# **REMEDIAL ACTION PROGRESS REPORT**





PADEP Facility ID #17-14821 PAUSTIF Claim #2015-0004(I)

Kwik Fill M-90 1322 South 2<sup>nd</sup> Street Clearfield, PA 16830

# **Prepared** for:

United Refining Company of Pennsylvania 15 Bradley Street P.O. Box 688 Warren, PA 16365





Jed Hill Project Manager

George R. Hunzeker, P.G. Vice President/Chief Technical Officer



"By affixing my seal to this document, I am certifying that the information is true and correct to the best of my knowledge. I further certify I am licensed to practice in the Commonwealth of Pennsylvania and that it is within my professional expertise to verify the correctness of the information."

-George R. Hunzeker, P.G., signed and sealed this day, October 21, 2016



2022 Axemann Road, Suite 201, Bellefonte, PA 16823 P: 814.355.2241 F: 814.355.2410 www.letterleassociates.com

October 21, 2016

Mr. Scott Ferguson, P.G. Pennsylvania Department of Environmental Protection Environmental Cleanup Program 208 West Third Street, Suite 101 Williamsport, PA 17701-6448

Re: 3rd Quarter 2016 Remedial Action Progress Report United Refining Company of Pennsylvania Kwik Fill M-90 1322 South 2<sup>nd</sup> Street Clearfield, PA 16830 PADEP Facility ID #17-14821/PAUSTIF Claim #2015-0004(I)

Dear Mr. Ferguson:

Letterle & Associates, Inc. is pleased to submit this Remedial Action Progress Report (RAPR) for the above-referenced facility. This RAPR presents the groundwater monitoring data from the third quarter of 2016 and also includes a description of remedial activities completed from July 1, 2016 through September 30, 2016 (third quarter of 2016).

If you have any questions or comments regarding this report, please feel free to contact me at (814) 355-2241 or <u>jhill@letterleassociates.com</u>.

Sincerely.

ed Hill Project Manager

Enclosure

cc: Mr. Scott C. Wonsettler, P.G., United Refining Company of Pennsylvania (with CD) Mr. Gerald Hawk, ICF International (via email) Mr. Mitch Harvey, RES Coal, LLC L:\Operations\Projects\Project Files\Bellefonte\United Refining\M-90 Clearfield #277\Reports\2016\Clearfield -3rd Qtr 2016 RAPR.doc

# **TABLE OF CONTENTS**

SECTION	PAG
GENERAL INFORMATION	1
SITE HISTORY/PROJECT SUMMARY	1
REMEDIAL ACTION PLAN IMPLEMENTATION	3
DPE System Remedial Strategy	3
QUARTERLY SITE ACTIVITIES COMPLETED - 3RD QUARTER 2016	4
Remediation System Operating Summary	4
System Sampling Dates	4
Groundwater Gauging/Sampling	5
Groundwater Gauging	5
Gauging Methodology	
Gauging Results	5
Groundwater Sampling	6
Sampling Methodology	6
Sampling Results	
PLANNED ACTIVITY	7

# TABLES

Table 1 – Remedial System Groundwater Analytical Data
Table 2 – Remedial System Vapor Analytical Data
Table 3 – Historical Groundwater Gauging and Analytical Data
Table 4 – Groundwater Field Screening Parameter Data

#### FIGURES

- Figure 1 Site Location Map
- Figure 2 Site Layout Map
- Figure 3 System Layout/ Trenching Diagram
- Figure 4 Groundwater Potentiometric Surface Contour Map
- Figure 5 Benzene Isoconcentration Contour Map
- Figure 6 1,2,4-TMB Isoconcentration Contour Map

# **APPENDICES**

- Appendix A System Groundwater/Vapor Analytical Laboratory Reports
- Appendix B Quarterly Groundwater Analytical Laboratory Reports

# **GENERAL INFORMATION**

Client Contact: Letterle Project Manager: Regulatory Contact: PADEP Facility ID #: PAUSTIF Claim #: Number of Wells:	<ul> <li>Scott Wonsettler, P.G.</li> <li>Jed Hill</li> <li>Scott Ferguson, P.G.</li> <li>17-14821</li> <li>2015-0004(I)</li> <li>12 monitoring wells (on-site wells MW-2A, MW-32, and MW-33 and off-site monitoring wells MW-3, MW-4, MW-5, MW-12, MW-14, MW-15, MW-21, MW-29, and MW-30).</li> <li>6 former remediation system extraction wells/monitoring wells (MW-1, MW-1A, MW-2, MW-34, MW-35, and MW-36).</li> <li>2 current remediation system extraction wells (MW-28 and MW-31).</li> </ul>
Wells Containing LNAPL:	0

Letterle & Associates, Inc. (Letterle) of Bellefonte, Pennsylvania (PA) has been contracted by United Refining Company of Pennsylvania (United), as the environmental consultant for the Kwik Fill M-90 facility located at 1322 South 2<sup>nd</sup> Street in Lawrence Township, Clearfield County, Clearfield, PA. The investigated properties include the Kwik Fill M-90 property owned by United and the Cleveland Brothers/Beckwith Machinery Company property owned by KF Land Holdings, LLC. The two investigated properties will herein be referred to as "the site".

The site location is depicted on the United States Geological Survey (USGS) 7.5 Minute Topographical Quadrangles of Clearfield and Glen Richey, PA as presented in **Figure 1**. The latitude of the site is reported to be  $41^{\circ}$  00' 18.02" N and the longitude is reported to be  $78^{\circ}$  27' 19.69" W. The site reportedly exists at an approximate elevation of 1,116 feet above mean sea level (ft-amsl). A more detailed site layout map, which fully depicts the site area, is presented as **Figure 2**.

This Remedial Action Progress Report (RAPR) includes a description of the on-going remedial action activities and presents the groundwater monitoring data obtained at the site during the third quarter of 2016.

# SITE HISTORY/PROJECT SUMMARY

The site is currently an active retail fueling (gasoline and diesel) station, which has three steel underground storage tanks (USTs). Two 10,000-gallon USTs were installed in 1969 and an 8,000-gallon UST was installed in 1974. One 10,000-gallon UST and the 8,000-gallon UST contain unleaded gasoline while the remaining 10,000-gallon UST (in the middle) contains diesel fuel.

On June 15, 1995, the 10,000-gallon unleaded gasoline UST failed a tightness test. The PA Department of Environmental Protection (PADEP) was notified of the failure and subsequently, Mountain Research, Inc. (MRI) was retained by United in May 1996 to perform site characterization

activities. The results of the site characterization indicated several soil/groundwater samples contained unleaded gasoline constituents at concentrations above their respective Medium Specific Concentration (MSC) values.

MRI prepared a Remedial Action Plan (RAP) in July 1999 proposing an Oxygen Injection System. The PADEP approved the RAP in January 2000. System installation was initiated in February 2000 and the system commenced operation on April 12, 2000. The system was operational from April 12, 2000 until the first quarter of 2005.

From early 2005 through mid-2006, additional site investigations were initiated at the site to reevaluate the remedial approach. In October 2006, a Supplemental Site Characterization Report (SCR) and RAP Addendum was submitted to the PADEP. The Supplemental SCR/RAP Addendum identified two separate source areas, one on-site and one off-site at the Cleveland Brothers/Beckwith Machinery Company property. The on-site source area (Source Area #1) was found to have impacted groundwater beneath the site and down-gradient on the former Cleveland Brothers property. Impacted groundwater from an off-site release not associated with the Kwik Fill M-90 facility was also discovered (Source Area #2). The Supplemental SCR/RAP Addendum strategy included remediating groundwater via an air sparge/soil vapor extraction (AS/SVE) system. An additional RAP Addendum was submitted in December 2006. The PADEP approved the Supplemental SCR/RAP Addendum and additional RAP Addendum in January 2007, with modifications. An AS/SVE system was installed at the site and operated from November 2007 through the fourth quarter of 2008.

