type="checkbox"/> *72-Hr <input type="checkbox"/> *4-Day <small>Additional Fees Apply</small>	SG = SOIL GAS IA = INDOOR AIR AMB = AMBIENT SS = SUB SLAB D = DUP BL = BLANK O = other	S = summa can T = tedlar bag P = PUF T = tube F = filter C = cassette O = Other
	Received by: (signature)	Date/Time:	Regulations: _____ Data Enhancement/RCP? <input type="checkbox"/> Y <input type="checkbox"/> N Enhanced Data Package <input type="checkbox"/> Y <input type="checkbox"/> N (Surcharge Applies) Required Detection Limits: _____ Other: _____		
	Relinquished by: (signature)	Date/Time:			
	Received by: (signature)	Date/Time:			

11. 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. NELAC & AIHA-LAP, LLC Accredited/WBE/DBE Certified



Ship

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790141028345

Ship (PA) date :
Tues 3/17/2015

Delivered

Signed for by: KMCCEE

Actual delivery :
Thur 3/19/2015 11:27 am

STATE COLLEGE, PA US

East Longmeadow, MA US

Travel History

▲ Date/Time	Activity	Location
- 3/19/2015 - Thursday		
11:27 am	Delivered	East Longmeadow, MA
5:57 am	On FedEx vehicle for delivery	CHICOPEE, MA
5:51 am	At local FedEx facility	CHICOPEE, MA
12:41 am	Departed FedEx location	WILLINGTON, CT
- 3/18/2015 - Wednesday		
8:06 pm	Arrived at FedEx location	WILLINGTON, CT
5:54 am	Departed FedEx location	HAGERSTOWN, MD
1:58 am	Arrived at FedEx location	HAGERSTOWN, MD
- 3/17/2015 - Tuesday		
8:47 pm	Left FedEx origin facility	DUNCANVILLE, PA
5:42 pm	Arrived at FedEx location	DUNCANVILLE, PA
11:36 am	Picked up	DUNCANVILLE, PA

Shipment Facts

Tracking number	790141028345	Service	FedEx Ground
Weight	7 lbs / 3.18 kgs	Dimensions	17x10x10 in.
Total pieces	1	Packaging	Package
Special handling section	Package Returns Program		



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Customer Focus

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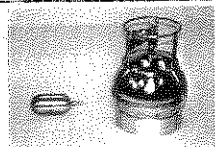
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Page 1 of 2

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: KB DATE: 3/19/15

- 1) Was the chain(s) of custody relinquished and signed?
2) Does the chain agree with the samples?
If not, explain:
3) Are all the samples in good condition?
If not, explain:
4) Are there any samples "On Hold"?
5) Are there any RUSH or SHORT HOLDING TIME samples?

Yes ☒ NoYes ☒ NoYes ☒ NoYes ☒ NoYes ☒ NoStored where:

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)	2	0.4L
Tedlar Bags		
TO-17 Tubes		
Regulators	2	Grab
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?
- Y
- KB

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

Laboratory Comments:

1569 1571 5067 5066

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	Any False statement will be brought to the attention of OIA		Answer (True/False)	Comment
			T/F/NA	
1) The coolers'/boxes' custody seal, if present, is intact.			NA	
2) The cooler or samples do not appear to have been compromised or tampered with.			T	
3) Samples were received on ice.			F	
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) Samples are received within Holding Time.			T	
10) Sample containers have legible labels.			T	
11) Containers/media are not broken or leaking and valves and caps are closed tightly.			T	
12) Sample collection date/times are provided.			T	
13) Appropriate sample/media containers are used.			T	
14) There is sufficient volume for all requested analyses, including any requested MS/MSDs.			T	
15) Trip blanks provided if applicable.			NA	

Doc #278 Rev. 5 October 2014

Who notified of False statements?

Log-In Technician Initials:

KB

Date/Time:

Date/Time:

3/19/15

11:27

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,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive, flowing style.

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		
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 ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							

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

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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



801013120117

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



Delivered
 Signed for by: J.FLYNN

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
8:59 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

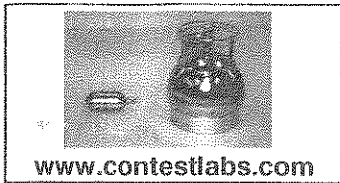
Who notified of False statements?

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 ChecklistCLIENT NAME: Converse Consultants RECEIVED BY: PB DATE: 2-19-141) Was the chain(s) of custody relinquished and signed? ☒ Yes ☐ No2) 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



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		
	Results	RL		Results	RL		Analyzed	Analyst	
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 ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							

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
<i>EPA TO-15 in Air</i>	
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

Attention: Drs. or OBC

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

Proposal Provided? (For Billing purposes)

☐ yes ☐ no proposal date

Telephone: (814) 234-3223
Project # 11-19988-01
Client PO #

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 O1 3-9-14 3:00 60 6.0161 1 SG X

VP-2 Soil Gas S O2 3-9-14 3:23 60 6.0163 1 SG X

VP-3 Soil Gas S O3 3-9-14 3:28 60 6.0161 1 SG X

Laboratory Comments:

CLIENT COMMENTS:

Relinquished by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

Relinquished by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

Turnaround **

☐ 7-Day

☐ 10-Day

☐ 15-Day

☐ 20-Day

☐ 25-Day

☐ 30-Day

Special Requirements

Regulations: _____

Data Enhancement/RCP? ☐ Y ☐ N

Enhanced Data Package ☐ Y ☐ N

(Surcharge Applies)

Required Detection Limit: _____

Other: _____

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

ANALYSIS REQUESTED

Hg

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

Summa canisters are 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

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 for by: CCOLLINS

Actual delivery

Fri 3/14/2014 12:37 pm

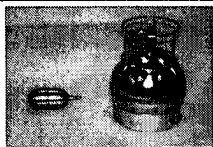
East Longmeadow, MA US

Travel History

Date/Time	Activity	Location
- 3/14/2014 - Friday		
12:37 pm	Delivered	East Longmeadow, MA
6:36 am	On FedEx vehicle for delivery	CHICOPEE, MA
6:30 am	At local FedEx facility	CHICOPEE, MA
12:50 am	Departed FedEx location	WILLINGTON, CT
- 3/13/2014 - Thursday		
6:27 pm	Arrived at FedEx location	WILLINGTON, CT
6:10 am	Departed FedEx location	LEWISBERRY, PA
2:38 am	Arrived at FedEx location	LEWISBERRY, 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		



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 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		

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 slity 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 slity 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; slighty 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	



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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.

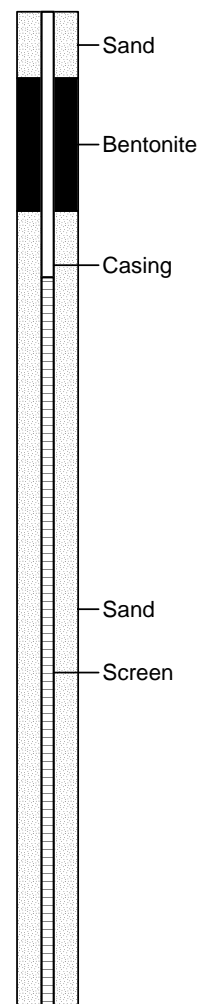
DRILLING RIG:

ELEVATION: 1,290 +/-

GROUNDWATER DATA

DATE	TIME	DEPTH	CASING	Type	Boring	Screen	Casing				DATUM: Feet AMSL
10/30/13	8:12am	12.11'	14.61'	Dia.	8"	2"	2"				DATE START: 10/29/13
				Length	15'	11'	4'				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-1R
0						See soil log of MW-1.	
1							
2							
3						Soil had a strong petroleum odor and registered above 10 on the PID. Soil was containerized for proper disposal.	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15						End of boring.	
16							
17							
18							
19							
20							



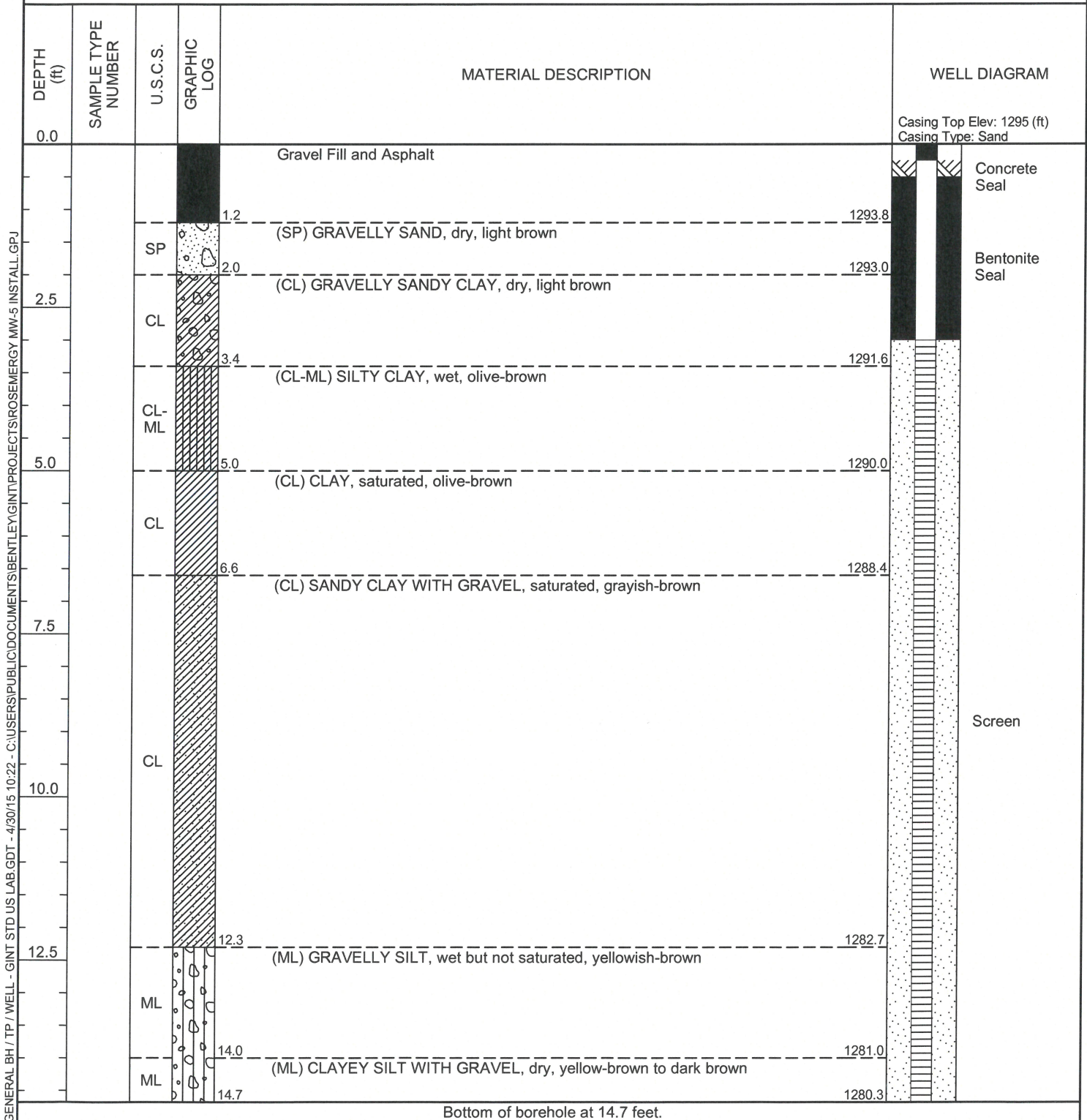


Converse Consultants
2738 West College Avenue
State College, PA 16801
814-234-3223

WELL NUMBER MW-5

PAGE 1 OF 1

CLIENT Woodloch PROJECT NAME Rosemergy
PROJECT NUMBER 11-17788-03 PROJECT LOCATION The Market at Woodloch
DATE STARTED 2/10/15 COMPLETED 2/10/15 GROUND ELEVATION 1295 ft HOLE SIZE 2 inches
DRILLING CONTRACTOR Odyssey Environmental GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger 2" AT TIME OF DRILLING ---
LOGGED BY TJT CHECKED BY OBC AT END OF DRILLING ---
NOTES PID readings > 10. Cuttings drummed and disposed of properly. AFTER DRILLING --- No water level was taken





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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.

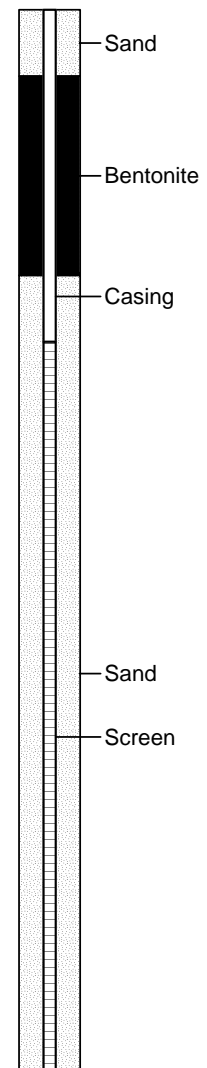
DRILLING RIG:

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							





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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

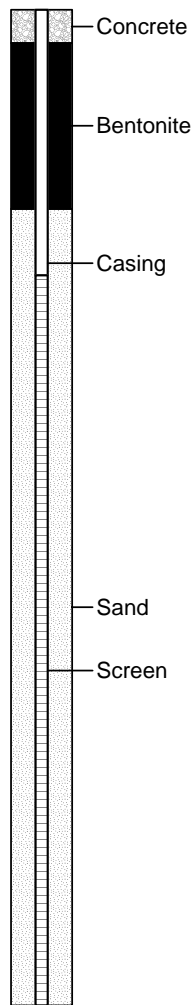
BORING CONTRACTOR: Odyssey Environmental, Inc.

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.	 <p>Concrete</p> <p>Bentonite</p> <p>Casing</p> <p>Sand</p> <p>Screen</p>
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							



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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.

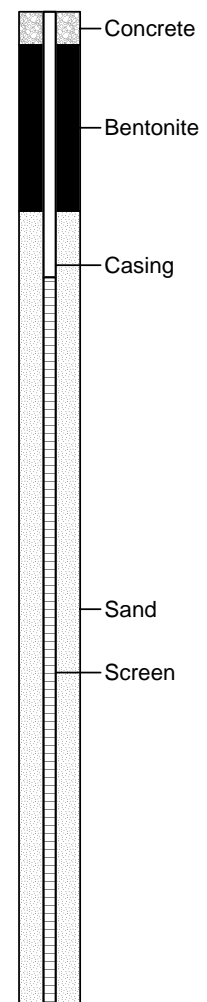
DRILLING RIG:

ELEVATION: 1,290 +/-

GROUNDWATER DATA

DATE	TIME	DEPTH	CASING	Type	Boring	Screen	Casing				DATUM: Feet AMSL
10/29/13	11:38am	14.13'	14.65'	Dia.	8"	2"	2"				DATE START: 10/29/13
10/30/13	9:20am	5.13'		Length	15'	11'	4'				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-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				0			
15	9.8					End of boring.	
16							
17							
18							
19							
20							





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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.

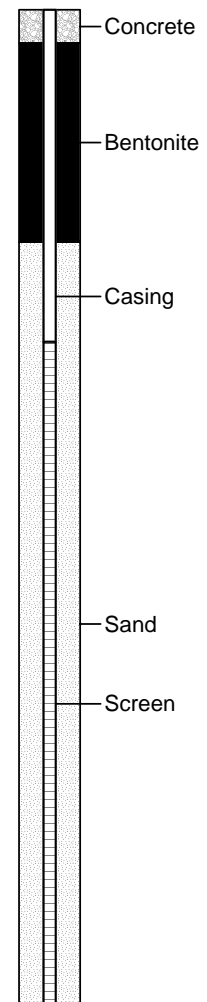
DRILLING RIG: 7822DT

ELEVATION: 1,290 +/-

GROUNDWATER DATA

DATE	TIME	DEPTH	CASING	Type	Boring	Screen	Casing				DATUM: Feet AMSL
1/21/14	1:35pm	3.02'	14.25'	Dia.	HSA	PVC	PVC				DATE START: 1/21/14
1/21/14	2:06pm	2.74'		Length	15'	10"	5'				DATE FINISH: 1/21/14
				Slot		0.01"					DRILLER: Zach & Luke
											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			
9	10.5					---very saturated	
10				0			
11	10.6					Sandy SILT, brown, damp, with clay.	
12				0			
13	10.7				ML	---hard, dry.	
14				0			
15	10.8						
16						End of boring.	
17							
18							
19							
20							





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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.

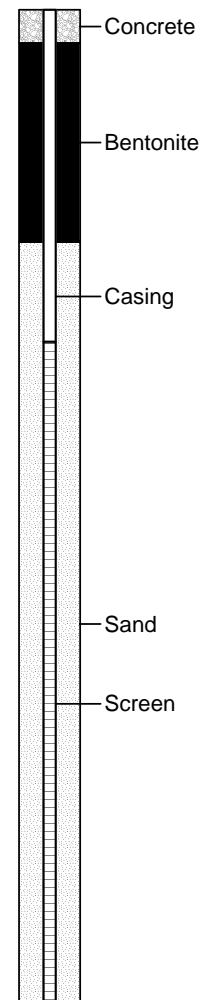
DRILLING RIG: 7822DT

ELEVATION: 1,290 +/-

GROUNDWATER DATA

DATE	TIME	DEPTH	CASING	Type	Boring	Screen	Casing				DATUM: Feet AMSL
1/21/14	12:59pm	6.32'	14.73'	Dia.	8"	2"	2"				DATE START: 1/21/14
1/21/14	2:08pm	2.95'		Length	15'	10"	5'				DATE FINISH: 1/21/14
				Slot		0.01"					DRILLER: Zach & Luke
											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			0	ML	Sandy SILT, reddish brown, damp.	
2							
3	11.2			0			
4					CL	Silty CLAY, gray, damp.	
5	11.3			0			
6						Sandy SILT, brown, damp.	
7	11.4			0			
8							
9	11.5			0	ML	Silty GRAVEL layer.	
10							
11	11.6			0			
12						---some cobbles.	
13	11.7			0			
14							
15	11.8			0			
16						End of boring.	
17							
18							
19							
20							





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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.

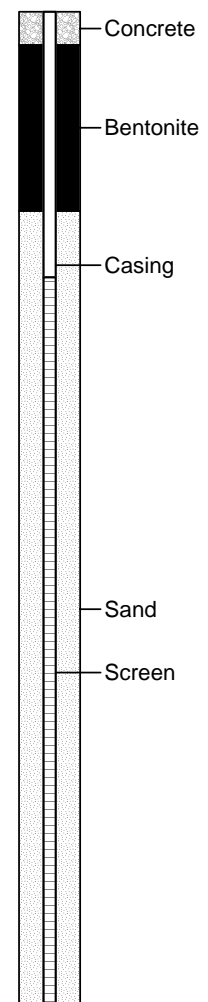
DRILLING RIG:

ELEVATION: 1,290 +/-

GROUNDWATER DATA

DATE	TIME	DEPTH	CASING	Type	Boring	Screen	Casing				DATUM: Feet AMSL
10/29/13	11:38am	14.13'	14.65'	Dia.	8"	2"	2"				DATE START: 10/28/13
10/30/13	9:20am	5.13'	5.13'	Length	15'	11'	4'				DATE FINISH: 10/28/13
				Slot		0.01"					DRILLER: Zach & Luke
											CONVERSE REP.: OBC

Depth in Feet	Sample No.	Blow Counts	Recovery In Feet	PID Readings	USCS	DESCRIPTION	MW-12
0						Red GRAVEL, dry.	
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						
16						End of boring.	
17							
18							
19							
20							





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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

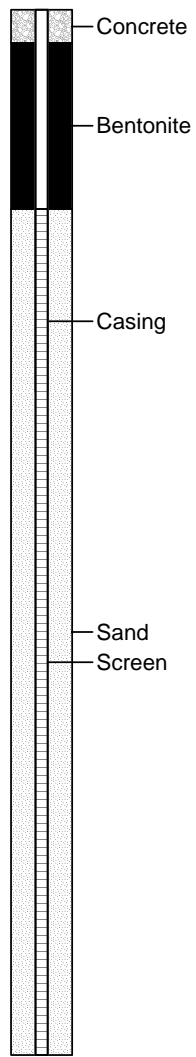
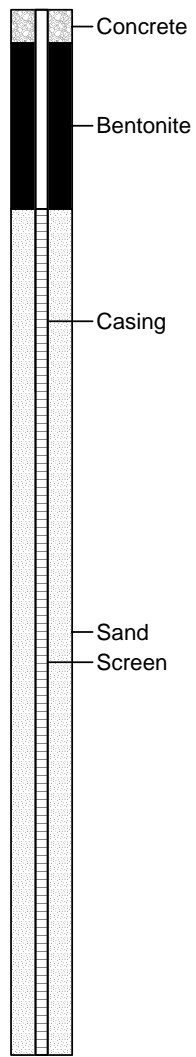
BORING CONTRACTOR: Odyssey Environmental, Inc.

DRILLING RIG:

ELEVATION:

GROUNDWATER DATA

DATE	TIME	DEPTH	CASING	Type	Boring	Screen	Casing				DATUM:
4/17/14		10'		Dia.	HSA	PVC	PVC				DATE START: 4/17/14
				Length	15.75'						DATE FINISH: 4/17/14
				Slot							DRILLER: Zach
											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 ---2 inches gray sandstone cobble	
3							
4						Brown SILT with gray and red mottles ---dry	
5				0			
6							
7	13.2		5.0/5.0				
8							
9						Gray clayey SILT with some fine sand ---wet	
10				0			 <p>Concrete</p> <p>Bentonite</p> <p>Casing</p> <p>Sand</p> <p>Screen</p>
11						Brown SILT with red and gray mottles ---dry	
12							
13	13.3		5.0/5.0			Brown silty SAND and gravel ---dry	
14							
15				0		---wet	
16							
17	13.4		4.0/5.0				
18							
19							
20							



CONVERSE CONSULTANTS
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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.

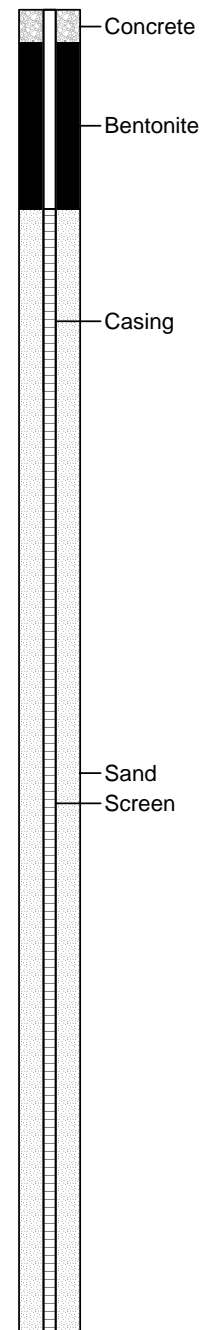
DRILLING RIG:

ELEVATION:

GROUNDWATER DATA

DATE	TIME	DEPTH	CASING	Type	Boring	Screen	Casing				DATUM:
4/17/14		15-18'		Dia.	HSA	PVC	PVC				DATE START: 4/17/14
				Length	21'						DATE FINISH: 4/17/14
				Slot							DRILLER: Zach
											CONVERSE REP.: MK

Depth in Feet	Sample No.	Blow Counts	Recovery In Feet	PID Readings	USCS	DESCRIPTION	MW-14
0						Dark brown, silty fine SAND	
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							





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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

DATE	TIME	DEPTH	CASING	Type	Boring	Screen	Casing				DATUM:
4/17/14		10'		Dia.	HSA	PVC	PVC				DATE START: 4/17/14
				Length	15'						DATE FINISH: 4/17/14
				Slot							DRILLER: Zach
											CONVERSE REP.: MK

Depth in Feet	Sample No.	Blow Counts	Recovery In Feet	PID Readings	USCS	DESCRIPTION	MW-15
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							
5				0			Casing
6							
7							
8	15.2		5.0/5.0			Brown fine SAND with gravel and cobbles ---wet to moist	
9							
10				0			Sand Screen
11							
12							
13	15.3		3.0/5.0				
14							
15							
16							
17							
18							
19							
20							



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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.

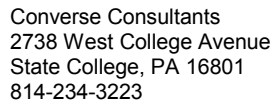
DRILLING RIG:

ELEVATION:

GROUNDWATER DATA

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	Concrete
1							Bentonite
2	16.1		2.0/5.0				
3							
4							Casing
5				0		Brown, silty, fine SAND ---dry	
6	16.2		2.5/5.0			Brown, fine SAND ---wet	
7						Brown, sandy SILT ---dry	
8							
9							Sand
10				0		Brown, fine, sandy GRAVEL ---wet	Screen
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							



PAGE 1 OF 1

CLIENT <u>Woodloch</u>	PROJECT NAME <u>Rosemergy</u>
PROJECT NUMBER <u>11-17788-03</u>	PROJECT LOCATION <u>The Market at Woodloch</u>
DATE STARTED <u>10/29/15</u> COMPLETED <u>10/29/15</u>	GROUND ELEVATION _____ HOLE SIZE <u>8 inches</u>
DRILLING CONTRACTOR <u>Odyssey Environmental</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>SK, JG</u> CHECKED BY <u>OBC</u>	AT END OF DRILLING <u>---</u>
NOTES _____	▽ 44hrs AFTER DRILLING <u>6.12 ft</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0							
	17.1	100	ML		(ML) SILT w/some sandstone cobbles, dark brown (MH) CLAYEY SILT, brown and gray mottled		Concrete Seal Bentonite Seal
5			ML		(ML) SILT, reddish-brown	PID = 0	
	17.2	100			(SW) GRAVELLY SAND, fine, w/cobbles, wet to moist	PID = 0	
10			SW			PID = 0	Screened Interval
15	17.3	100					

Bottom of borehole at 15.0 feet.

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/18/15 12:03 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\ROSEMERGY NEW WELLS INSTALL.GPJ

CLIENT Woodloch

PROJECT NAME Rosemergy

PROJECT NUMBER 11-17788-03

PROJECT LOCATION The Market at Woodloch

DATE STARTED 10/28/15 **COMPLETED** 10/28/15

GROUND ELEVATION _____ **HOLE SIZE** 8 inches

DRILLING CONTRACTOR Odyssey Environmental

GROUND WATER LEVELS:

DRILLING METHOD Hollow Stem Auger

AT TIME OF DRILLING ---

LOGGED BY SK, JG **CHECKED BY** OBC

AT END OF DRILLING ---

NOTES

65hrs AFTER DRILLING 13.13 ft

[illegible]

Refusal at 18.0 feet.
Bottom of borehole at 18.0 feet.



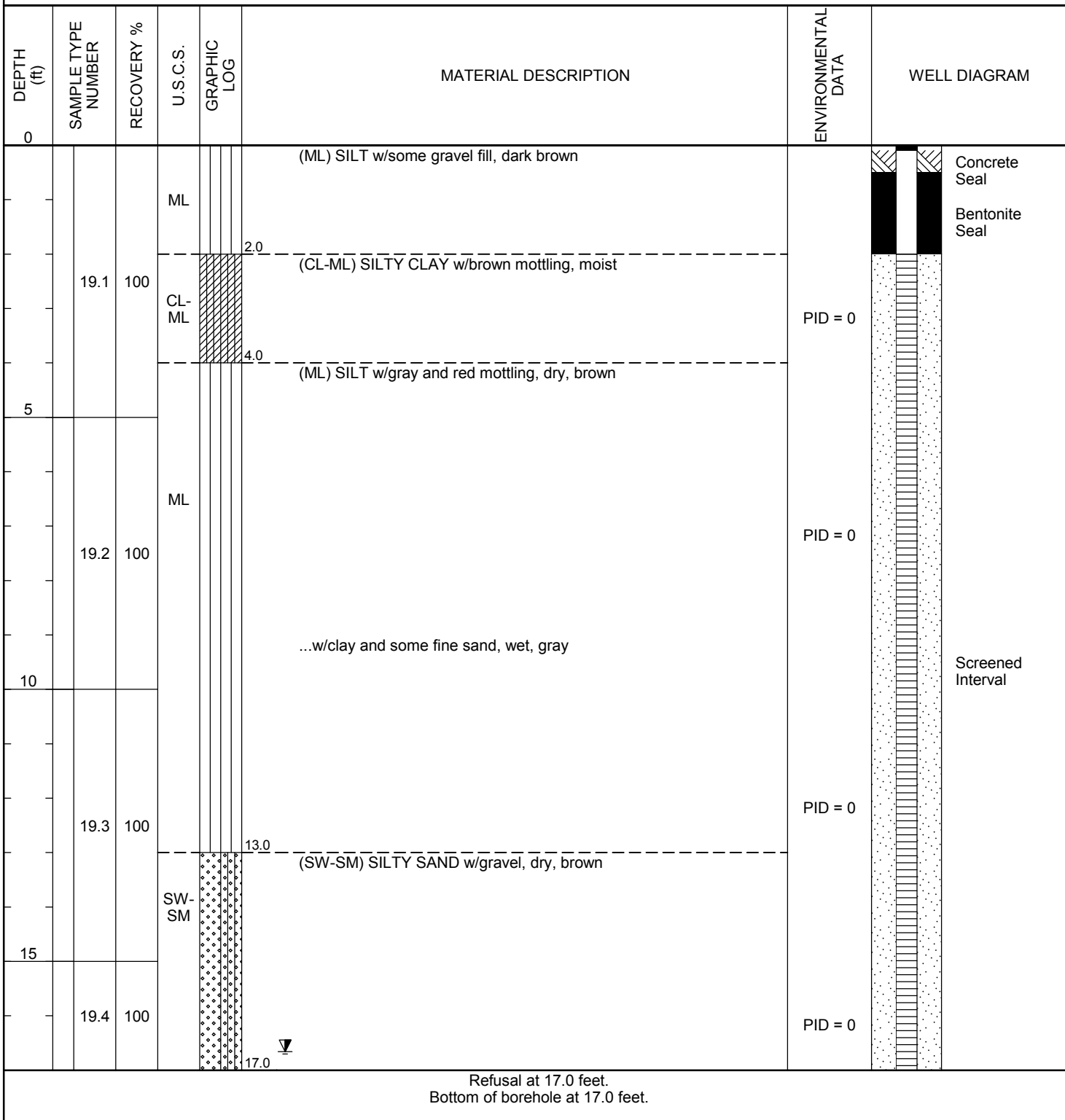
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814-234-3223

WELL NUMBER MW-19

PAGE 1 OF 1

CLIENT <u>Woodloch</u>	PROJECT NAME <u>Rosemergy</u>
PROJECT NUMBER <u>11-17788-03</u>	PROJECT LOCATION <u>The Market at Woodloch</u>
DATE STARTED <u>10/28/15</u> COMPLETED <u>10/28/15</u>	GROUND ELEVATION _____ HOLE SIZE <u>8 inches</u>
DRILLING CONTRACTOR <u>Odyssey Environmental</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>SK, JG</u> CHECKED BY <u>OBC</u>	AT END OF DRILLING <u>---</u>
NOTES _____	66hrs AFTER DRILLING <u>16.66 ft</u>

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/18/15 12:03 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\ROSEMERGY NEW WELLS INSTALL.GPJ





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WELL NUMBER MW-20

PAGE 1 OF 1

CLIENT <u>Woodloch</u>	PROJECT NAME <u>Rosemergy</u>
PROJECT NUMBER <u>11-17788-03</u>	PROJECT LOCATION <u>The Market at Woodloch</u>
DATE STARTED <u>10/29/15</u> COMPLETED <u>10/29/15</u>	GROUND ELEVATION _____ HOLE SIZE <u>8 inches</u>
DRILLING CONTRACTOR <u>Odyssey Environmental</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>SK, JG</u> CHECKED BY <u>OBC</u>	AT END OF DRILLING <u>---</u>
NOTES _____	40hrs AFTER DRILLING <u>1.34 ft</u>

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/18/15 12:03 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\ROSEMERGY NEW WELLS INSTALL.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0							
	20.1	100	GW		(GW) SANDY GRAVEL w/silt, fine, dry, brown ▼	PID = 0	Concrete Seal Bentonite Seal
5							
	20.2	100	SW-SM		(SW-SM) SILTY SAND, fine, dry, brown ...wet	PID = 0	
10							
	20.3	100	GW		(GW) SANDY GRAVEL, fine, wet, brown	PID = 0	
			SW-SM		(SW-SM) SILTY SAND w/some pockets of gravel and clay, fine, wet, brown with some green and red mottling	PID = 0	
15							

Bottom of borehole at 15.0 feet.

Screened Interval



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WELL NUMBER MW-21

PAGE 1 OF 1

CLIENT	Woodloch	PROJECT NAME	Rosemergy
PROJECT NUMBER	11-17788-03	PROJECT LOCATION	The Market at Woodloch
DATE STARTED	10/29/15	COMPLETED	10/29/15
DRILLING CONTRACTOR	Odyssey Environmental	GROUND ELEVATION	
DRILLING METHOD	Hollow Stem Auger	HOLE SIZE	8 inches
LOGGED BY	SK, JG	CHECKED BY	OBC
NOTES			
		GROUND WATER LEVELS:	
		AT TIME OF DRILLING	---
		AT END OF DRILLING	---
		42hrs AFTER DRILLING	1.20 ft

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/18/15 12:03 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\ROSEMERGY NEW WELLS INSTALL.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0							
	21.1	100	GW		(GW) SANDY GRAVEL w/silt, fine, dry, brown ▼	PID = 0	
5	21.2	100	SW-SM		(SW-SM) SILTY SAND, fine, dry, brown	PID = 0	
10	21.3	100	GW		(GW) SANDY GRAVEL, fine, wet, brown ...w/more silt	PID = 0	
15					Bottom of borehole at 15.0 feet.		