A second release of unleaded gasoline occurred at the site, and was reported in February 2008. Additional site characterization activities were initiated and an Additional SCR and RAP Addendum was submitted in June 2011. The June 2011 Additional SCR/RAP Addendum included the selection of a dual phase extraction (DPE)/SVE system to address on-site soil and groundwater and enhanced in-situ bioremediation (EB) to address off-site groundwater. The June RAP Addendum was approved by the PADEP in July 2011.

The PA Underground Storage Tank Indemnification Fund (PAUSTIF) and their administrator, ICF International (ICFI), put the site remedial work out for competitive bid. The proposed scope of work was based upon the July 2011 approved RAP. Letterle was awarded the bid in March of 2012 and began implementation of the approved RAP.

A remedial system trailer was constructed and mobilized to the site during the third quarter of 2012 and began operation on October 30, 2012. In compliance with the PAUSTIF remediation agreement, the remediation system was to be operated for a total period of two years. Additionally, as specified in the remediation agreement, applicable PADEP Used-Aquifer (total dissolved solids (TDS)  $\leq$ 2,500 milligrams per liter (mg/L)) Residential Statewide Health Standard (UARSHS) MSCs in groundwater had to be attained within seven quarters of system operation. This criterion was met and the remediation system was shut down on October 10, 2014 and the groundwater attainment monitoring program was initiated in the fourth quarter of 2014. Additionally, the initial soil vapor attainment sampling event and the soil attainment sampling event were completed in the fourth quarter of 2014. During the week of December 15, 2014, station personnel reported actuation of the diesel fuel line leak detector. All product piping was tightness tested on December 18, 2014 and diesel fuel piping failed the tightness test. The diesel UST system was removed from service and emptied of product. On December 19, 2014, existing monitoring wells in the vicinity of the UST/dispenser system area were gauged to check for separate-phase liquid (SPL), with no SPL or unusual odors detected. The PADEP was notified on December 18, 2014 and a Notification of Reportable Release (NORR) was filed on December 22, 2014. Due to the failed tightness test, the PADEP issued a letter to United dated January 2, 2015 for a violation of Section 1310 of the PA Storage Tank and Spill Prevention Act.

Quarterly groundwater attainment sampling as part of the previous release investigation was performed on March 31, 2015 (first quarter of 2015), which was to represent the second of eight required groundwater attainment sampling events at the site as part of the groundwater attainment monitoring program. However, the first quarter of 2015 groundwater sampling results revealed exceedances of the applicable PADEP UARSHS MSCs for benzene, toluene, and naphthalene in monitoring wells MW-28 and MW-31, which are immediately adjacent to the gasoline and diesel dispensers. The appearance of constituent concentrations above the applicable PADEP UARSHS MSCs in wells MW-28 and MW-31 is likely a result of the December 18, 2014 diesel fuel piping failed tightness test (subsurface release of diesel product in the vicinity of the dispensers) and hence terminated the groundwater attainment sampling program.

As a result of the increased benzene, toluene, and naphthalene concentrations observed in wells MW-28 and MW-31, Letterle submitted a request to the PADEP dated May 4, 2015 to restart the existing remediation system (was originally installed at the site in the third quarter of 2012 as part of the previous release investigation) as an interim remedial action while the site characterization is being completed. The PADEP subsequently approved this request in correspondence dated May 5, 2015. The remediation system was restarted on May 6, 2015.

Letterle completed site characterization activities in response to the December 2014 diesel release, which was outlined in a SCR dated July 15, 2015. An SCR Addendum was submitted to the PADEP on October 26, 2015, and a RAP was submitted on December 23, 2015. The SCR and RAP were subsequently approved by PADEP correspondence dated January 8, 2016.

# **REMEDIAL ACTION PLAN IMPLEMENTATION**

Based on the results of the site characterization activities and the selection of the remedial standard, Letterle proposed to the PADEP a RAP (i.e., continued operation of the existing DPE remediation system in combination with soil excavation) designed to mitigate identified impacts to site soils and groundwater, and to demonstrate attainment of the applicable PADEP UARSHS MSCs for soil and groundwater at the site. The remediation system was restarted on May 6, 2015. The soil excavation has not been scheduled yet.

# DPE System Remedial Strategy

As per the PADEP-approved SCR/RAP (January 2016), the existing DPE remediation system at the site was re-activated. DPE is a remedial technology that utilizes a combination of pneumatic groundwater pumps and a high vacuum pump to remove various combinations of impacted

groundwater, SPL, and hydrocarbon vapor from the subsurface formation and also limit the migration of the dissolved-phase plume. DPE utilizes a strategic recovery well system to remove contaminants from above and below the water table. DPE lowers the water table around the recovery well (groundwater extraction), exposing more of the formation. Contaminants in the newly exposed vadose zone are then accessible to vapor extraction.

The DPE system components housed within the onsite trailer include:

- Two claw pumps;
- One air compressor;
- One air/water separator (AWS) tank;
- One equalization tank;
- Two transfer pumps and level controls;
- Six pneumatic groundwater pumps;
- Four 400-pound liquid-phase granular activated carbon (GAC) vessels (high pressure units);
- Two 600-pound vapor-phase GAC vessels; and,
- Control panel for the claw pumps, air compressor, and the transfer pumps (including all system interlocks).

The DPE system is designed to extract groundwater and soil vapor from a strategic combination of recovery wells. Only recovery wells MW-28 and MW-31 are currently utilized as recovery points with the remediation system (see **Figure 3**).

The recovered groundwater is treated and discharged to the sanitary sewer under an issued permit from the Clearfield Municipal Authority (CMA). Under the terms of the permit, analytical reports and totalizer readings are reported in Discharge Monitoring Reports (DMR) on a monthly basis to the CMA. Petroleum impacted soil and groundwater remediation systems have been listed as exempt from the Plan Approval/Operating permit requirements by PADEP, Division of Air Quality. The remediation system is operated under the exemption requirements.

# **QUARTERLY SITE ACTIVITIES COMPLETED – 3RD QUARTER 2016**

# **Remediation System Operating Summary**

Start Date (DPE System): 3rd Quarter 2016 DPE System Uptime: 3rd Quarter 2016 Total Gallons Treated: Total Gallons Treated To Date:	May 6, 2015 71% 168,391 gallons 852,058 gallons
System Sampling Dates	
Groundwater:	July 13, 2016 July 27, 2016

August 10, 2016 August 24, 2016 September 8, 2016 September 27, 2016

Vapor:

July 27, 2016

During the third quarter of 2016, the system's operational runtime was 71% because of a series of power outages and high level tank alarms.

The remedial system groundwater and vapor analytical data are summarized on **Table 1** and **Table 2**, respectively. The remedial system groundwater and vapor analytical laboratory reports are included in **Appendix A**. A System Layout/Trenching Diagram is included as **Figure 3**.