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WELL NUMBER MW-22

PAGE 1 OF 1

CLIENT	Woodloch	PROJECT NAME	Rosemergy
PROJECT NUMBER	11-17788-03	PROJECT LOCATION	The Market at Woodloch
DATE STARTED	10/29/15	COMPLETED	10/29/15
DRILLING CONTRACTOR	Odyssey Environmental	GROUND ELEVATION	
DRILLING METHOD	Hollow Stem Auger	HOLE SIZE	8 inches
LOGGED BY	SK, JG	CHECKED BY	OBC
NOTES			
		GROUND WATER LEVELS:	
		AT TIME OF DRILLING	---
		AT END OF DRILLING	---
		44hrs AFTER DRILLING	0.67 ft

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/18/15 12:03 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\ROSEMERGY NEW WELLS INSTALL.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0							
	22.1	100	GW		(GW) SANDY GRAVEL w/silt, fine, dry, brown 5.0	PID = 0	
5	22.2	100	SW-SM		(SW-SM) SILTY SAND, fine, dry, brown 10.0	PID = 0	
10	22.3	100	GW		(GW) SANDY GRAVEL, fine, wet, brown 12.0	PID = 0	
			SW-SM		(SW-SM) SILTY SAND w/gravel (more with depth) 15.0	PID = 0	
15							

Bottom of borehole at 15.0 feet.



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 (OWI), landfill disposal (LFI) 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:

$$\text{Benzene} = 2.5 \text{ ppbv} (0.0025 \text{ ppmv})$$

$$\text{Benzene MW} = 78.11 \text{ grams per mole}$$

$$\text{Laboratory assumed sample temperature} = 20^\circ\text{C}$$

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**

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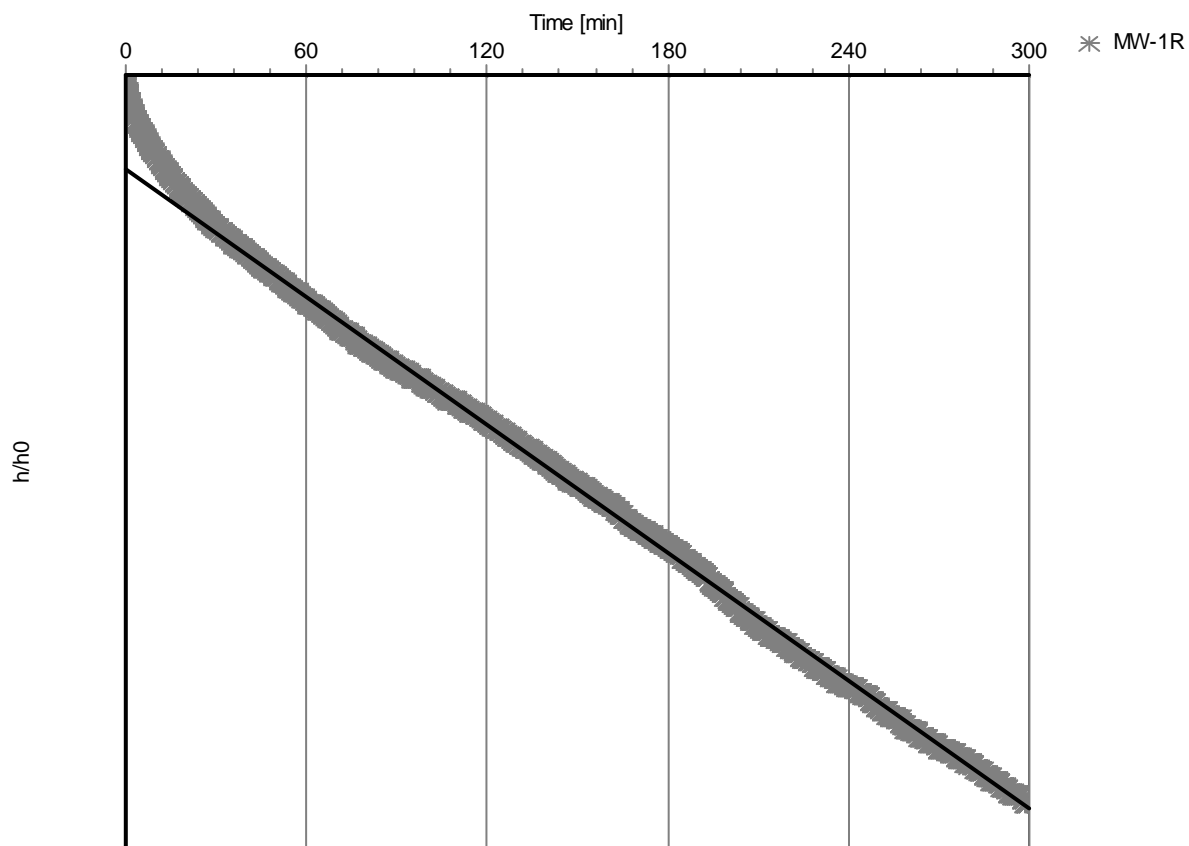
Phone: 814-234-3223

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

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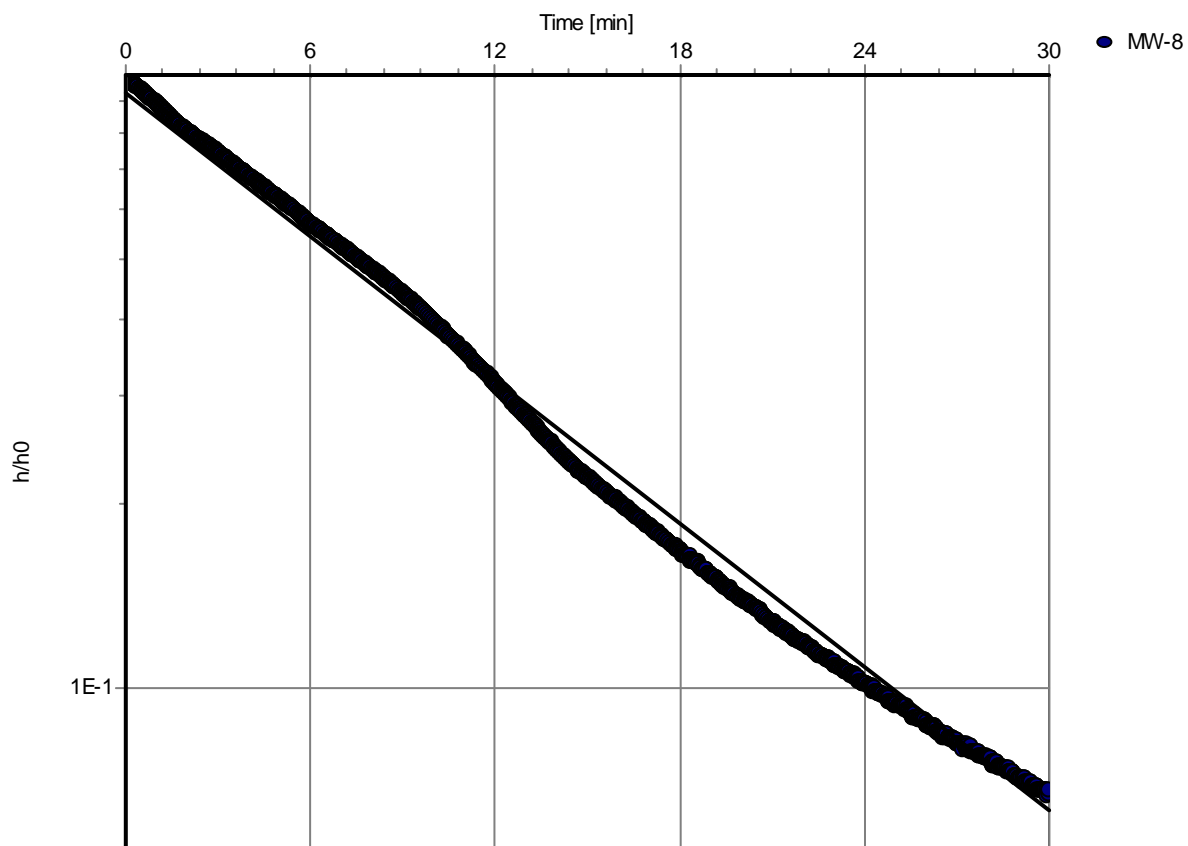
Phone: 814-234-3223

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 Test**Analysis Method: **Bouwer & Rice**Analysis 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

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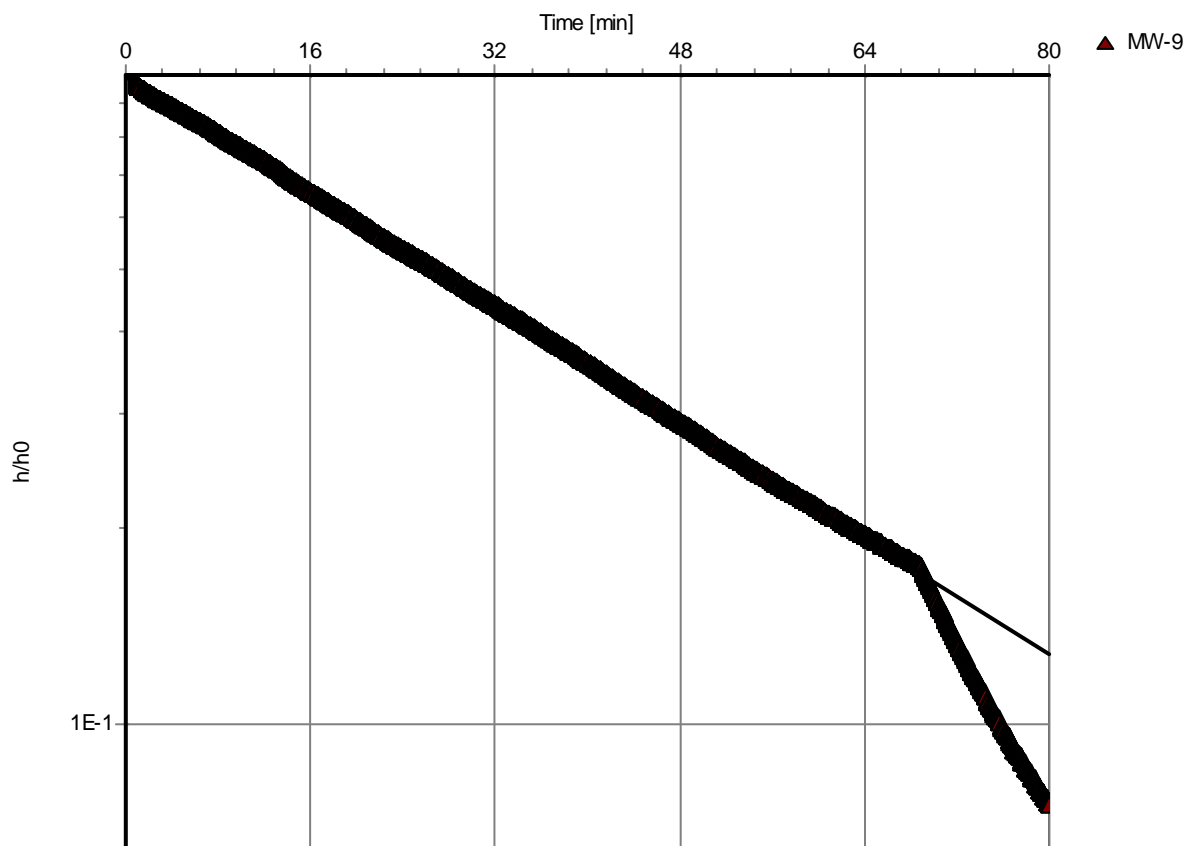
Phone: 814-234-3223

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 Test**Analysis Method: **Bouwer & Rice**Analysis 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

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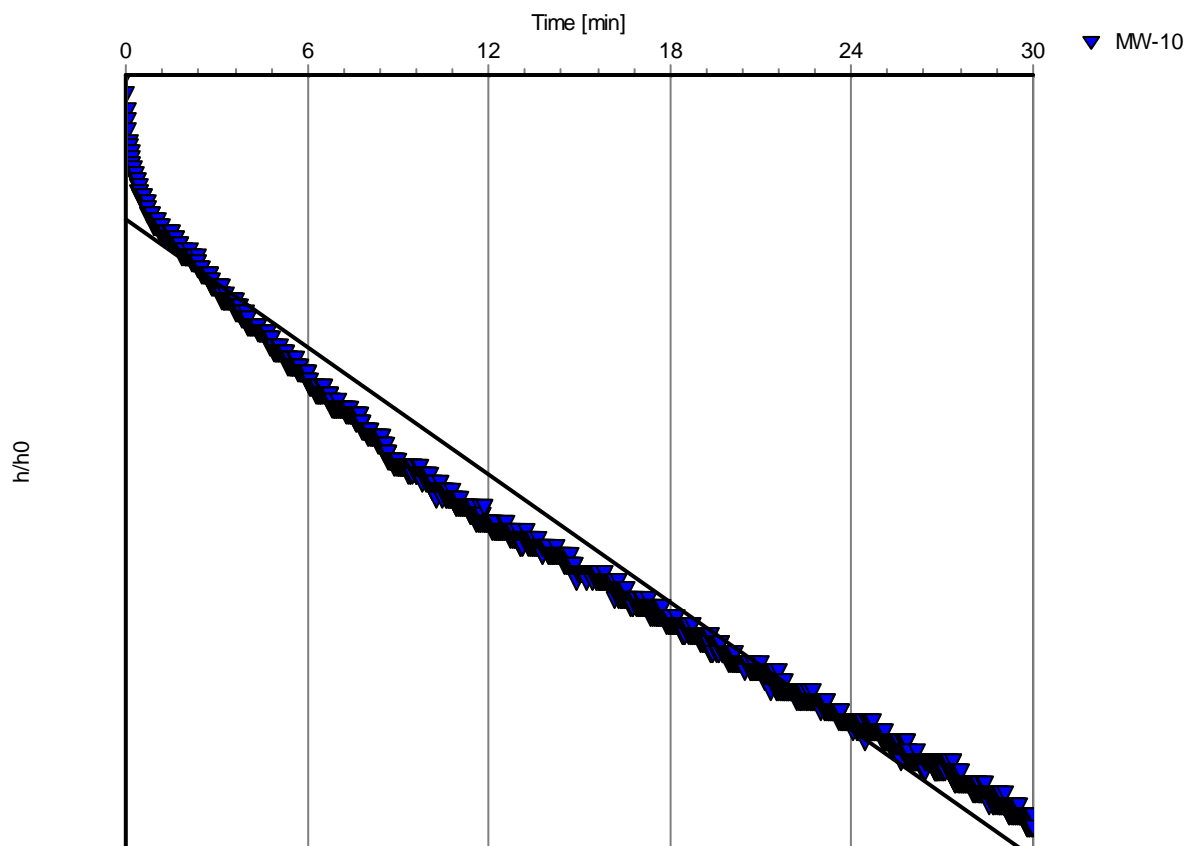
Phone: 814-234-3223

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 Test**Analysis Method: **Bouwer & Rice**Analysis 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

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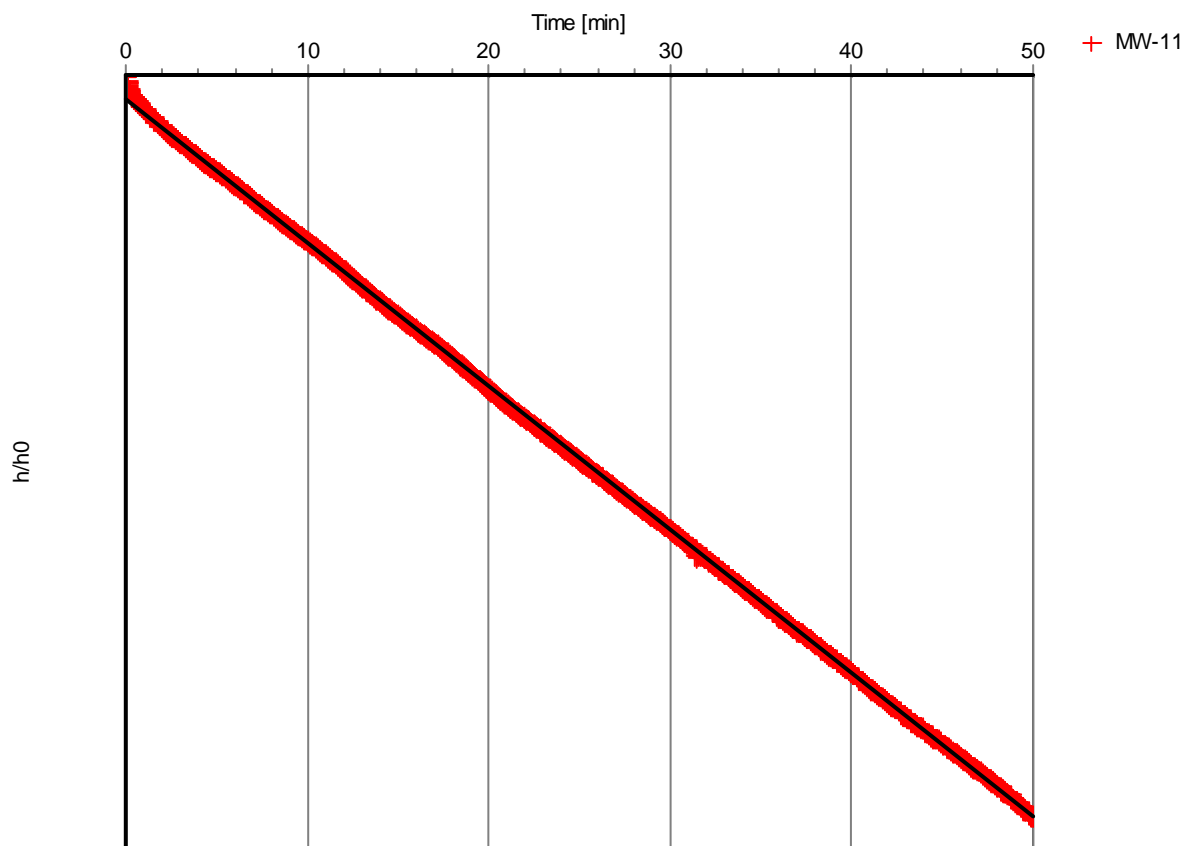
Phone: 814-234-3223

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

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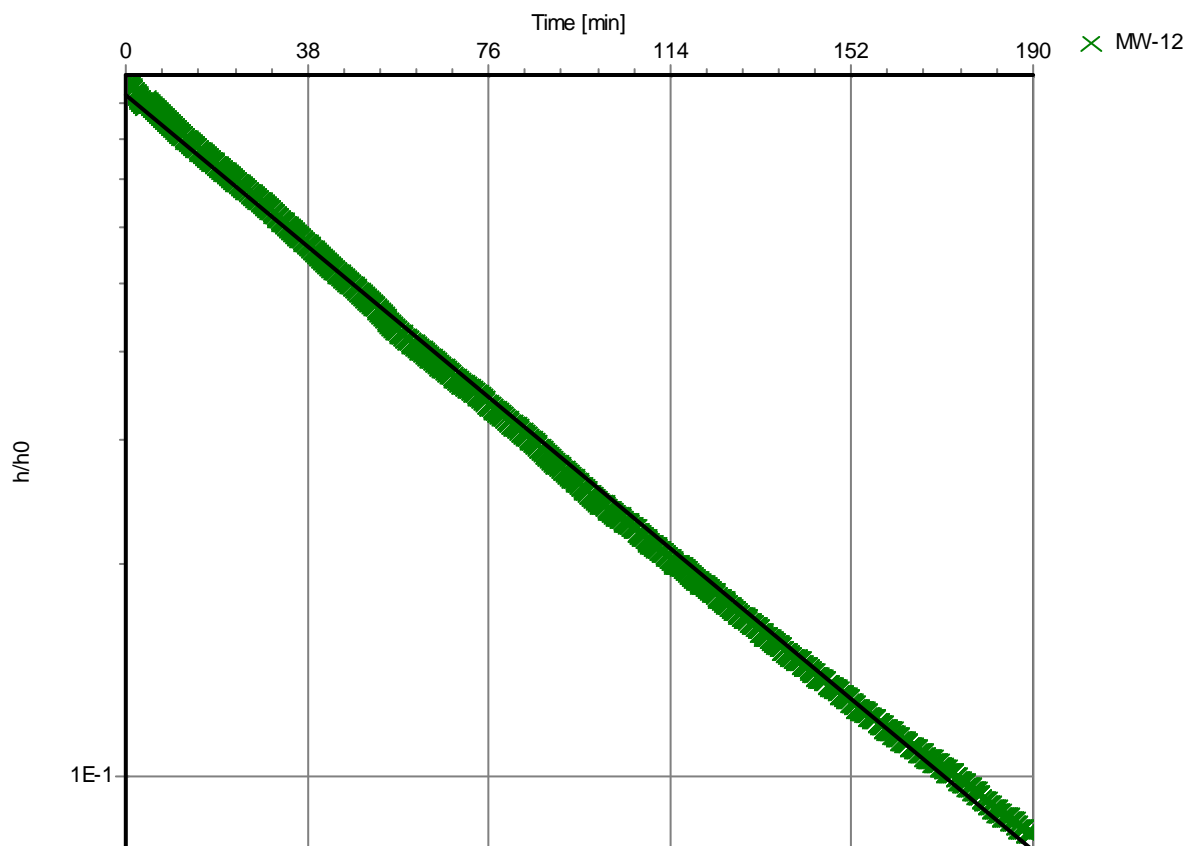
Phone: 814-234-3223

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

Former Rosemergy's, Hawley, PA - Triple Well Test - DPE-1, 4, and 5

11-17788-03

DATE 3/12/15	TIME	IN HG	TEMP IN (°F)	TEMP OUT (°F)	SCFM (In) X 10	SCFM (Out) X 10	GALLONS TREATED	SCFM Well Head(s)	Make Up Air
Initial	1:00 PM	15*	50	60	0	0	74846.4	0.00	0
	1:10 PM	20.5	50	132	3.5	16	74846.4	4.58	>50
	1:20 PM	20.5	50	138	3.5	16	74862.9	4.58	>50
	1:30 PM	21.0	52	140	3.5	16	74884.2	4.58	>50
	1:40 PM	21.5	52	140	3.5	16	74884.2	4.58	>50
	1:50 PM	21.5	52	140	3.5	16	74884.2	4.58	>50
	2:00 PM	21.5	52	140	3.5	16	74893.2	4.58	>50
	2:10 PM	21.5	52	140	3.5	16	74921.3	4.58	>50
	2:20 PM	21.0	52	140	3.75	16.5	74921.3	4.58	>50
	2:30 PM	21.0	52	140	3.75	16.5	74921.3	4.58	>50
	2:40 PM	21.0	52	140	3.75	16.5	74921.3	4.58	>50
	2:51 PM	21.0	54	140	3.75	16.5	74960.0	4.58	>50
	3:00 PM	21.0	54	140	3.75	16.5	74960.0	4.58	>50
	3:10 PM	21.0	54	140	3.75	16.5	74960.0	4.58	>50
	3:20 PM	21.0	54	140	3.75	17	74960.0	4.58	>50
	3:30 PM	21.0	54	140	3.75	17	74960.0	4.58	>50
	3:40 PM	21.0	54	140	3.75	17	74998.0	4.58	>50
	3:50 PM	21.0	54	140	4	17	74998.0	4.58	>50
	4:00 PM	21.0	54	140	4	17	74998.0	4.58	>50
Final	4:13 PM	15.0	50	100	0	0	75080.5	0	0
*Gauge broke, cannot repair or replace									

Former Rosemergy's, Hawley, PA - Triple Well Test - DPE-1, 4, and 5

11-17788-03

MONITORING WELL	DISTANCE TO TEST WELL (appx. ft)	TIME	WATER LEVEL (ft)	VACUUM (in H2O)
MW-1R	22	1:00 PM	8.48	0
		1:15 PM	8.46	0
		1:28 PM	8.46	0
		1:44 PM	8.49	0
		2:00 PM	8.5	0
		2:15 PM	8.5	0
		2:30 PM	8.51	0.1
		2:45 PM	8.52	0
		3:01 PM	8.52	0.1
		3:16 PM	8.54	0.1
		3:31 PM	8.55	0.1
		3:46 PM	8.54	0.1
		3:56 PM	8.55	0.1
DPE-2	27	1:00 PM	4.28	0
		1:13 PM	4.27	0
		1:27 PM	4.29	0
		1:43 PM	4.3	0
		1:58 PM	4.31	0
		2:13 PM	4.33	0
		2:27 PM	4.36	0
		2:42 PM	4.37	0
		2:57 PM	4.37	0.1
		3:15 PM	4.37	0
		3:27 PM	4.37	0
		3:45 PM	4.35	0
		3:53 PM	4.37	0
DPE-8	21	1:00 PM	7.31	0
		1:18 PM	7.33	1.7
		1:32 PM	7.34	1.9
		1:47 PM	7.4	2
		2:02 PM	7.4	2.2
		2:17 PM	7.43	2
		2:32 PM	7.41	2.4
		2:47 PM	7.46	2.5
		3:02 PM	7.47	2.6
		3:17 PM	7.49	2.1
		3:32 PM	7.49	2.2
		3:47 PM	7.51	2.4
		3:58 PM	7.5	2.5

DPE-7	19	1:00 PM	6	0
		1:16 PM	5.53	1.3
		1:31 PM	5.56	1.7
		1:46 PM	5.53	1.7
		2:04 PM	5.67	1.9
		2:19 PM	5.69	2.2
		1:34 PM	5.7	2.2
		2:49 PM	5.75	2.4
		3:04 PM	5.94	2.5
		3:19 PM	5.77	2.3
		3:34 PM	5.78	2.5
		3:49 PM	5.82	2.5
		4:00 PM	5.8	2.6
MW-5	12.5	1:00 PM	4.82	0.1
		1:12 PM	4.77	0.1
		1:30 PM	4.77	0.1
		1:42 PM	4.78	0.1
		1:59 PM	4.79	0.1
		2:12 PM	4.82	0.1
		2:28 PM	4.85	0.1
		2:42 PM	4.85	0.1
		3:00 PM	4.87	0.1
		3:12 PM	4.88	0.1
		3:29 PM	4.9	0.1
		3:42 PM	4.91	0.1
		3:55 PM	4.9	0.1

Former Rosemergy's, Hawley, PA - DPE-3

11-17788-03

DATE 3/11/15	TIME	IN HG	TEMP IN (°F)	TEMP OUT (°F)	SCFM (In) X 10	SCFM (Out) X 10	GALLONS TREATED	SCFM Well Head(s)	Make Up Air
Initial	3:30 PM	0	52	35	0	0	74664.3	0.00	0
	3:50 PM	7	52	138	<1	16	74664.3	1.25	>50
	4:10 PM	7	55	150	<1	16	74664.3	1.25	>50
	4:30 PM	7	55	153	<1	16	74676.0	1.25	>50
	4:50 PM	9	56	150	<1	15	74695.7	1.70	>50
	5:00 PM	10	55	160	1	15	74695.7	1.70	>50
	5:15 PM	10	58	165	1	15	74733.9	1.70	>50
	5:33 PM	12	59	171	1.5	12	74776.5	2.10	>50
	5:45 PM	12	59	184	1.5	12	74776.5	2.10	>50
	6:00 PM	12	55	185	1.5	12	74820.5	2.10	>50
Final	6:05 PM	0	55	140	0	0	74846.3	0.00	0
Note: no vacuum or water level dradown observed in nearby wells									

Former Rosemergy's, Hawley, PA - DPE-3

11-17788-03

MONITORING WELL	DISTANCE TO TEST WELL (appx. ft)	TIME	WATER LEVEL (ft)	VACUUM (in H2O)
MW-3	15	3:50 PM	4.89	0
		4:06 PM	4.95	0
		4:25 PM	4.89	0
		4:40 PM	4.91	0
		4:55 PM	4.94	0
		5:10 PM	4.9	0
		5:25 PM	4.91	0
		5:40 PM	4.92	0
		5:57 PM	4.89	0
MW-4	21	3:50 PM	2.37	0
		4:09 PM	2.17	0
		4:27 PM	2.11	0
		4:42 PM	2.01	0
		4:57 PM	2.00	0
		5:12 PM	2.00	0
		5:27 PM	2.00	0
		5:42 PM	2.00	0
		5:59 PM	1.99	0
MW-5	28	3:50 PM	5.74	0
		4:05 PM	5.7	0
		4:23 PM	5.7	0
		4:38 PM	5.63	0
		4:53 PM	5.67	0
		5:08 PM	5.68	0
		5:23 PM	5.74	0
		5:38 PM	5.68	0
		5:56 PM	5.68	0
DPE-2	28	3:50 PM	5.32	0
		4:08 PM	5.22	0
		4:22 PM	5.25	0
		4:37 PM	5.25	0
		4:52 PM	5.23	0
		5:07 PM	5.23	0
		5:22 PM	5.25	0
		5:37 PM	5.23	0
		5:55 PM	5.21	0

Former Rosemergy's, Hawley, PA - DPE-6

11-17788-03

DATE 3/12/15	TIME	IN HG	TEMP IN (°F)	TEMP OUT (°F)	SCFM (In) X 10	SCFM (Out) X 10	GALLONS TREATED	SCFM Well Head(s)	Make Up Air
Initial	8:44 AM	0	31	15	0	0	74846.3	0.00	0
	9:00 AM	10	31	95	1.5	16	74846.3	3.30	>50
	9:10 AM	16*	31	120	1.5	16	74846.3	2.50	>50
	9:20 AM	17	35	130	1.5	16	74846.3	2.50	>50
	9:30 AM	17	40	135	1.5	16	74846.3	2.50	>50
	9:40 AM	18	41	138	1.5	16	74846.3	2.50	>50
	9:50 AM	18	45	138	1.5	16	74846.3	2.50	>50
	10:00 AM	19	47	140	1.5	16	74846.3	2.50	>50
	10:12 AM	18	50	142	1.5	16	74846.3	2.50	>50
	10:20 AM	18	50	142	1.5	16	74846.3	2.50	>50
	10:30 AM	19	50	144	1.5	16	74846.3	2.50	>50
Final	10:34 AM	10	50	130	0	0	74846.3	0	0
* Gauge malfunction, continued with test									

Former Rosemergy's, Hawley, PA - DPE-6

11-17788-03

MONITORING WELL	DISTANCE TO TEST WELL (appx. ft)	TIME	WATER LEVEL (ft)	VACUUM (in H2O)
MW-7	5.5	8:44 AM	10.32	0
		9:08 AM	10.51	13
		9:23 AM	10.56	12
		9:38 AM	10.65	12
		9:53 AM	10.68	10
		10:11 AM	10.71	9
		10:20 AM	10.61	10
MW-1R	34	8:44 AM	8.50	0
		9:14 AM	8.48	0
		9:27 AM	8.52	0.1
		9:42 AM	8.51	0
		9:57 AM	8.50	0
		10:13 AM	8.52	0
		10:23 AM	8.50	0
DPE-8	52	8:44 AM	7.34	0
		9:12 AM	7.37	0
		9:29 AM	7.37	0
		9:36 AM	7.33	0
		9:51 AM	7.34	0
		10:17 AM	7.33	0
		10:27 AM	7.31	0
DPE-5	50.5	8:44 AM	6.82	0
		9:10 AM	6.78	0
		9:26 AM	6.78	0
		9:41 AM	6.78	0.1
		9:55 AM	6.77	0
		10:15 AM	6.76	0
		10:25 AM	6.75	0

Former Rosemergy's, Hawley, PA - DPE-7

11-17788-03

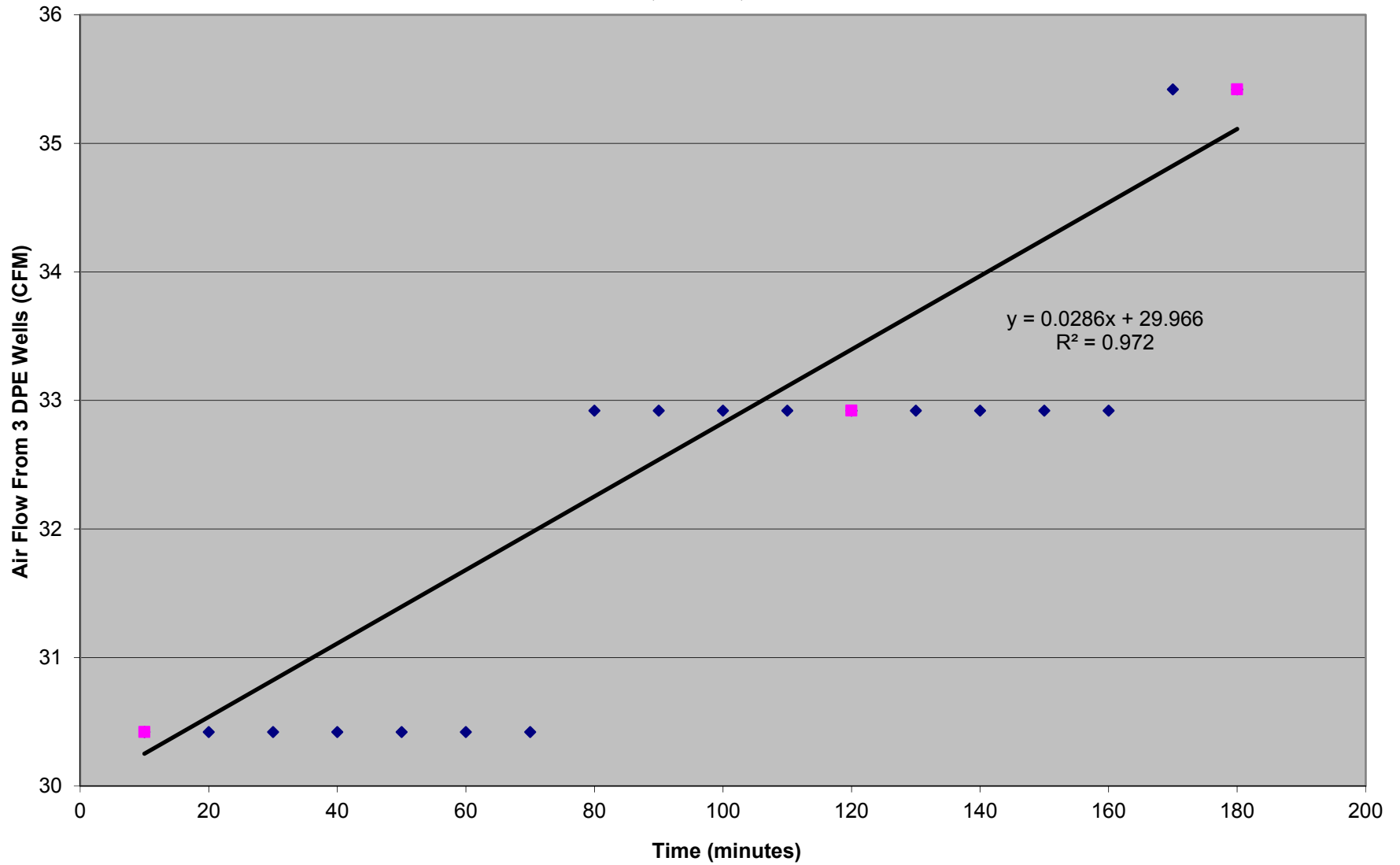
DATE 3/11/15	TIME	IN HG	TEMP IN (°F)	TEMP OUT (°F)	SCFM (In) X 10	SCFM (Out) X 10	GALLONS TREATED	SCFM Well Head(s)	Make Up Air
Initial	10:49 AM	10*	50	30	0	0	74846.3	0.00	0
	10:55 AM	18	50	110	1.5	16	74846.3	3.30	>50
	11:00 AM	18	50	135	1.5	16	74846.3	2.50	>50
	11:10 AM	18	50	140	1.5	16	74846.3	2.50	>50
	11:20 AM	18	52	145	1.5	16	74846.3	2.50	>50
	11:30 AM	18	52	145	1.5	16	74846.3	2.50	>50
	11:40 AM	18	55	145	1.5	16	74846.3	2.50	>50
	11:50 AM	18	55	146	1.5	16	74846.3	2.50	>50
	12:00 PM	19	56	146	1.5	16	74846.3	2.50	>50
	12:10 PM	19	56	146	1.5	16	74846.3	2.50	>50
	12:20 PM	19	56	147	1.5	16	74846.3	2.50	>50
Final	12:30 PM	19	56	148	1.5	16	74846.3	2.50	>50
	12:35 PM	0	56	140	0	0	74846.3	0	0
*Gauge broken, cannot repair or replace									