# **Groundwater Gauging/Sampling**

The groundwater monitoring well network is gauged and sampled on a quarterly basis to analyze the effectiveness of the remediation system and to monitor groundwater impacts/movement at the site. Approximately one week prior to groundwater gauging/sampling, the remediation system was deactivated to allow for static groundwater conditions.

### Groundwater Gauging

Letterle completed a quarterly groundwater gauging event on August 17, 2016. A total of 22 wells were gauged:

• 22 wells in the shallow overburden groundwater monitoring well network: MW-1, MW-1A, MW-2, MW-2A, MW-3, MW-4, MW-5, MW-7, MW-10, MW-12, MW-14, MW-15, MW-21, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, and MW-36.

#### Gauging Methodology

Depth-to-fluid and/or groundwater was measured in each well to monitor measured thickness of SPL (if present), determine groundwater elevations, and interpret the predominant direction of groundwater movement. Depth-to-fluid and/or groundwater measurements were recorded using an electronic oil-water level indicator capable of measuring to within 0.01 feet of accuracy. The oil-water level indicator was decontaminated between each well to prevent cross-contamination.

#### Gauging Results

Groundwater elevation data collected during the third quarter of 2016 groundwater gauging event indicates the following:

- Groundwater elevations in shallow overburden groundwater ranged from 1,101.64 feet in MW-7 to 1,112.53 feet in MW-2A;
- The predominant direction of groundwater movement in the shallow overburden aquifer is interpreted to be to the north-northwest (towards the West Branch Susquehanna River); and,
- Using the August 17, 2016 groundwater elevation data, a groundwater hydraulic gradient of 0.029 feet per foot (ft/ft) between groundwater monitoring wells MW-2A and MW-7 was calculated.

**Table 3** summarizes the historical groundwater gauging data and also presents the resultant groundwater gauging results from the third quarter of 2016 groundwater gauging event. A groundwater potentiometric surface contour map for the August 17, 2016 groundwater gauging event is presented as **Figure 4**.

# Groundwater Sampling

Letterle completed a quarterly groundwater sampling event on August 17-18, 2016. A total of 20 wells were sampled:

• 20 wells in the shallow overburden groundwater monitoring well network: MW-1, MW-1A, MW-2, MW-2A, MW-3, MW-4, MW-5, MW-12, MW-14, MW-15, MW-21, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, and MW-36.

# Sampling Methodology

Subsequent to gauging the fluid and/or groundwater level in each well, low-flow sampling was initiated. For site wells, a combination of polyethylene and silicon tubing were utilized in conjunction with a peristaltic pump. The peristaltic pump was then utilized to purge each well at a low flow rate of <0.5 liters (500 milliliters) per minute. The pump intake was placed approximately three feet below the measured water level. In general, each well was purged at a rate of 100-400 milliliters per minute to avoid creating drawdown. If a well was dewatered, a bailer was utilized to collect the sample after the well recovered.

The purged groundwater was then passed through a flow-through cell that measures dissolved oxygen (DO), pH, TDS, temperature, specific conductivity, and oxidation-reduction potential (ORP). Measurements of these parameters were recorded every 3 minutes. These measurements were recorded until three consecutive readings stabilized to within 10% of one another. Purging was considered to be complete upon parameter stabilization for three consecutive readings. Once stabilization was documented, the flow-through cell was disconnected and the sample was immediately collected from the discharge line.

The sampling equipment was decontaminated between each sampled well to prevent crosscontamination. The purged groundwater was filtered through a mobile GAC vessel and then discharged to the ground surface. The samples were sealed in pre-preserved laboratory supplied glassware, labeled, custody sealed, placed in an ice-filled cooler, and returned to Letterle's office. The samples were stored in a refrigerator (at 4 °C) until they were collected by the laboratory. The samples were submitted to Fairway Laboratories, Inc. of Altoona, PA for analysis of the post-March 15, 2008 PADEP Land Recycling Program Technical Guidance Manual, Table IV-9 - Short List of Petroleum Products, specifically diesel constituents (post-March 2008 PADEP diesel short list constituents) via United States Environmental Protection Agency (USEPA) Method 8260B and were accompanied by Chain-of-Custody documentation.

# Sampling Results

The groundwater analytical results from the groundwater sampling event conducted on August 17-18, 2016 indicated the following exceedances of the applicable PADEP UARSHS MSCs:

- Benzene in wells MW-28 and MW-31; and,
- 1,2,4-Trimethylbenzene (TMB) in wells MW-28 and MW-31.

Methyl tert-butyl ether (MTBE) in MW-31 was not detected above the laboratory reporting limit; however, the laboratory reporting limit for MTBE in MW-31 was greater than the PADEP UARSHS MSC.

**Table 3** summarizes the historical groundwater analytical data and also presents the resultant groundwater analytical results from the third quarter of 2016 groundwater sampling event. The groundwater field screening parameter results are summarized on **Table 4**. Quarterly groundwater analytical laboratory reports are included in **Appendix B**.

Isoconcentration contour maps for benzene and 1,2,4-TMB for the August 17-18, 2016 (third quarter of 2016) groundwater sampling event are presented as **Figures 5 and 6**, respectively.

# PLANNED ACTIVITY

The following activities are currently planned for the 4<sup>th</sup> Quarter of 2016:

- Remedial system operation and maintenance and permit sampling;
- Quarterly groundwater gauging and sampling; and,
- Quarterly reporting.