Former Rosemergy's, Hawley, PA - DPE-7

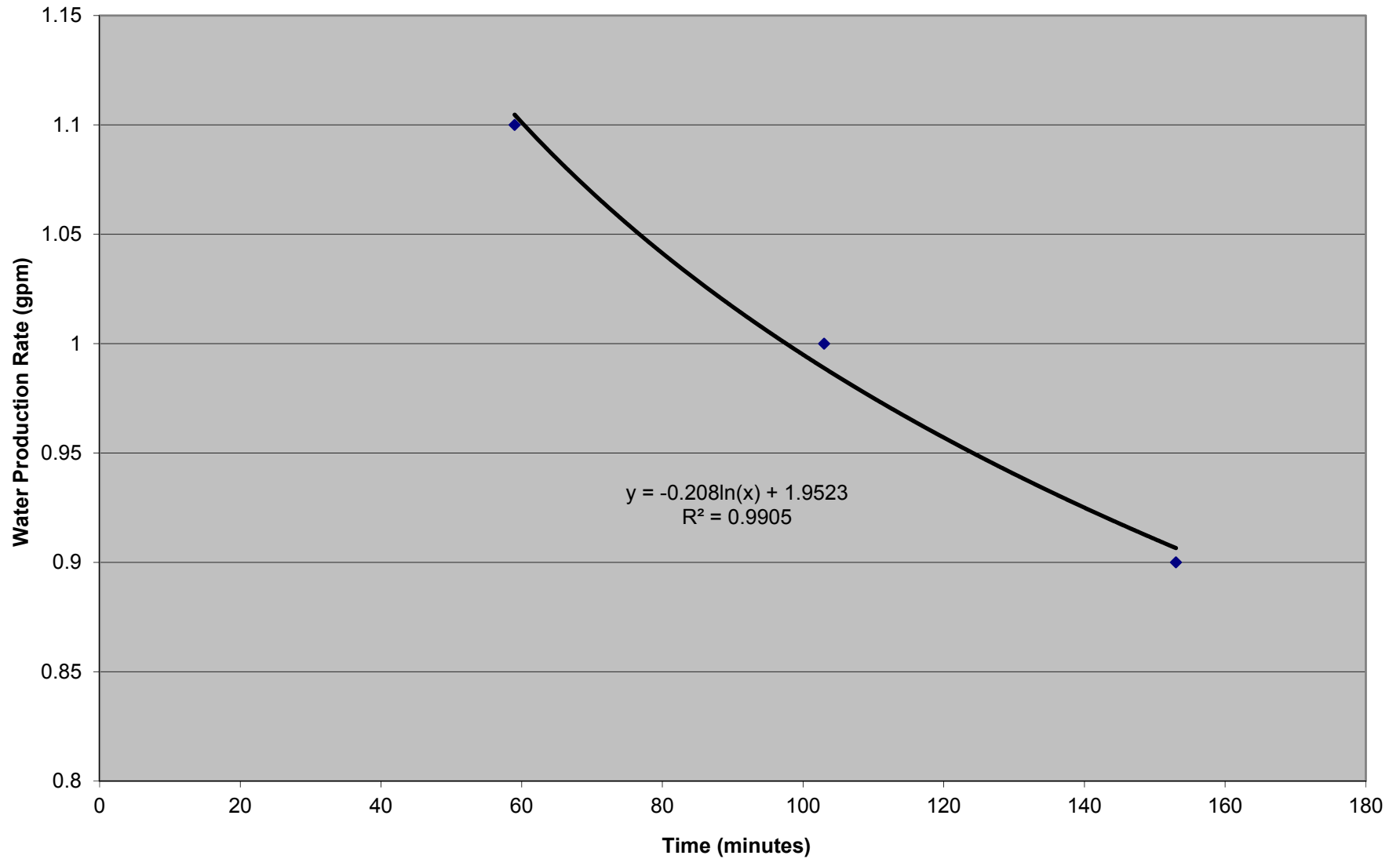
11-17788-03

MONITORING WELL	DISTANCE TO TEST WELL (appx. ft)	TIME	WATER LEVEL (ft)	VACUUM (in H2O)
DPE-4	21	10:49 AM	4.41	0
		11:09 AM	4.37	0.1
		11:25 AM	4.41	0
		11:41 AM	4.44	0.1
		11:56 AM	4.46	0
		12:11 PM	4.51	0
		12:26 PM	4.53	0
DPE-5	23	10:49 AM	6.75	0
		11:11 AM	6.75	0.3
		11:26 AM	6.75	0.4
		11:43 AM	6.76	0.3
		11:57 AM	6.75	0.2
		12:12 PM	6.75	0.3
		12:27 PM	6.75	0.3
DPE-8	23	10:49 AM	7.31	0
		11:12 AM	7.32	0.6
		11:28 AM	7.31	0.4
		11:44 AM	7.32	0.5
		11:59 AM	7.32	0.4
		12:14 PM	7.3	0.5
		12:29 PM	7.31	0.5
MW-5	28	10:49 AM	4.75	0
		11:08 AM	4.82	0.1
		11:24 AM	4.8	0
		11:39 AM	4.8	0.1
		11:57 AM	4.8	0
		12:09 PM	4.79	0
		12:24 PM	4.77	0.1

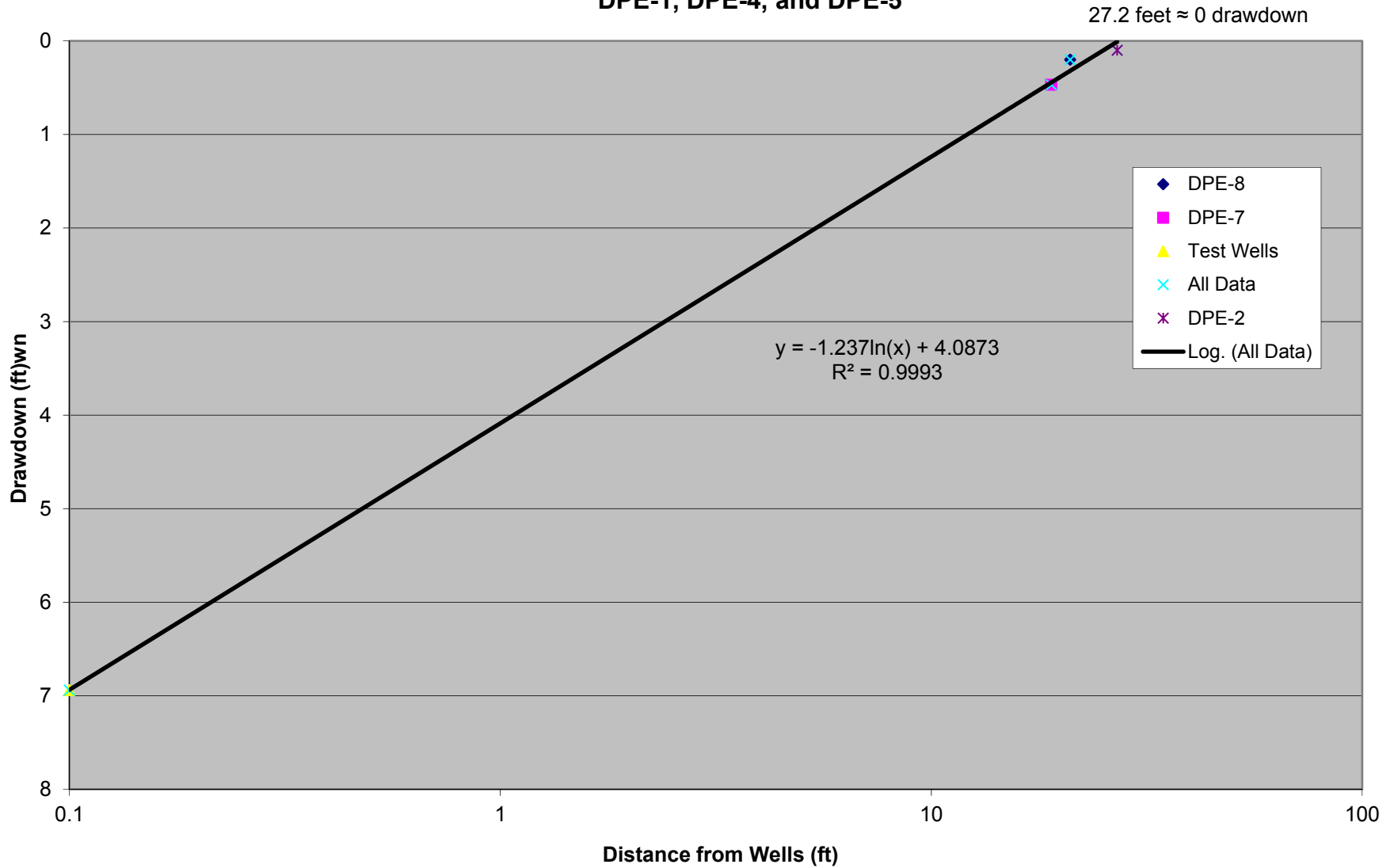
Air Flow Vs Time
DPE-1, DPE-4, and DPE-5



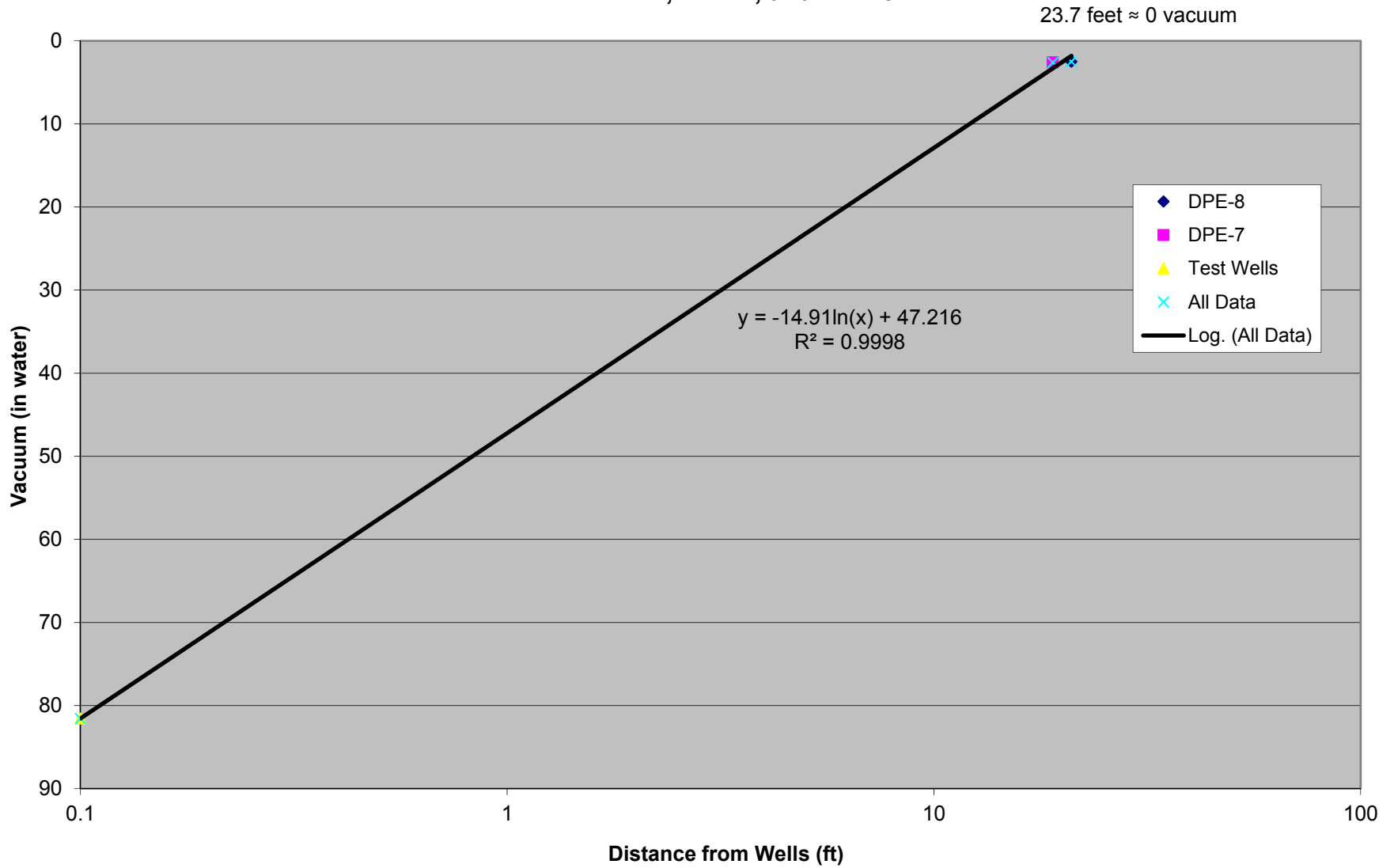
**Water Production Rate
DPE-1, DPE-4, and DPE-5**



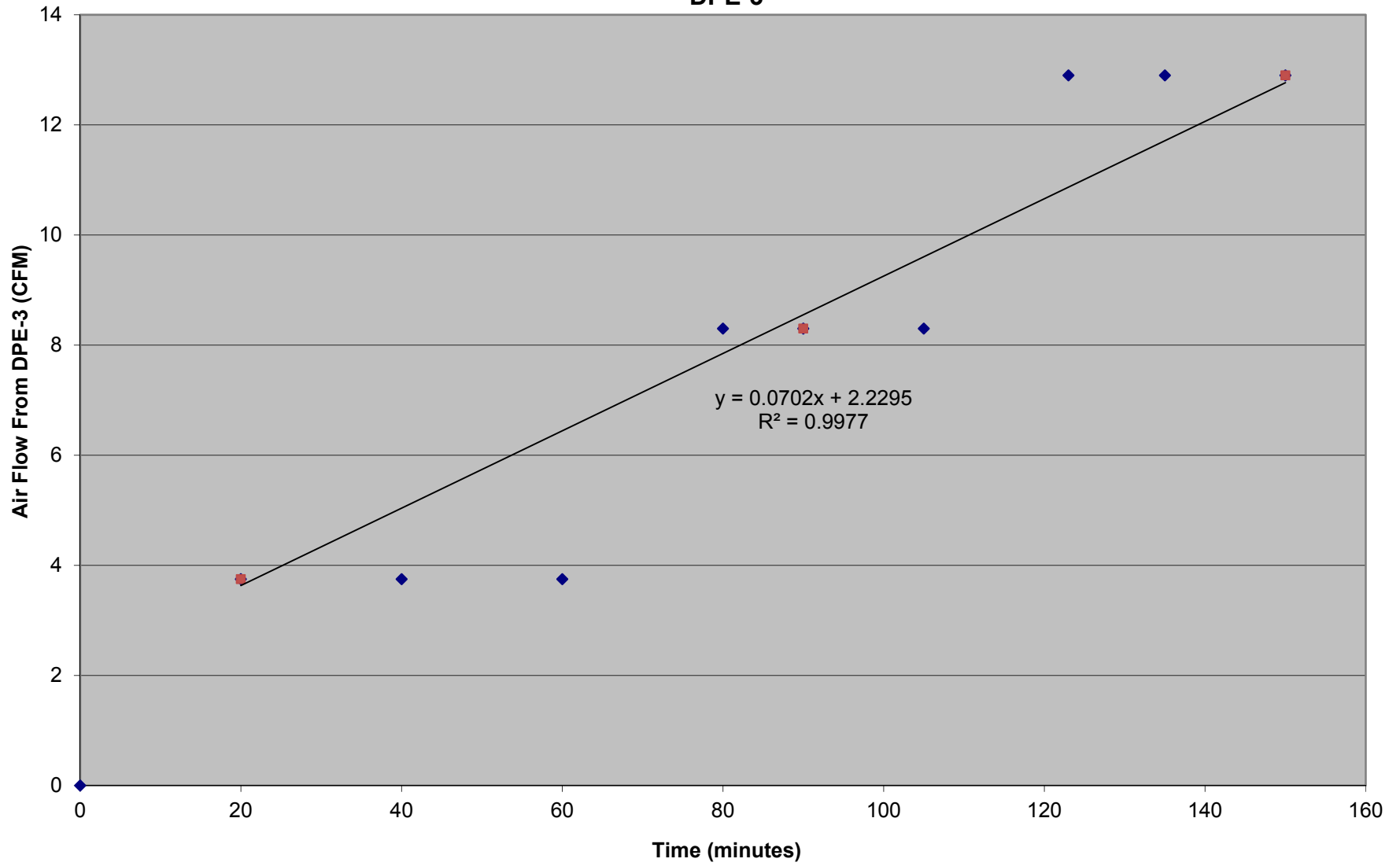
Groundwater Distance Drawdown Graph DPE-1, DPE-4, and DPE-5



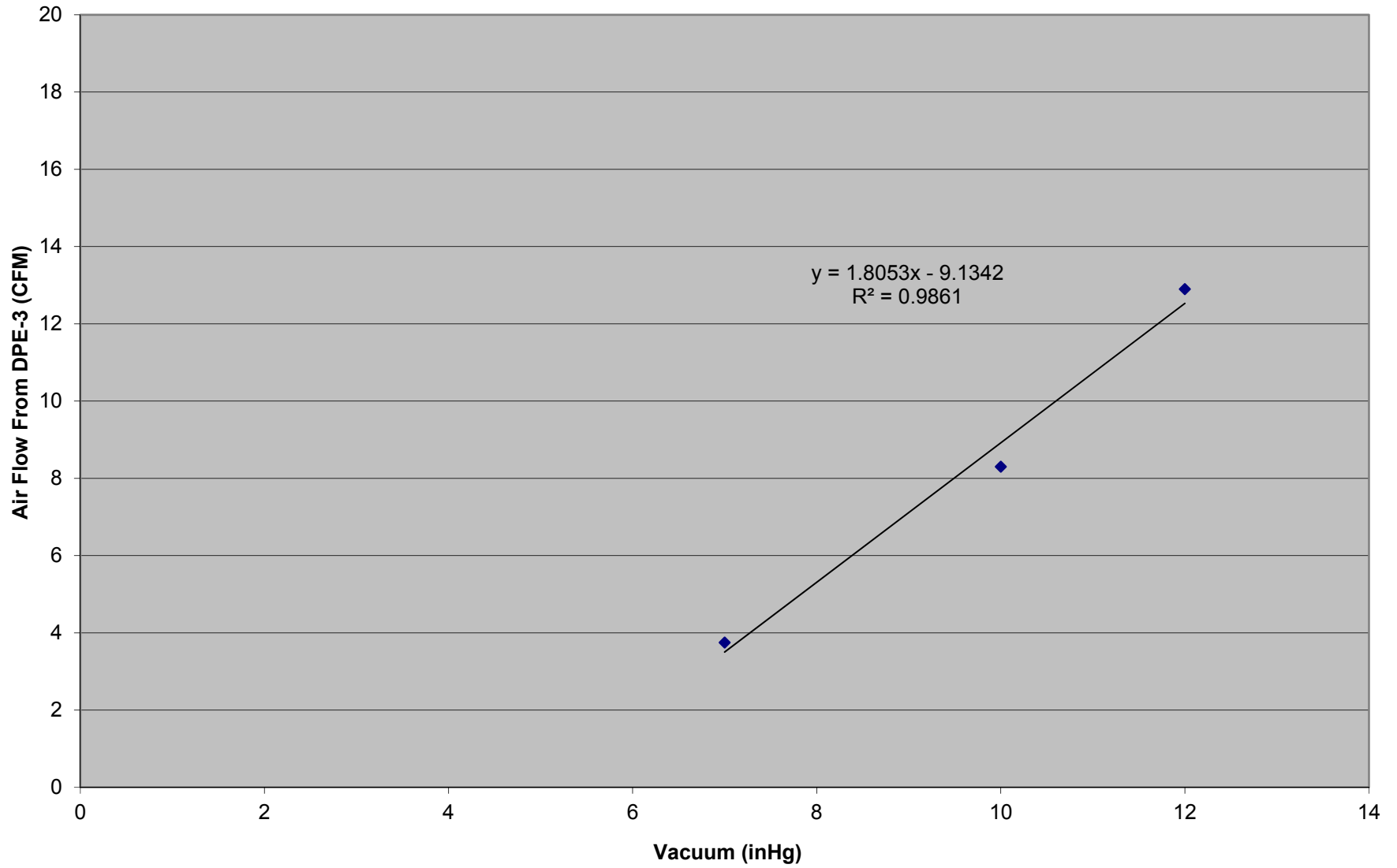
Air Distance Vacuum Graph DPE-1, DPE-4, and DPE-5