TABLES

					Xylenes					
Sample		Benzene	Toluene	Ethylbenzene	(Total)	Cumene	MTBE	Naphthalene	1,2,4-TMB	1,3,5-TMB
Location	Date	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
Influent	10/04/12	<2.00	<2.00	<2.00	<4.00	<2.00	20.1	<2.00	NA	NA
	10/17/12	<2.00	<2.00	<2.00	<4.00	<2.00	15.9	<2.00	NA	NA
	11/07/12	<2.00	<2.00	<2.00	<4.00	<2.00	17.6	<2.00	NA	NA
	12/03/12	<2.00	<2.00	<2.00	<4.00	<2.00	12.5	<2.00	NA	NA
	01/23/13	<2.00	<2.00	<2.00	<4.00	<2.00	17.6	<2.00	NA	NA
	02/07/13	<2.00	<2.00	<2.00	<4.00	<2.00	19.1	<2.00	NA	NA
	03/04/13	<2.00	<2.00	<2.00	<4.00	<2.00	4.46	<2.00	NA	NA
	04/10/13	<2.00	<2.00	<2.00	<4.00	<2.00	11.1	<2.00	NA	NA
	05/14/13	<2.00	<2.00	<2.00	<4.00	<2.00	9.18	<2.00	NA	NA
	06/07/13	14.9	27.7	<2.00	7.44	<2.00	8.80	<2.00	NA	NA
	07/11/13	<2.00	<2.00	<2.00	<4.00	<2.00	<2.00	<2.00	NA	NA
	08/05/13	<1.00	<1.00	<1.00	<2.00	<1.00	8.76	<1.00	NA	NA
	09/03/13	<1.00	<1.00	<1.00	< 2.00	<1.00	4.02	<1.00	NA	NA
	10/07/13	1.40	<1.00	<1.00	2.30	<1.00	5.10	<1.00	NA	NA
	11/04/13	<1.00	<1.00	<1.00	<2.00	<1.00	5.99	<1.00	NA	NA
	12/13/13	<2.00	<2.00	<2.00	<4.00	<2.00	4.38	<2.00	NA	NA
	01/08/14	<2.00	<2.00	<2.00	<4.00	<2.00	7.32	<2.00	NA	NA
	02/06/14	< 0.24	<2.00	<2.00	<4.00	<2.00	9.00	<2.00	NA	NA
	03/03/14	<2.00	<2.00	<2.00	<4.00	<2.00	9.98	<2.00	NA	NA
	04/07/14	<2.00	<2.00	<2.00	<4.00	<2.00	10.5	<2.00	NA	NA
	05/12/14	<2.00	<2.00	<2.00	<4.00	<2.00	4.16	<2.00	NA	NA
	06/09/14	<1.00	<1.00	<1.00	<2.00	<1.00	9.56	<1.00	NA	NA
	07/07/14	<1.00	<1.00	<1.00	<2.00	<1.00	11.6	<1.00	NA	NA
	08/06/14	<1.00	<1.00	<1.00	<2.00	<1.00	9.88	<1.00	NA	NA
	09/08/14	<1.00	<1.00	<1.00	<2.00	<1.00	4.74	<1.00	NA	NA
	05/28/15	<1.00	<1.00	<1.00	<2.00	<1.00	6.33	<1.00	NA	NA
	06/08/15	<1.00	<1.00	<1.00	<2.00	<1.00	3.06	<1.00	1.10	<1.00
	07/09/15	<1.00	<1.00	<1.00	2.81	<1.00	4.12	<1.00	2.99	1.10
	08/13/15	<1.00	<1.00	1.75	5.37	<1.00	2.76	1.41	7.93	2.48
	09/09/15	<1.00	<1.00	<1.00	<2.00	<1.00	6.13	<1.00	<1.00	<1.00
	10/05/15	<1.00	<1.00	<1.00	<2.00	<1.00	4.83	<1.00	<1.00	<1.00
	11/06/15	<1.00	<1.00	<1.00	5.68	<1.00	4.36	<1.00	2.55	<1.00
	12/09/15	<1.00	<1.00	<1.00	<2.00	<1.00	6.30	<1.00	<1.00	<1.00
	01/06/16	<1.00	<1.00	<1.00	<2.00	<1.00	6.23	<1.00	<1.00	<1.00
	02/11/16	85.3	<1.00	126	824	15.6	<1.00	94.3	309	84.4
	03/09/16	< 0.70	<5.00	<5.00	<10.0	<5.00	<5.00	<5.00	<5.00	<5.00
	04/06/16	<1.00	<1.00	<1.00	<2.00	<1.00	2.64	<1.00	<1.00	<1.00
	05/12/16	<1.00	<1.00	<1.00	<2.00	<1.00	3.77	<1.00	<1.00	<1.00
	06/06/16	<1.00	<1.00	<1.00	<2.00	<1.00	3.20	<1.00	<1.00	<1.00
	07/13/16	<1.00	1.25	<1.00	<2.00	<1.00	3.29	<1.00	<1.00	<1.00
	08/10/16	<1.00	<1.00	<1.00	<2.00	<1.00	8.07	<1.00	<1.00	<1.00
	09/08/16	<1.00	<1.00	<1.00	<2.00	<1.00	5.20	<1.00	<1.00	<1.00

<i>a</i> 1		-			Xylenes	~				
Sample		Benzene	Toluene	Ethylbenzene	(Total)	Cumene	MTBE	Naphthalene	1,2,4-TMB	1,3,5-TMB
Location	Date	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
Midfluent	10/04/12	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA
	10/17/12	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA
	11/07/12	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA
	12/03/12	<1.00	<1.00	<1.00	<2.00	<1.00	1.85	<1.00	NA	NA
	01/23/13	<1.00	<1.00	<1.00	<2.00	<1.00	2.00	<1.00	ΝΛ	NA
	02/07/13	<1.00	<1.00	<1.00	<2.00	<1.00	2.07	<1.00	NA	NA
	03/04/13	<1.00	<1.00	<1.00	<2.00	<1.00	7.33	<1.00	NA	NA
	04/10/13	<1.00	<1.00	<1.00	<2.00	<1.00	3.90	<1.00	NA	NA
	05/14/13	<1.00	<1.00	<1.00	<2.00	<1.00	6.36	<1.00	NA	NA
	06/07/13	<1.00	<1.00	<1.00	<2.00	<1.00	5.34	<1.00	NA	NA
	07/11/13	<1.00	<1.00	<1.00	<2.00	<1.00	3.72	<1.00	NA	NA
	08/05/13	<1.00	<1.00	<1.00	<2.00	<1.00	5.20	<1.00	NA	NA
	09/03/13	<1.00	<1.00	<1.00 <1.00	<2.00 <2.00	<1.00 <1.00	5.40	<1.00 <1.00	NA NA	NA NA
			<1.00	<1.00	-		6.93 6.35	<1.00	NA NA	NA NA
	11/04/13 12/13/13	<1.00			<2.00 <2.00	<1.00 <1.00	4.54		NA NA	
	02/06/14	<1.00 <1.00	<1.00	<1.00 <1.00	<2.00	<1.00	<u>4.54</u> 7.09	<1.00 <1.00	NA NA	NA NA
	02/06/14	<1.00	<1.00	<1.00	<2.00	<1.00	7.69	<1.00	NA	NA NA
	03/03/14	<1.00	<1.00	<1.00	<2.00	<1.00	3.72	<1.00	NA	NA
	05/12/14	<1.00	<1.00	<1.00	<2.00	<1.00	4.40	<1.00	NA	NA NA
	06/09/14	<1.00	<1.00	<1.00	<2.00	<1.00	7.07	<1.00	NA	NA
	07/07/14	<1.00	<1.00	<1.00	<2.00	<1.00	10.3	<1.00	NA	NA
	08/06/14	<1.00	<1.00	<1.00	<2.00	<1.00	8.96	<1.00	NA	NA
	09/08/14	<1.00	<1.00	<1.00	<2.00	<1.00	5.25	<1.00	NA	NA
	05/28/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA
	06/08/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
	07/09/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
	08/13/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
	09/09/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
	10/05/15	<1.00	<1.00	<1.00	< 2.00	<1.00	<1.00	<1.00	<1.00	<1.00
	11/06/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
	12/09/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
	01/06/16	<1.00	<1.00	<1.00	< 2.00	<1.00	<1.00	<1.00	<1.00	<1.00
	02/11/16	7.14	84.3	16.1	110	1.89	<1.00	7.78	49.6	15.0
	03/09/16	<1.00	<1.00	<1.00	<2.00	<1.00	1.02	<1.00	<1.00	<1.00
	04/06/16	<1.00	<1.00	<1.00	<2.00	<1.00	1.45	<1.00	<1.00	<1.00
	05/12/16	<1.00	<1.00	<1.00	<2.00	<1.00	1.91	<1.00	<1.00	<1.00
	06/06/16	<1.00	<1.00	<1.00	<2.00	<1.00	3.05	<1.00	<1.00	<1.00
	07/13/16	<1.00	1.04	<1.00	<2.00	<1.00	3.38	<1.00	<1.00	<1.00
	08/10/16	<1.00	<1.00	<1.00	<2.00	<1.00	7.45	<1.00	<1.00	<1.00
	09/08/16	<1.00	<1.00	<1.00	<2.00	<1.00	4.28	<1.00	<1.00	<1.00

~ .		_			Xylenes						Oil &	
Sample Location	Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	(Total) (µg/l)	Cumene (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2,4-TMB (μg/l)	1,3,5-TMB (µg/l)	Grease (mg/l)	
Effluent	10/04/12	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NΛ	NA	<6.30	
Emache	10/17/12	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	ΝΛ	NA	<6.30	
	11/07/12	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	ΝΛ	NA	<6.30	
	11/21/12	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<6.30	
	12/03/12	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<6.30	
	12/31/12	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<6.30	
	01/07/13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	01/23/13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	02/07/13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<5.00	
	02/19/13	<1.00	<1.00	<1.00	< 2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	03/04/13	<1.00	<1.00	<1.00	< 2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	03/21/13	<1.00	<1.00	<1.00	< 2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	04/10/13	<1.00	<1.00	<1.00	< 2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	04/30/13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	05/14/13	<1.00	<1.00	<1.00	< 2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	05/29/13	<1.00	<1.00	<1.00	< 2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	06/07/13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	06/19/13	<1.00	<1.00	<1.00	< 2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	07/11/13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	07/23/13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	08/05/13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	08/20/13	<1.00	<1.00	<1.00	< 2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	09/03/13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	09/18/13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	10/07/13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	10/23/13	<1.00	<1.00 <1.00		<1.00	<2.00	<1.00	<1.00	<1.00	ΝΛ	NA	<6.30
	11/04/13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	ΝΛ	NA	<6.30	
	11/27/13	<1.00	<1.00	<1.00	< 2.00	<1.00	8.40	<1.00	ΝΛ	NA	< 6.30	
	12/13/13	<1.00	<1.00	<1.00	<2.00	<1.00	4.24	<1.00	NA	NA	<6.30	
	12/30/13	<1.00	<1.00	<1.00	<2.00	<1.00	7.02	<1.00	NA	NA	< 6.30	
	01/08/14	<1.00	<1.00	<1.00	< 2.00	<1.00	<1.00	<1.00	NA	NA	<6.30	
	01/20/14	<1.00	<1.00	<1.00	2.91	<1.00	<1.00	<1.00	NA	NA	NA	
	02/06/14	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<6.30	
	02/17/14	<1.00	<1.00	<1.00	<2.00	<1.00	1.37	<1.00	NA	NA	<6.30	
	03/03/14	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<6.30	
	03/24/14	<1.00	<1.00	<1.00	<2.00	<1.00	3.68	<1.00	NA	NA	<6.30	
	04/07/14	<1.00	<1.00	<1.00	<2.00	<1.00	4.22	<1.00	NA	NA	<6.30	
	04/22/14	<1.00	<1.00	<1.00	<2.00	<1.00	2.13	<1.00	NA	NA	<6.30	
	05/12/14	<1.00	<1.00	<1.00	<2.00	<1.00	1.87	<1.00	NA	NA	<6.30	
	05/27/14	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	< 6.30	
	06/09/14	<1.00	<1.00	<1.00	<2.00	<1.00	2.24	<1.00	NA	NA	<6.30	
	06/23/14	<1.00	<1.00	<1.00	<2.00	<1.00	2.71	<1.00	NA	NA	<6.30	
	07/07/14	<1.00	<1.00	<1.00	<2.00	<1.00	3.33	<1.00	NA	NA	<6.30	
	07/25/14	<1.00	<1.00	<1.00	<2.00	<1.00	2.71	<1.00	NA	NA	<6.30	
	08/06/14	<1.00	<1.00	<1.00	<2.00	<1.00	3.62	<1.00	NA	NA	<6.30	
	08/18/14	<1.00	<1.00	<1.00	<2.00	<1.00	3.14	<1.00	NA	NA	< 6.30	
	09/08/14	<1.00	<1.00	<1.00	<2.00	<1.00	2.07	<1.00	NA	NA	< 6.30	
	09/22/14	<1.00	<1.00	<1.00	<2.00	<1.00	2.56	<1.00	NA	NA	<6.25	
	05/28/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<6.25	

					Xylenes						Oil &
Sample	-	Benzene		Ethylbenzene	(Total)	Cumene	MTBE	Naphthalene		, ,	Grease
Location	Date	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)
Effluent	06/08/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<6.25
	06/25/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	ΝΛ	NA	<6.25
	07/09/15	<1.00	<1.00	<1.00	< 2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<6.25
	07/22/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<6.25
	08/13/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<6.25
	08/24/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<6.25
	09/09/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<6.25
	09/22/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<6.25
	10/05/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<6.25
	10/19/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<6.25
	11/06/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	11/16/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<5.00
	12/09/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	12/22/15	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<5.00
	01/06/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	01/19/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<5.00
	02/11/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	03/09/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	03/21/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<5.00
	04/06/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	04/18/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<5.00
	05/12/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	< 5.00
	05/25/16	<1.00	<1.00	<1.00	< 2.00	<1.00	<1.00	<1.00	NA	NA	< 5.00
	06/06/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	06/21/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<5.00
	07/13/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	07/27/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	ΝΛ	NA	<5.00
	08/10/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	08/24/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	ΝΛ	NA	<5.00
	09/08/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	09/27/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00

Notes:

µg/l - micrograms per liter

mg/l - milligrams per liter

NA - Not Analyzed.

Sample	Date	MTBE (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylenes* (ppmv)	Cumene (ppmv)	Naphthalene (ppmv)	TPH (C4 - C12) (ppmv)
Influent	10/04/12	< 0.07	1.84	0.66	0.27	1.42	< 0.07	< 0.07	NA
	06/07/13	< 0.07	0.48	1.21	0.11	0.48	< 0.07	< 0.07	NA
	07/22/15	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	NA	NA	2.57
	11/16/15	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	18.38
	03/09/16	< 0.07	0.05	0.84	0.09	0.50	< 0.07	< 0.07	9.65
	05/12/16	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	0.70
	07/27/16	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	4.02
Midfluent	10/04/12	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	<0.07	NA
	06/07/13	< 0.07	0.09	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	NA
	07/22/15	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	NA	NA	2.71
	11/16/15	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	9.49
	03/09/16	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	5.38
	05/12/16	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	0.59
	07/27/16	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	3.50
Effluent	10/04/12	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	NA
	06/07/13	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	NA
	09/03/13	< 0.07	< 0.07	0.07	< 0.07	< 0.07	< 0.07	< 0.07	NA
	10/07/13	< 0.07	0.14	0.07	< 0.07	< 0.07	< 0.07	< 0.07	NA
	02/06/14	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	NA
	05/12/14	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	NA
	08/06/14	< 0.07	0.08	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	NA
	07/22/15	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	NA	NA	2.50
	11/16/15	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	13.38
	03/09/16	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	<0.07	10.69
	05/12/16	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	0.59
	07/27/16	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	<0.07	3.19

Notes:

Pontes.
ppmv - parts per million volume.
\* - Total for m-xylene, o-xylene, p-xylene.
MTBE - methyl tert-butyl ether.
NA - Not Analyzed.