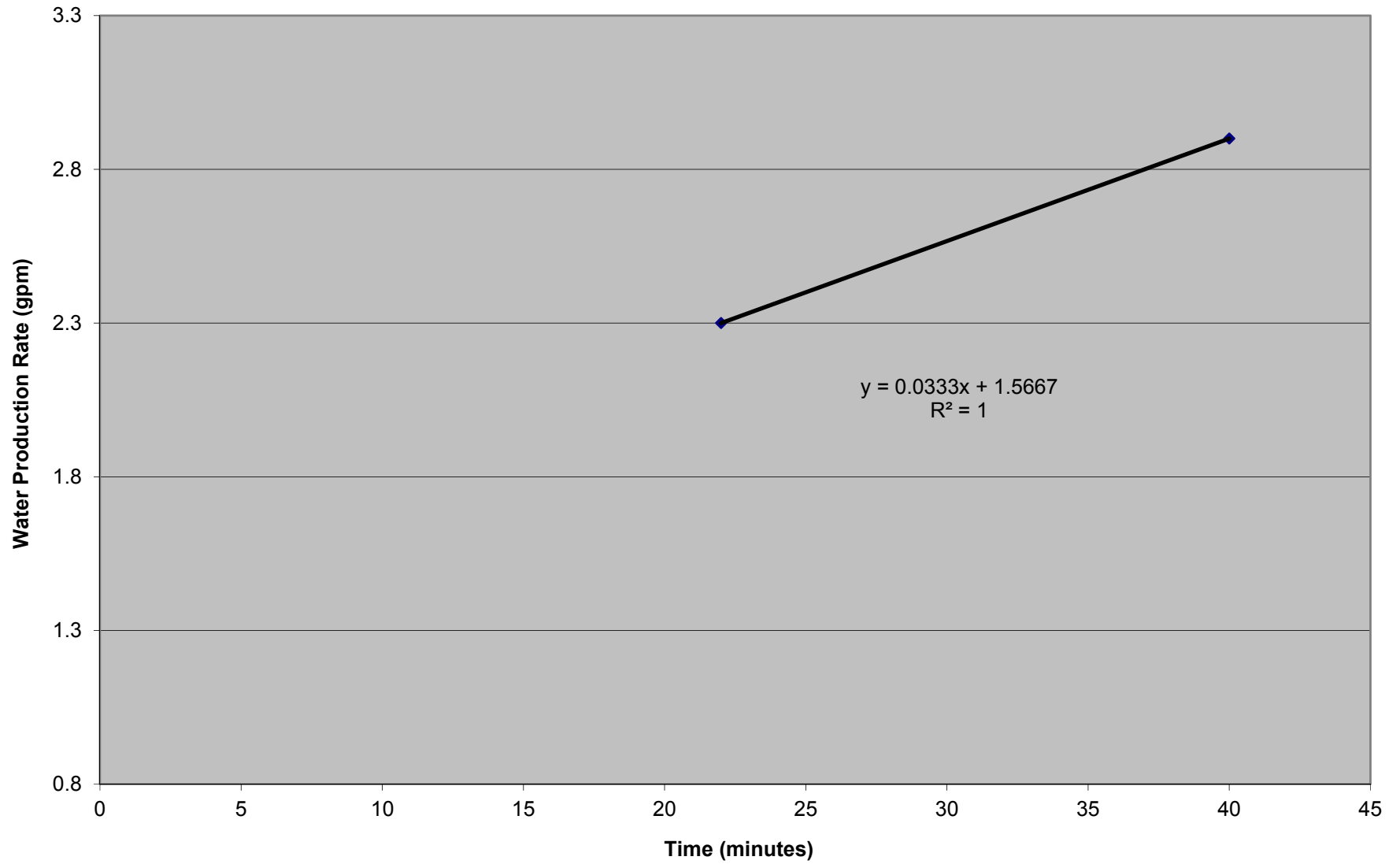
Air Flow Vs Time
DPE-3



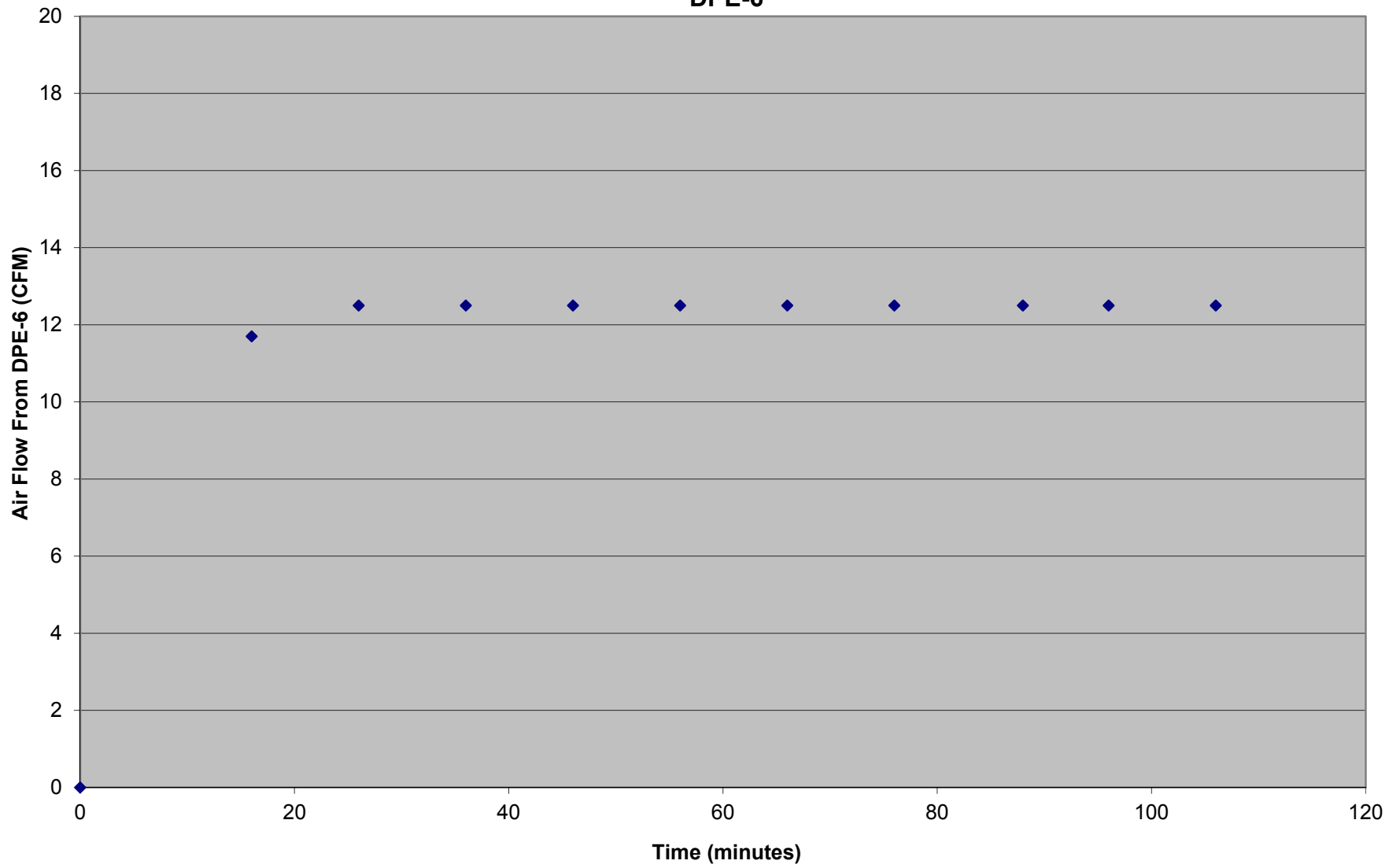
Air Flow Vs Vacuum
DPE-3



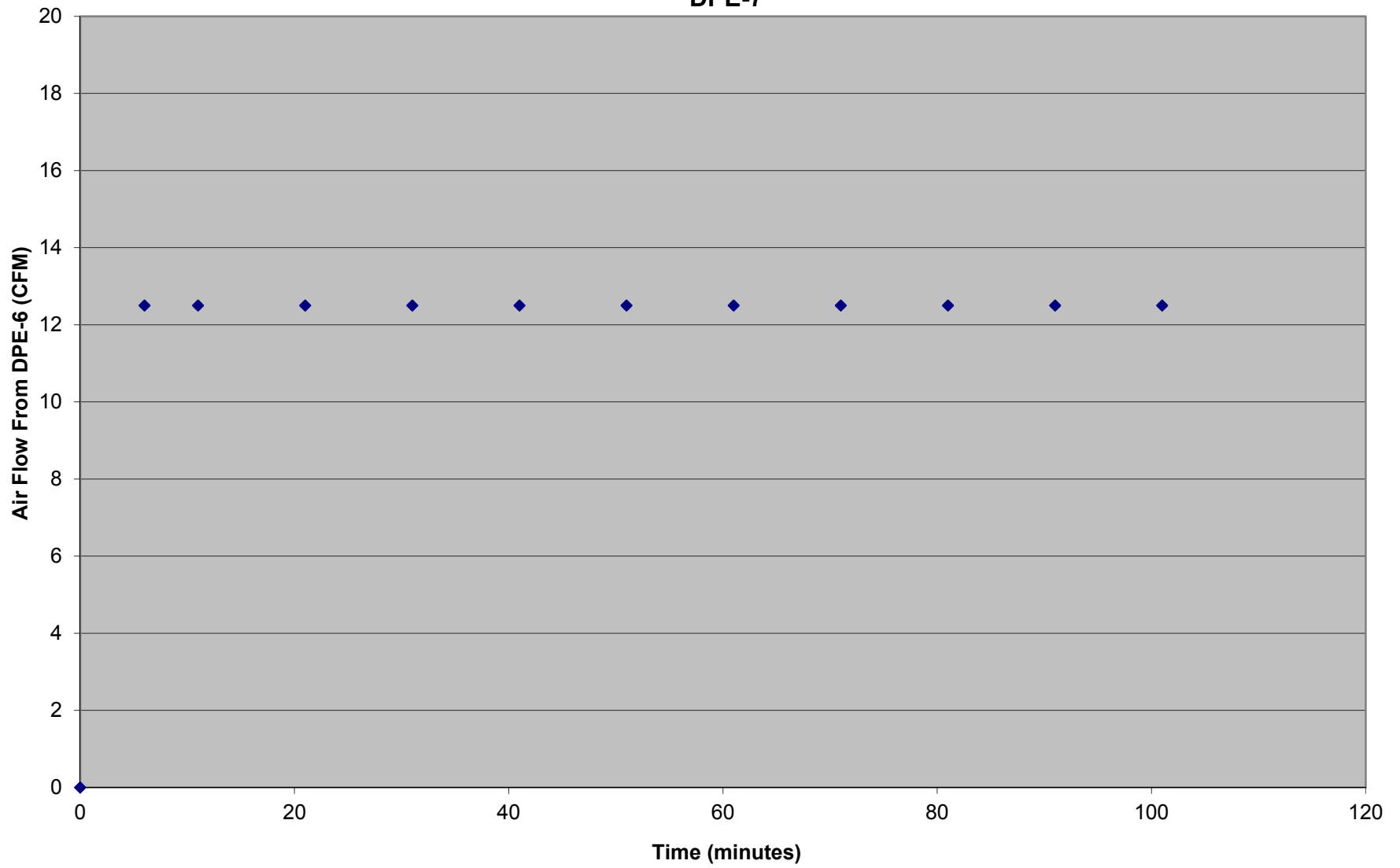
**Water Production Rate
DPE-3**



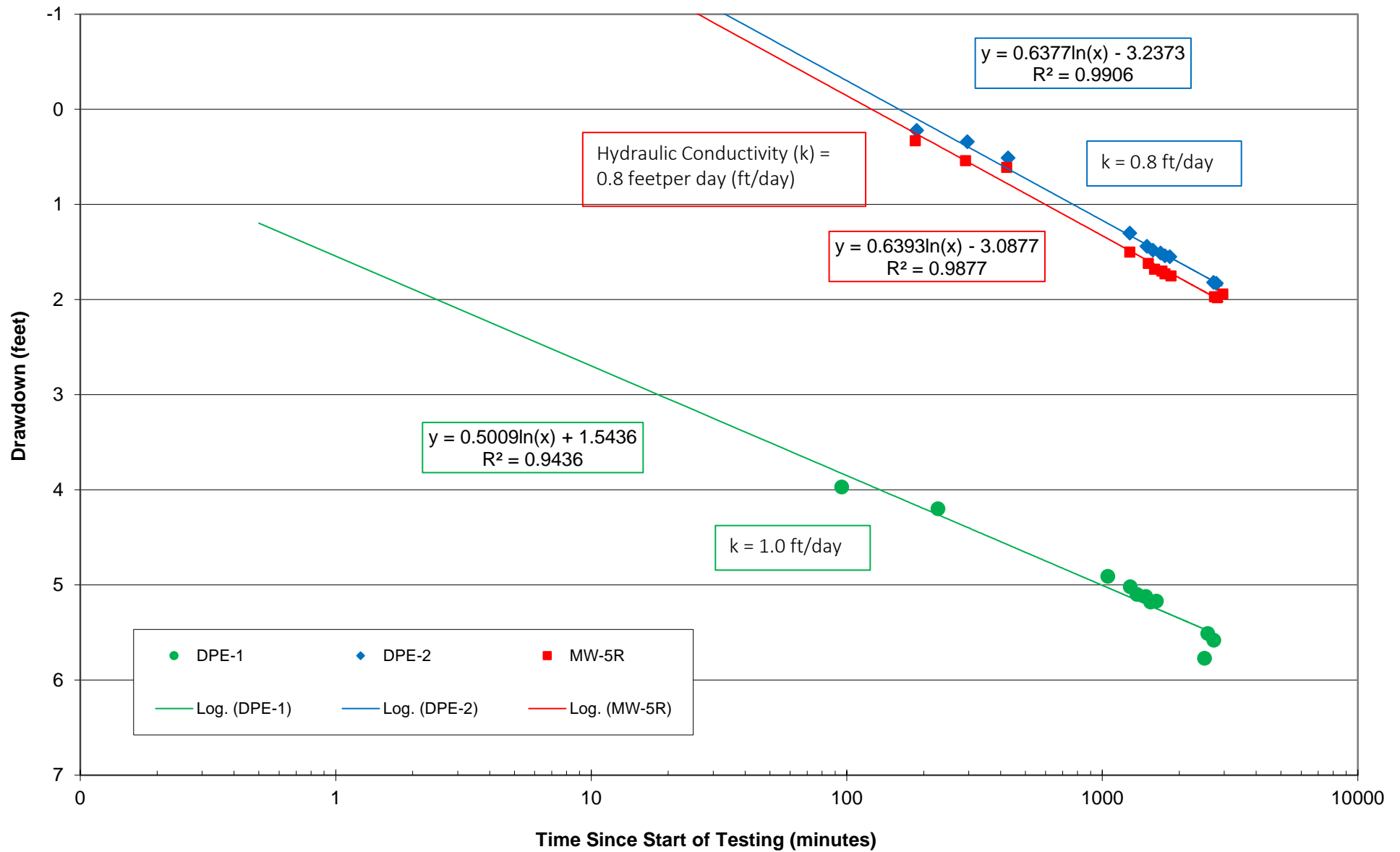
**Air Flow Vs Time
DPE-6**



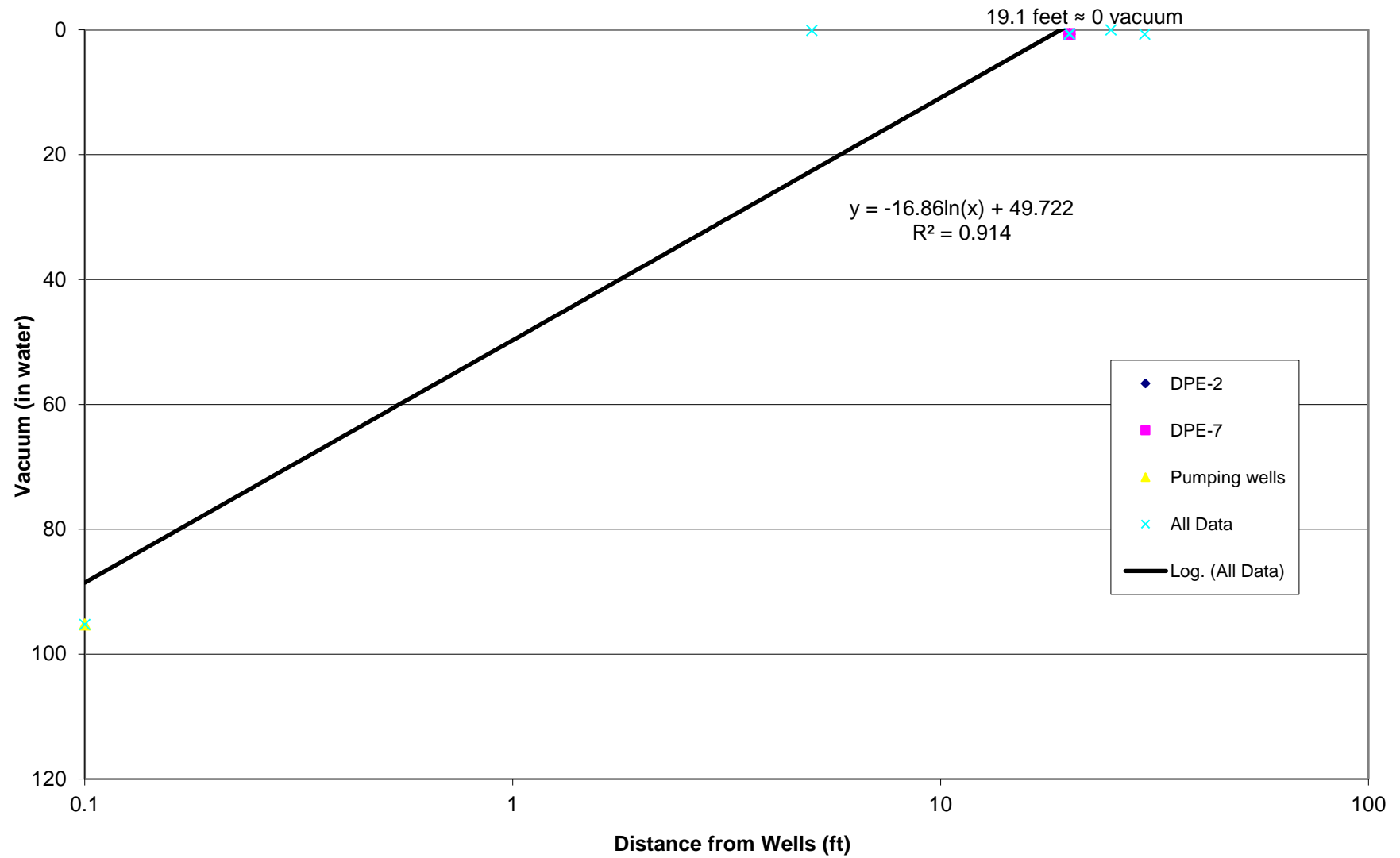
**Air Flow Vs Time
DPE-7**



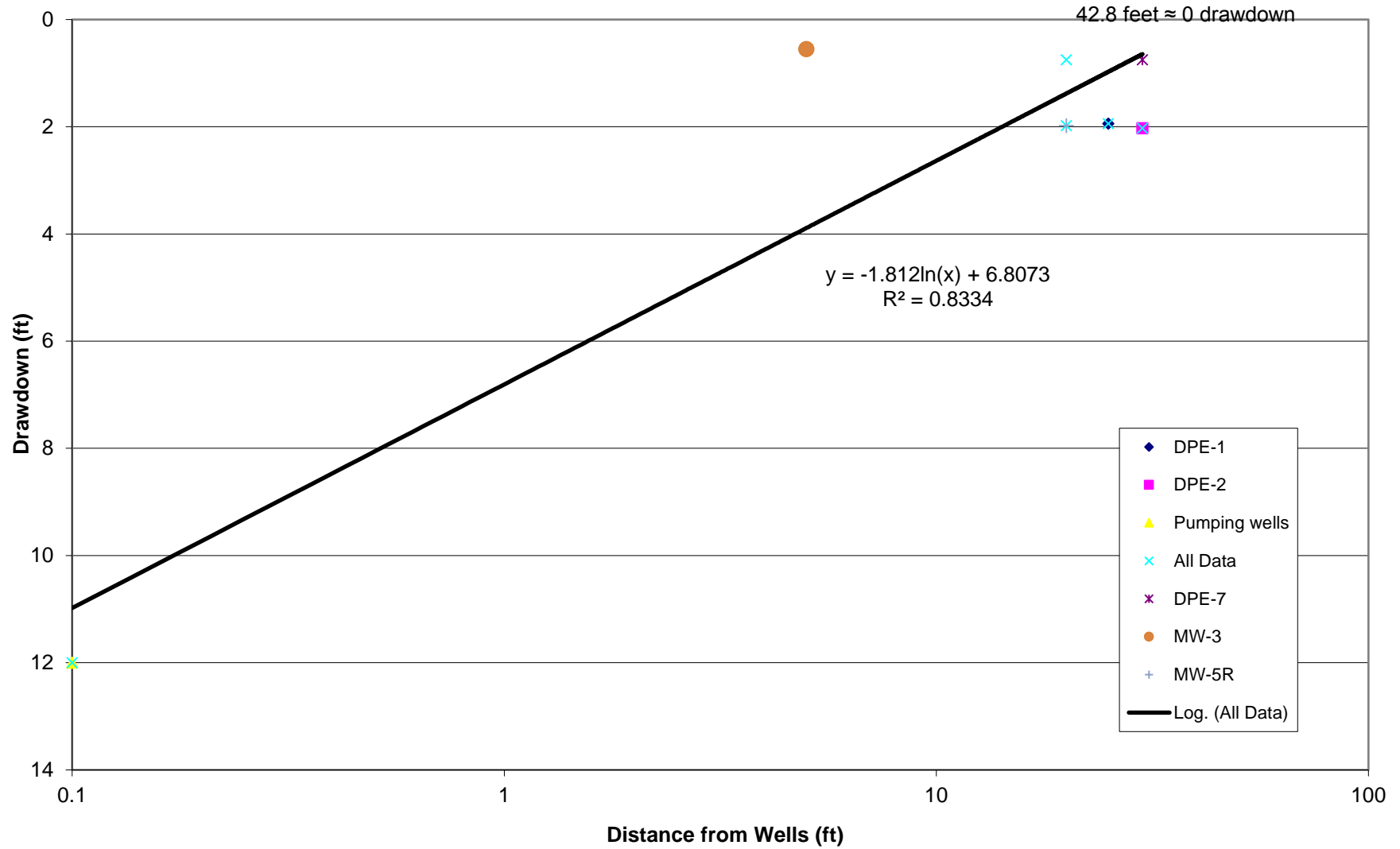
Drawdown Graph for DPE-1, DPE-2, and MW-5R Testing DPE-3, DPE-4, and MW-4



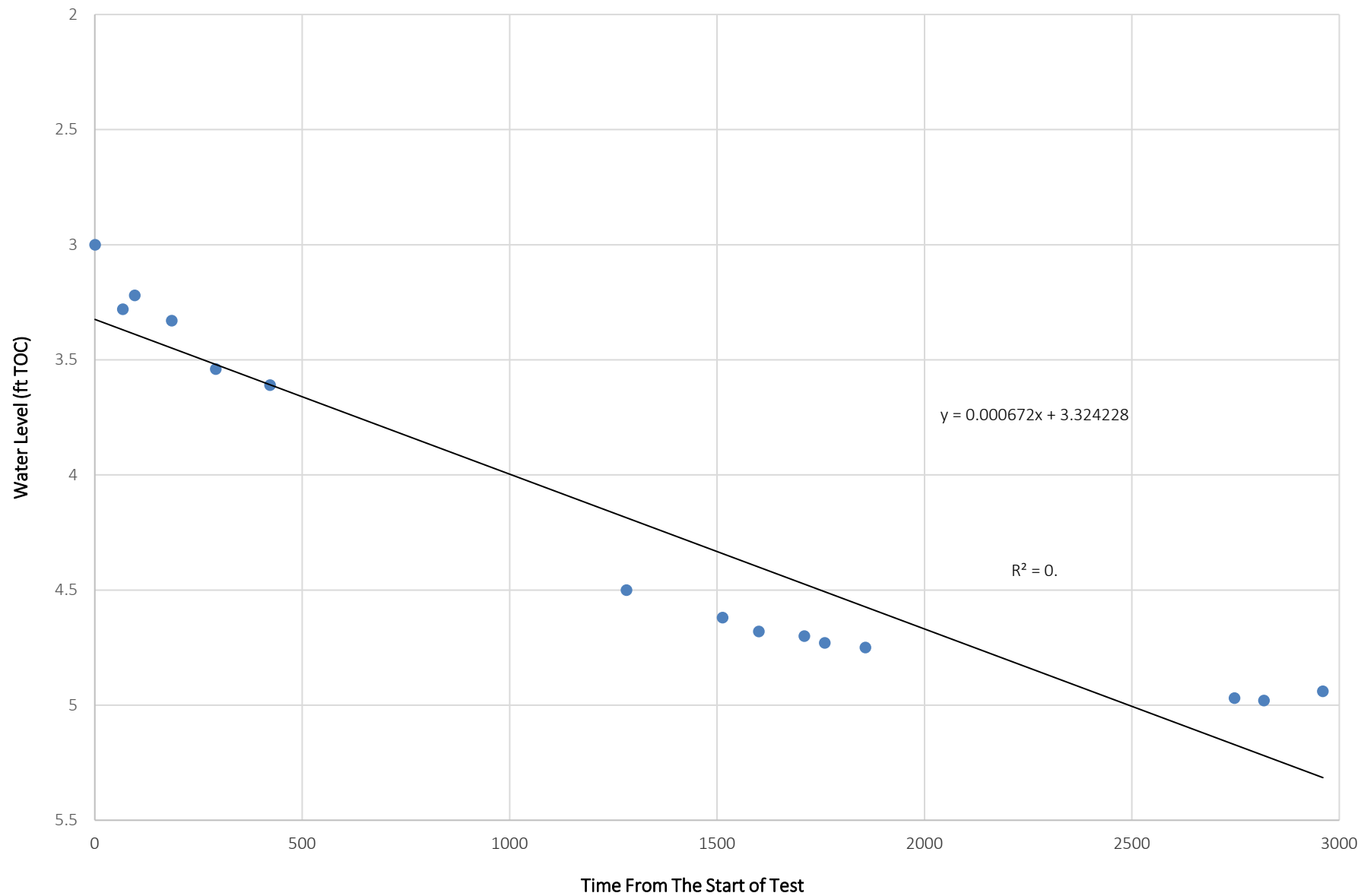
Air Distance Vacuum Graph DPE-3, DPE-4, and MW-4



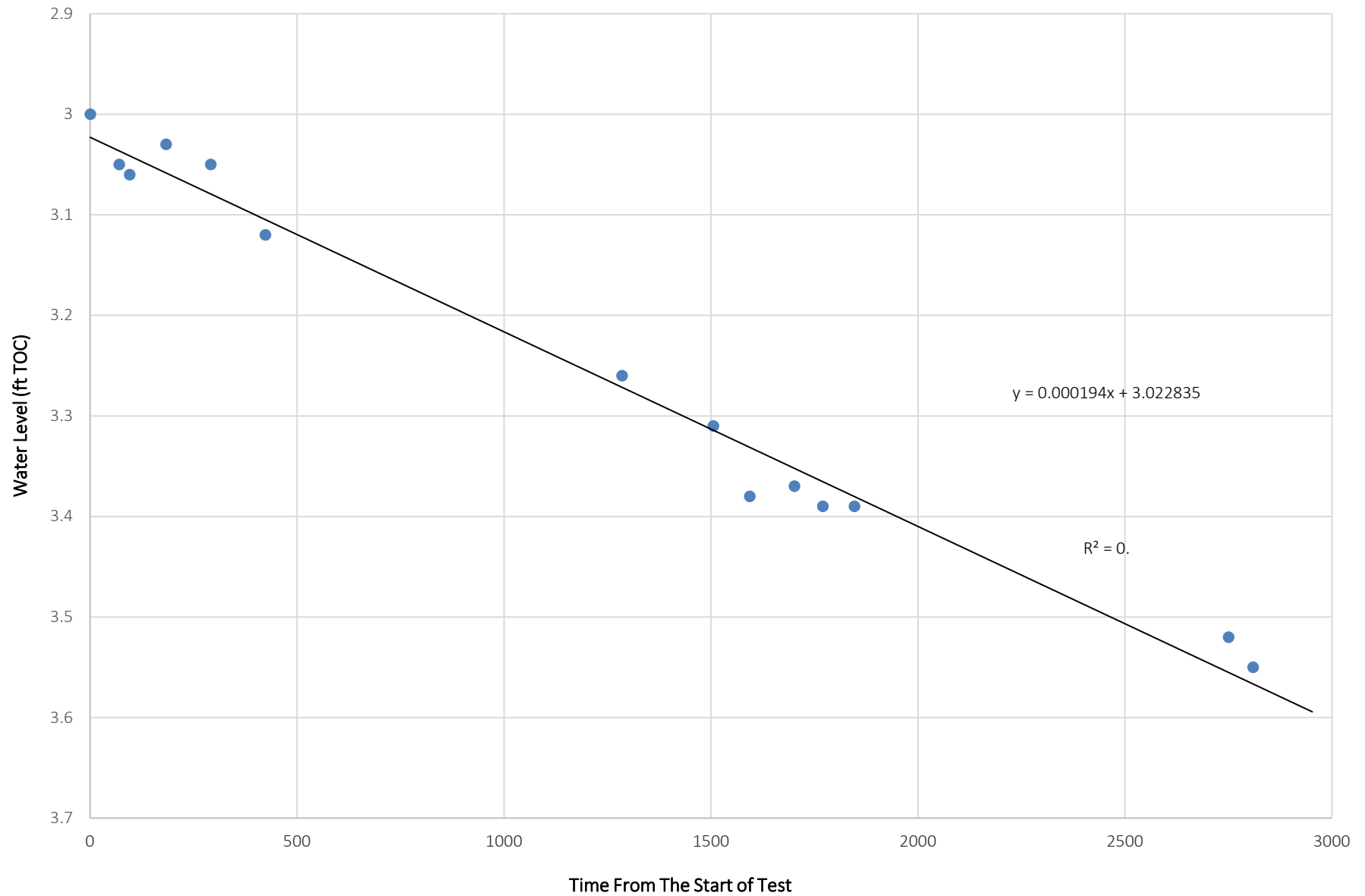
Groundwater Distance Drawdown Graph DPE-3, DPE-4, and MW-4