[						Compo	rund				1	
					Ethyl-	Xylenes					1	
Piezometer/Well	Date	MTBE	Benzene	Toluene	benzene	(Total)	Cumene	Naphthalene	1,3,5-TMB	1,2,4-TMB		
PADEP UARSHS MSCs		20	5	1,000	700	10,000	840	100	420	15	Depth-to- Groundwater	Groundwater Elevation
MW-1	3/17/2010	10.9	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.26	1113.94
	6/8/2010	11.2	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.57	1113.63
	8/30/2010	18.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NΛ	4.78	1111.42
	11/17/2010	13.7	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.40	1112.80
	3/1/2011	6.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	1.78	1114.42
	5/31/2011	13.5	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NΛ	3.75	1112.45
	8/24/2011	12.1	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.12	1112.08
	3/28/2012	14.8	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	2.12	1114.08
	6/25/2012				l	Monitoring v	vell converte	ed to remedial e	xtraction well.			
	12/17/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.51	1112.69
	3/31/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	2.64	1113.56
	5/4/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.45	1112.75
	5/26/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.65	1109.55
	9/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.55	1109.65
	12/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.00	1111.20
	2/9/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.94	1113.26
	5/11/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.99	1113.21
	8/17/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.30	1111.90
MW-1A	3/17/2010	7.1	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.57	1114.53
	6/8/2010	6.9	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NÁ	NA	2.86	1114.24
	8/30/2010	16.3	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	5.32	1111.78
	11/17/2010	10.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.88	1113.22
	3/1/2011	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.04	1115.06
	5/31/2011	4.2	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	4.29	1112.81
	8/24/2011	8.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.65	1112.45
	3/28/2012	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NÁ	NA	2.55	1114.55
	6/25/2012				1	Monitoring v	vell converte	ed to remedial e	xtraction well.			
	12/17/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.38	1112.72
	3/31/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.62	1113.48
	5/4/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.55	1112.55
	5/26/2015	2.16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.26	1109.84
	9/14/2015	4.17	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.31	1109.79
	12/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.79	1111.31
	2/9/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.79	1112.31
	5/10/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.69	1112.41
	8/18/2016	1.95	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.72	1110.38

Page 1 of 18

						Compo	und					
Piezometer/Well	Date	MTBE	Benzene	Toluene	Ethyl- benzene	Xyienes (Total)	Cumene	Naphthalene	1,3,5-TMB	1,2,4-TMB		
PADEP UARSHS MSCs		20	5	1,000	700	10,000	840	100	420	15	Depth-to- Groundwater	Groundwater Elevation
MW-2	3/17/2010	20.4	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.07	1113.47
	6/8/2010	20.5	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	3.36	1113.18
	8/30/2010	20.5	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NΛ	5.61	1110.93
	11/17/2010	20.1	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.36	1112.18
	3/1/2011	11.0	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	2.73	1113.81
	5/31/2011	10.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.68	1111.86
	8/24/2011	14.3	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.90	1111.64
	3/28/2012	11.5	1.1	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.85	1113.69
	6/25/2012				1	Monitoring v	vell converte	ed to remedial e	xtraction well.			
	12/17/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.79	1112.75
	3/31/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	3.10	1113.44
	5/4/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.01	1112.53
	5/26/2015	1.41	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.00	1109.54
	9/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.80	1109.74
	12/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.22	1111.32
	2/9/2016	1.19	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.75	1113.79
	5/11/2016	3.50	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.15	1112.39
	8/17/2016	7.31	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.24	1110.30

Page 2 of 18

		Compound										
					Ethyl-	Xylenes						
Piezometer/Well	Date	MTBE	Benzene	Toluene	benzene	(Total)	Cumene	Naphthalene	1,3,5-TMB	1,2,4-TMB		
PADEP UARSHS		20	5	1.000	700	10.000	840	100	420	15	Depth-to-	Groundwater
MSCs						,					Groundwater	Elevation
MW-2A	3/17/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	1.21	1115.07
	6/8/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	1.27	1115.01
	8/30/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NΛ	3.23	1113.05
	11/17/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.25	1114.03
	3/1/2011	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	0.91	1115.37
	5/31/2011	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	ΝΛ	2.16	1114.12
	8/24/2011	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.52	1113.76
	3/28/2012	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	0.45	1115.83
	6/25/2012	5.22	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	4.51	1111.77
	9/6/2012	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.21	1113.07
	12/14/2012	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΔ	NA	4.12	1112.16
	3/5/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	4.30	1111.98
	5/28/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.00	1113.28
	9/9/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	4.06	1112.22
	12/2/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	3.48	1112.80
	3/25/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.67	1112.61
	6/11/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	3.90	1112.38
	9/24/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	4.20	1112.08
	12/17/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	1.80	1114.48
	3/31/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	1.38	1114.90
	5/4/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.00	1114.28
	5/26/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.61	1112.67
	9/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.85	1112.43
	12/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.53	1113.75
	2/10/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	1.69	1114.59
	5/11/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.26	1114.02
	8/18/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.75	1112.53

Page 3 of 18

						Compo	und				1	
					Ethyl-	Xylenes						
Piezometer/Well	Date	MTBE	Benzene	Toluene	benzene	(Total)	Cumene	Naphthalene	1,3,5-TMB	1.2,4-TMB		
PADEP UARSHS		20	5	1.000	700	10.000	840	100	420	15	Depth-to-	Groundwater
MSCs						,					Groundwater	Elevation
MW-3	3/18/2010	43.2	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.43	1112.16
	6/7/2010	44.0	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.40	1112.19
	8/31/2010	41.4	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NΛ	3.92	1110.67
	11/17/2010	40.3	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.48	1111.11
	3/2/2011	33.2	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	1.81	1112.78
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	8/24/2011	32.3	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.38	1111.21
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NA	NA	1.40	1113.19
	6/25/2012	21.9	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	3.17	1111.42
	9/6/2012	27.5	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.17	1110.42
	12/14/2012	18.4	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	5.63	1108.96
	3/5/2013	11.8	13.4	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	5.36	1109.23
	5/28/2013	12.6	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.40	1110.19
	9/9/2013	20.1	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	5.42	1109.17
	12/2/2013	17.2	<1.00	<1.00	1.55	<2.00	1.65	<1.00	NA	NΛ	5.45	1109.14
	3/25/2014	13.5	<2.00	<2.00	<2.00	<4.00	<2.00	<2.00	NA	NA	5.30	1109.29
	6/11/2014	15.9	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	5.47	1109.12
	9/24/2014	4.60	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	5.69	1108.90
	12/17/2014	8.51	<1.00	<1.00	2.57	2.35	1.36	1.10	NA	NA	3.90	1110.69
	3/31/2015	3.94	<1.00	<1.00	1.17	<2.00	<1.00	<1.00	NΛ	NA	2.62	1111.97
	5/4/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	5/26/2015	7.32	<1.00	<1.00	4.03	3.74	1.56	1.14	<1.00	9.50	5.00	1109.59
	9/14/2015	2.82	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.12	1108.47
	12/15/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.15	1109.44
	2/10/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.40	1111.19
	5/10/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	3.13	3.60	1110.99
	8/18/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.88	1108.71

Page 4 of 18

						Compo	und				T T	
					Ethyl-	Xylenes						
Piezometer/Well	Date	MTBE	Benzene	Toluene	benzene	(Total)	Cumene	Naphthalene	1,3,5-TMB	1,2,4-TMB		
PADEP UARSHS		20	5	1.000	700	10.000	840	100	420	15	Depth-to-	Groundwater
MSCs					/00	,			420		Groundwater	Elevation
MW-4	3/18/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	0.97	1111.60
	6/7/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	2.17	1110.40
	8/31/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NΛ	4.44	1108.13
	11/17/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.26	1109.31
	3/2/2011	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	0.92	1111.65
	5/31/2011	NS	NS	NS	NS	NS	NŚ	NS	NS	NS	NG	NG
	8/24/2011	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.24	1109.33
	3/28/2012	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	1.20	1111.37
	6/25/2012	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	2.74	1109.83
	9/6/2012	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.11	1108.46
	12/14/2012	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	3.40	1109.17
	3/5/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	2.58	1109.99
	5/28/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.61	1108.96
	9/9/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	5.00	1107.57
	12/2/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	4.40	1108.17
	3/25/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	2.90	1109.67
	6/11/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.71	1108.86
	9/24/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	4.85	1107.72
	12/17/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.10	1109.47
	3/31/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	1.12	1111.45
	5/4/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	5/26/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.35	1108.22
	9/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.34	1107.23
	12/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.46	1108.11
	2/10/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	1.75	1110.82
	5/10/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.34	1110.23
	8/18/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.24	1107.33

Page 5 of 18

						Compo	und				1	
Piezometer/Well	Date	MTBE	Benzene	Toluene	Ethyl- benzene	Xylenes (Total)	Cumene	Naphthalene	1,3,5-TMB	1,2,4-TMB		
PADEP UARSHS MSCs		20	5	1,000	700	10,000	840	100	420	15	Depth-to- Groundwater	Groundwater Elevation
MW-5	3/17/2010	5.4	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	1.16	1112.65
	6/7/2010	4.8	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	1.53	1112.28
	8/31/2010	3.8	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NΛ	3.18	1110.63
	11/17/2010	2.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.80	1111.01
	3/1/2011	1.2	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	0.43	1113.38
	5/31/2011	NS	NS	NS	NS	NS	NŚ	NS	NS	NŚ	NG	NG
	8/24/2011	5.7	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.64	1111.17
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.04	1112.77
				We	ll could not	be located.	Well not par	t of quarterly sa	mpling prograr	n.		
	9/14/2015	3.06	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.55	1107.26
	12/15/2015	1.90	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.21	1108.60
	2/10/2016	2.19	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.96	1109.85
	5/10/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.28	1109.53
	8/18/2016	1.13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.03	1107.78
MW-6	3/17/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
	6/7/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
	8/31/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
	11/17/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
	3/1/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
	8/24/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	ŇĠ	Not Surveyed
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
				We	ll could not	be located.	Well not par	t of quarterly sa	mpling program	n.		

Page 6 of 18

						Compo	und					
					Ethyl-	Xylenes					1	
Piezometer/Well	Date	MTBE	Benzene	Toluene	benzene	(Total)	Cumene	Naphthalene	1,3,5-TMB	1,2,4-TMB		
PADEP UARSHS		20	5	1.000	700	10.000	840	100	420	15	Depth-to-	Groundwater
MSCs			-		/00	,					Groundwater	Elevation
MW-7	3/18/2010	3.6	59.5	11.5	44.4	54.7	25.6	44.5	NA	NA	2.60	1106.92
	6/7/2010	3.1	57.7	12.9	55.2	60.3	35.4	61.3	NΛ	NA	5.77	1103.75
	8/31/2010	6.8	104	14.4	47.9	49.2	29.3	38.7	NA	NΛ	7.92	1101.60
	11/17/2010	7.2	97.9	12.5	46.5	47.4	27.3	57.7	NA	NA	6.85	1102.67
	3/2/2011	4.1	51.9	8.8	39,3	27.7	22.4	20.9	NA	NA	3.93	1105.59
	5/31/2011	NS	NS	NS	NS	NS	NŚ	NŚ	NS	NŚ	NG	NG
	8/24/2011	7.7	73.8	10.2	25.8	28.5	31.3	40.7	NA	NA	7.21	1102.31
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NA	NA	7.15	1102.37
	6/25/2012	3.84	<1.00	<1.00	<1.00	< 2.00	<1.00	<1.00	NA	NΛ	7.49	1102.03
	9/6/2012	10.6	NA	<2.00	<2.00	<4.00	<2.00	<2.00	NA	NA	7.76	1101.76
	12/14/2012	<2.00	NA	14.8	89.5	43.6	29.0	65.4	NΛ	NA	5.80	1103.72
	3/5/2013	<1.00	NΛ	2.29	5.67	5.16	2.25	3.28	NA	NΛ	6.55	1102.97
	5/28/2013	<1.00	NA	<1.00	1.07	<2.00	1.89	<1.00	NA	NA	6.30	1103.22
	9/9/2013	5.10	NA	<1.00	<1.00	<2.00	2.75	<1.00	NA	NA	7.80	1101.72
	12/2/2013	2.97	NA	9.81	29.3	17.1	17.0	38.6	NA	NΛ	7.08	1102.44
	3/25/2014	2.42	NA	<2.00	<2.00	<4.00	<2.00	<2.00	NA	NA	6.26	1103.26
	6/11/2014	2.58	NA	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	6.80	1102.72
	9/24/2014	2.09	NΛ	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	8.02	1101.50
	12/17/2014	2.93	NA	<1.00	<1.00	<2.00	1.60	<1.00	NA	NA	6.02	1103.50
	3/31/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	5/4/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	5/26/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	9/14/2015	2.30	NA	2.33	2.41	4.18	10.4	11.8	11.3	27.9	8.07	1101.45
	12/14/2015										6.79	1102.73
	2/9/2016		W.		·			ved by PADEP	11/10/14		5.41	1104.11
	5/10/2016		we	in not part of	quarterry sa	unphing prog	, ann (approv	CU DY PADEP	11/19/13).		6.49	1103.03
	8/17/2016										7.88	1101.64

Page 7 of 18

						Compo	und				1	
					Ethyl-	Xylenes					1	
Piezometer/Well	Date	MTBE	Benzene	Toluene	benzene	(Total)	Cumene	Naphthalene	1,3,5-TMB	1,2,4-TMB		
PADEP UARSHS MSCs		20	5	1,000	700	10,000	840	100	420	15	Depth-to- Groundwater	Groundwater Elevation
MW-9	3/17/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
	6/8/2010	32.8	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	0.00	Not Surveyed
	8/30/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
	11/17/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
	3/1/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
	8/24/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
						Well	could not be	e located.				
MW-10	3/17/2010	8.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	1.64	1108.37
	6/7/2010	8.8	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	0.78	1109.23
	8/31/2010	8.7	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	2.08	1107.93
	11/17/2010	7.7	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.50	1107.51
	3/2/2011	7.1	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	0.14	1109.87
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NΛ	NA	NG	NG
	8/24/2011	7.5	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	1.42	1108.59
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.42	1108.59
	6/25/2012	5.01	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	1.23	1108.78
	9/6/2012	6.16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	2.10	1107.91
	12/14/2012	5.56	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	2.08	1107.93
	3/5/2013	5.80	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	1.81	1108.20
	5/28/2013	4.92	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	1.90	1108.11
	9/9/2013	6.87	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	2.70	1107.31
	12/2/2013	5.58	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	2.34	1107.67
	3/25/2014	<2.00	4.02	<2.00	<2.00	<4.00	<2.00	<2.00	NA	NA	1.70	1108.31
	6/11/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	2.20	1107.81
	9/24/2014	4.06	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	3.00	1107.01
	12/17/2014	4.67	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	1.04	1108.97
	3/31/2015	4.13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	0.80	1109.21
	5/4/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	5/26/2015	3.85	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.00	1108.01
	9/14/2015	4.98	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.23	1106.78
	12/14/2015										1.96	1108.05
	2/9/2016		W.	Il not nort of	Canantarh	malingar	ram (ann	ed by PADEP	(1/10/15)		0.05	1109.96
	5/10/2016		we	n not part of	quarterly sa	impring prog	gram (approv	CU Dy FADEP	(1/19/13).		0.21	1109.80
	8/17/2016										2.72	1107.29