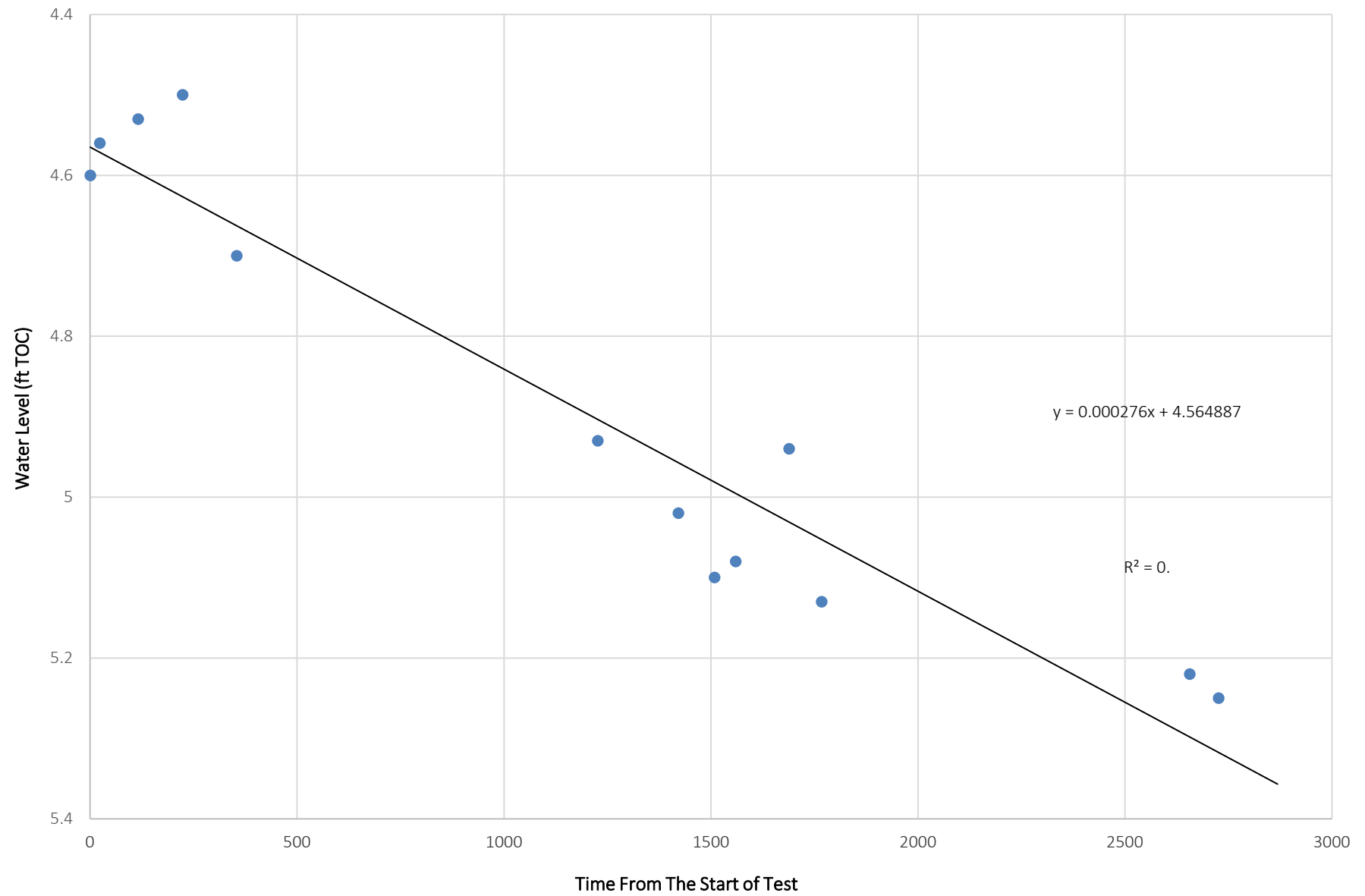
MW-5R Drawdown Testing DPE-3, DPE-4, & MW-4



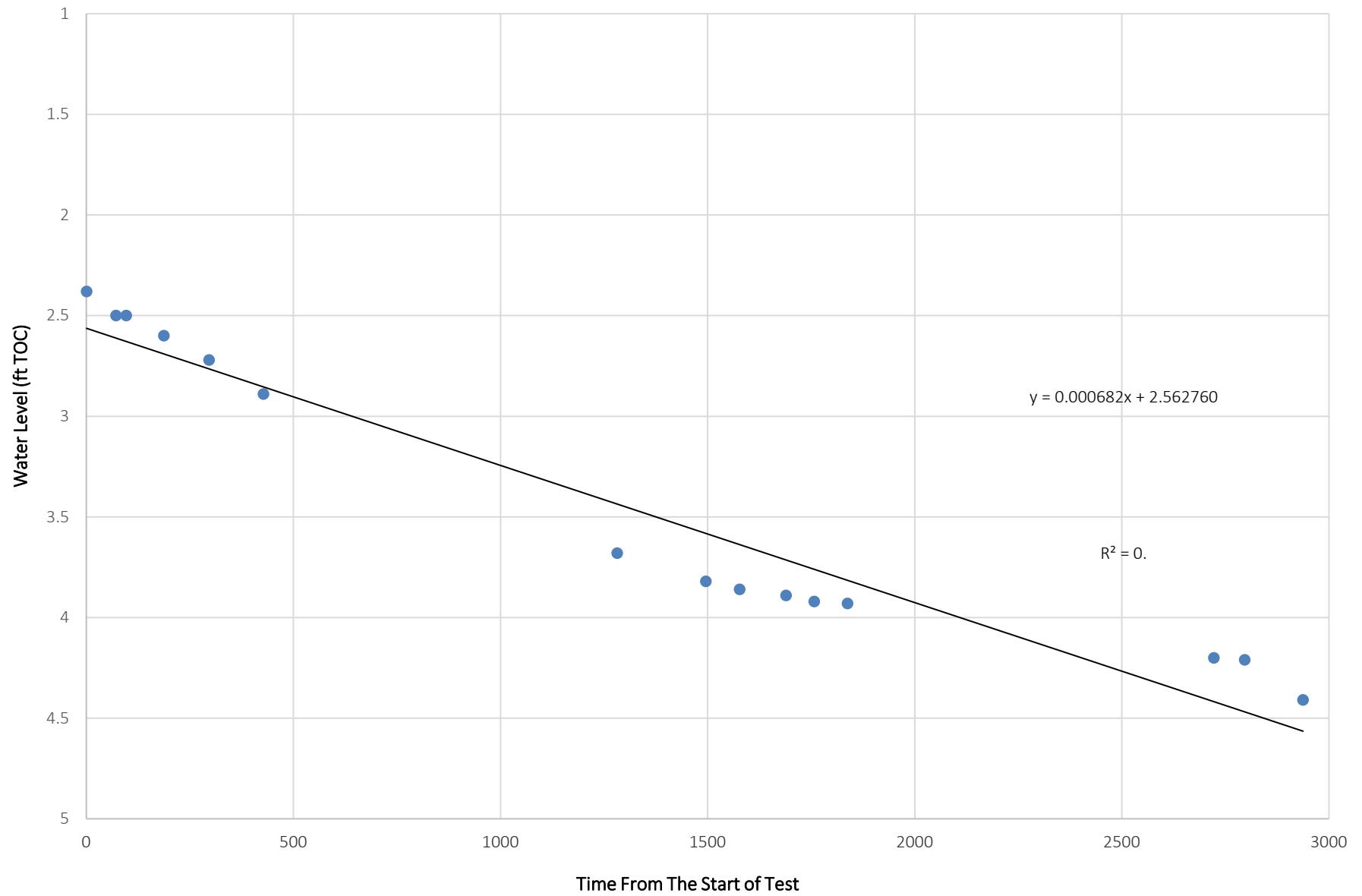
MW-3 Drawdown Testing DPE-3, DPE-4, & MW-4



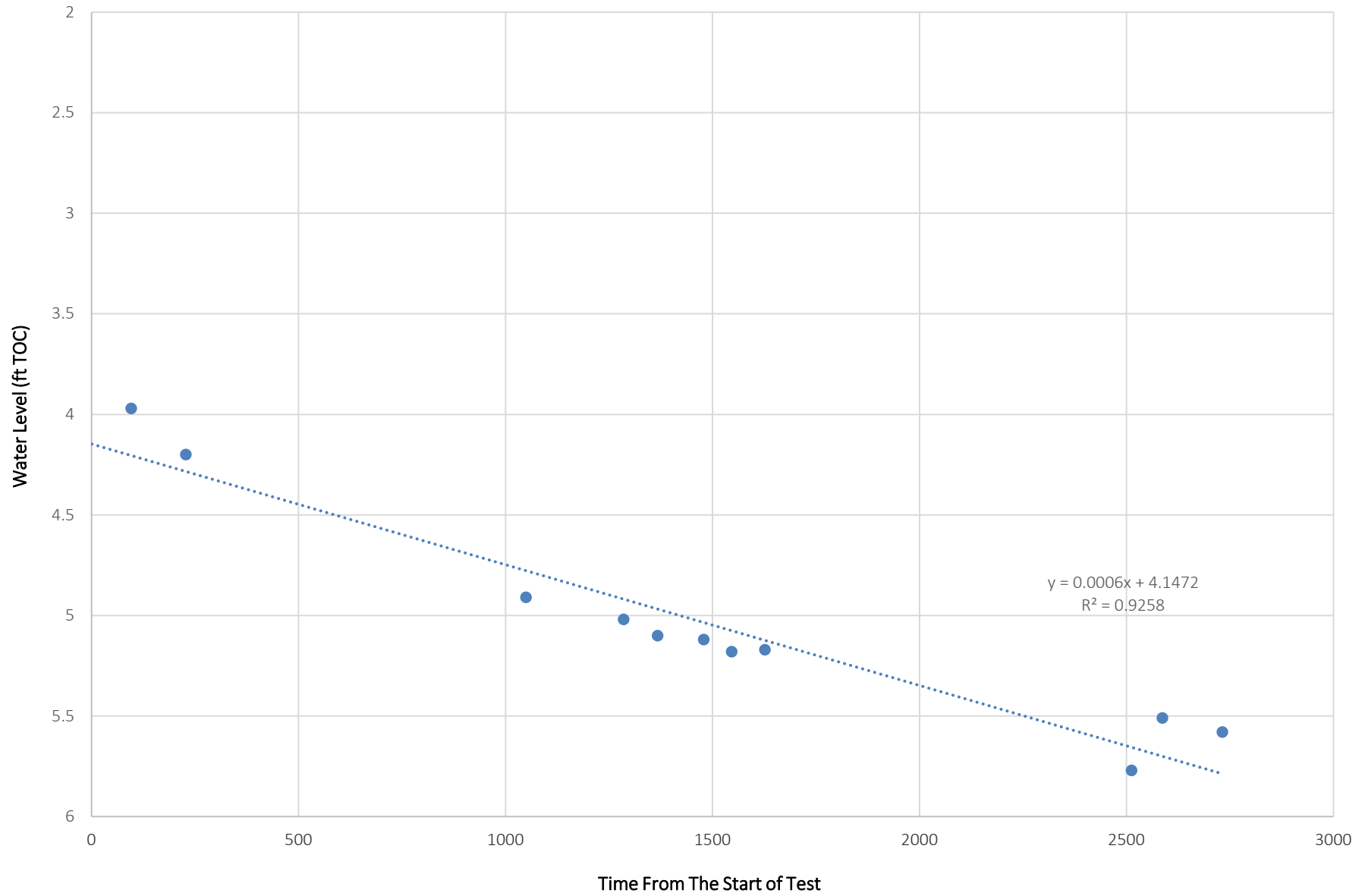
DPE-7 Drawdown Testing DPE-3, DPE-4, & MW-4



DPE-2 Drawdown Testing DPE-3, DPE-4, & MW-4



DPE-1 Drawdown Testing DPE-3, DPE-4, & MW-4



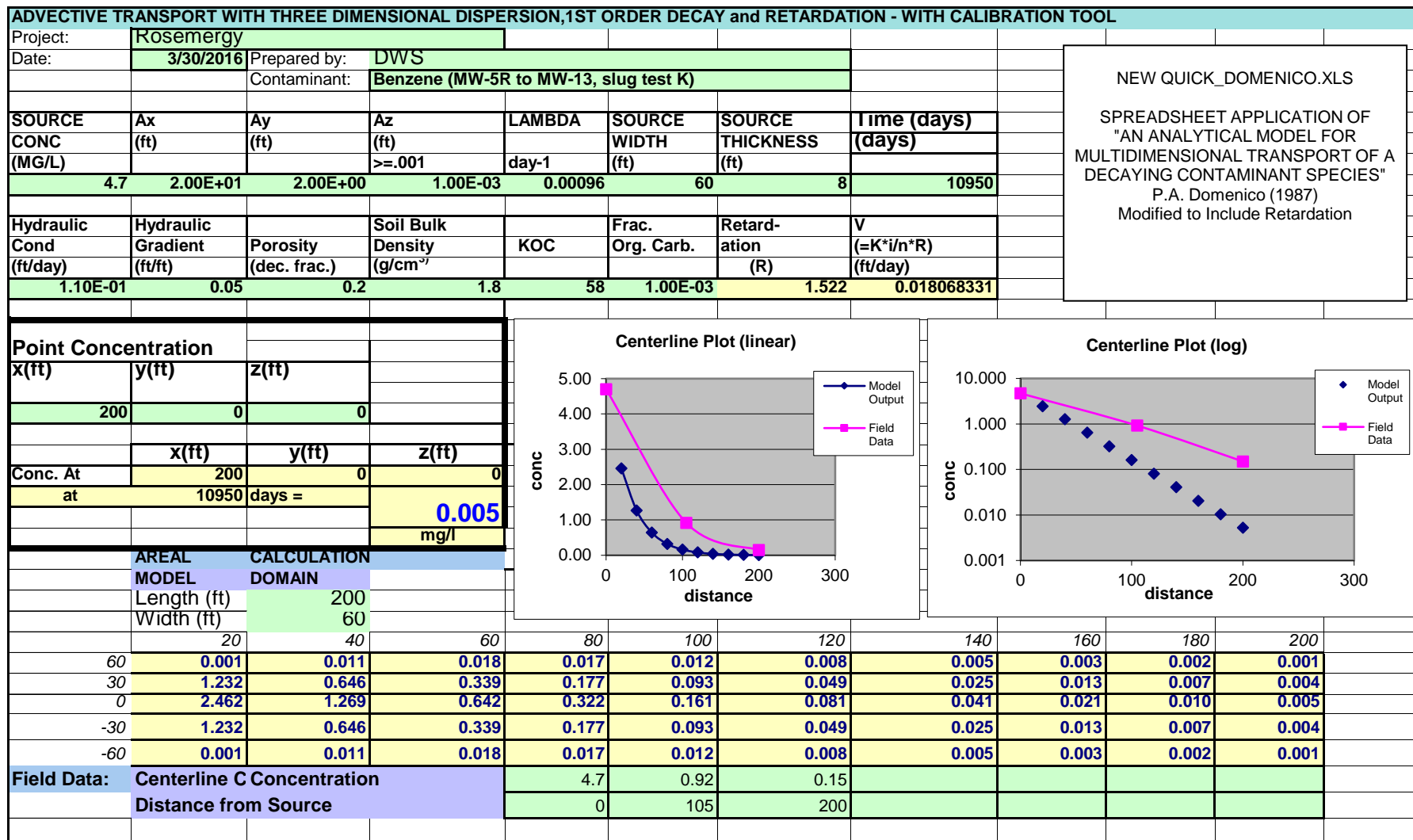


Figure E2