Page 8 of 18

						Compo	ound				1	
Piezometer/Well	Date	МТВЕ	Benzene	Toluene	Ethyl- benzene	Xyienes (Total)	Cumene	Naphthalene	1,3,5-TMB	1,2,4-TMB		
PADEP UARSHS MSCs		20	5	1,000	700	10,000	840	100	420	15	Depth-to- Groundwater	Groundwater Elevation
MW-12	3/17/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	6/7/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	8/31/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	11/17/2010	30.3	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.28	1109.63
	3/2/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	8/24/2011	NS	NS	NS	NS	NS	NS	NS	NS	NŠ	NG	NG
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
				We	ll could not	be located.	Well not par	t of quarterly sa	mpling prograr	n.		
	9/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.32	1107.59
	12/15/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.90	1109.01
	2/10/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.44	1110.47
	5/10/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.52	1110.39
	8/18/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.00	1107.91
MW-14	3/17/2010	23.9	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	1.97	1114.16
	6/7/2010	18.7	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.22	1113.91
	8/31/2010	35.4	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.43	1111.70
	11/17/2010	21.3	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.40	1112.73
	3/2/2011	2.2	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	1.62	1114.51
	5/31/2011	21.4	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.44	1112.69
	8/24/2011	17.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.80	1111.33
	3/28/2012	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.71	1113.42
	6/25/2012	8.80	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.59	1112.54
	9/6/2012	19.8	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	4.63	1111.50
	12/14/2012	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	6.89	1109.24
	3/5/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	7.14	1108.99
	5/28/2013	1.38	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.80	1111.33
	9/9/2013	3.30	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	6.30	1109.83
	12/2/2013	1.52	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	6.00	1110.13
	3/25/2014	< 1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	6.40	1109.73
	6/11/2014	1.45	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	6.16	1109.97
	9/24/2014	1.02	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NÁ	NA	7.26	1108.87
	12/17/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	1.66	1114.47
	3/31/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	1.50	1114.63
	5/4/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	5/26/2015	1.37	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.74	1110.39
	9/14/2015	1.85	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.60	1109.53
	12/14/2015	1.34	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.15	1110.98
	2/9/2016	1.79	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.72	1112.41
	5/11/2016	4.40	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.01	1112.12
	8/17/2016	2.51	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.15	1109.98

Page 9 of 18

						Compo	und				1	
					Ethyl-	Xylenes						
Piezometer/Well	Date	MTBE	Benzene	Toluene	benzene	(Total)	Cumene	Naphthalene	1,3,5-TMB	1.2,4-TMB		
PADEP UARSHS		20	5	1.000	700	10.000	840	100	420	15	Depth-to-	Groundwater
MSCs		20				,					Groundwater	Elevation
MW-15	3/18/2010	6.2	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	1.73	1113.03
	6/7/2010	6.8	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	2.08	1112.68
	8/31/2010	7.0	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NΛ	3.88	1110.88
	11/17/2010	6.3	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.44	1111.32
	3/2/2011	4.8	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	1.51	1113.25
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NA	NΛ	NG	NG
	8/24/2011	6.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.27	1111.49
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.20	1112.56
	6/25/2012	6.98	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	3.11	1111.65
	9/6/2012	5.64	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.18	1110.58
	12/14/2012	2.23	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	5.45	1109.31
	3/5/2013	1.70	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	4.97	1109.79
	5/28/2013	1.09	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.30	1110.46
	9/9/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	5.51	1109.25
	12/2/2013	1.76	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	5.52	1109.24
	3/25/2014	1.30	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	5.16	1109.60
	6/11/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	5.65	1109.11
	9/24/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	6.15	1108.61
	12/17/2014	1.69	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.30	1111.46
	3/31/2015	1.59	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	2.35	1112.41
	5/4/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	5/26/2015	1.69	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.85	1109.91
	9/14/2015	1.39	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.11	1108.65
	12/15/2015	1.08	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.71	1110.05
	2/10/2016	1.49	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.00	1112.76
	5/10/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.50	1111.26
	8/18/2016	1.23	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.90	1108.86

Page 10 of 18

1 1						Compo	und					
					Ethyl-	Xylenes					1	
Piezometer/Well	Date	MTBE	Benzene	Toluene	benzene	(Total)	Cumene	Naphthalene	1,3,5-TMB	1,2,4-TMB		
PADEP UARSHS MSCs		20	5	1,000	700	10,000	840	100	420	15	Depth-to- Groundwater	Groundwater Elevation
MW-17	3/18/2010	9.0	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	0.73	Not Surveyed
	6/7/2010	1.3	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	0.09	Not Surveyed
	8/31/2010	13.0	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NΛ	1.78	Not Surveyed
	11/17/2010	11.2	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	1.70	Not Surveyed
	3/1/2011	7.4	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	0.11	Not Surveyed
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
	8/24/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
						Well	could not be	e located.				
MW-21	3/17/2010	41.3	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	1.86	1112.07
	6/7/2010	42.2	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.12	1111.81
	8/30/2010	40.0	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	3.43	1110.50
ľ	11/17/2010	35.9	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.22	1110.71
	3/2/2011	33.9	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	1.50	1112.43
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	8/24/2011	37.5	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.05	1110.88
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NA	NA	2.10	1111.83
	6/25/2012	21.7	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	2.94	1110.99
	9/6/2012	42.1	<2.00	<2.00	<2.00	<4.00	<2.00	<2.00	NA	NA	3.79	1110.14
	12/14/2012	10.8	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	5.09	1108.84
	3/5/2013	12.7	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.61	1109.32
	5/28/2013	9.92	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.97	1109.96
	9/9/2013	31.2	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.90	1109.03
	12/2/2013	2.24	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.80	1109.13
	3/25/2014	4.71	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.50	1109.43
	6/11/2014	4.35	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.90	1109.03
	9/24/2014	8.24	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	5.44	1108.49
	12/17/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.16	1110.77
	3/31/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	2.29	1111.64
	5/4/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	5/26/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.16	1109.77
	9/14/2015	8.11	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.32	1108.61
	12/15/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.19	1109.74
	2/10/2016	2.11	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.03	1110.90
	5/10/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.08	1110.85
	8/18/2016	2.53	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.14	1108.79

Page 11 of 18

						Compo	und				1	
					Ethyl-	Xylenes					1	
Piezometer/Well	Date	MTBE	Benzene	Toluene	benzene	(Total)	Cumene	Naphthalene	1,3,5-TMB	1,2,4-TMB		
PADEP UARSHS MSCs		20	5	1,000	700	10,000	840	100	420	15	Depth-to- Groundwater	Groundwater Elevation
MW-22	3/17/2010	5.8	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	1.79	1110.57
	6/7/2010	8.4	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	2.18	1110.18
	8/30/2010	8.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NΛ	3.60	1108.76
	11/17/2010	6.7	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.38	1108.98
	3/2/2011	6.0	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	1.42	1110.94
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	8/24/2011	10.5	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.04	1109.32
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.11	1110.25
					W	ell not part o	of quarterly	sampling progra	m.		<b>5</b> 1	
MW-23	3/17/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.51	1112.10
	6/7/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.03	1112.58
	8/31/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.63	1109.98
	11/17/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.90	1110.71
	3/2/2011	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.02	1112.59
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	8/24/2011	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.93	1110.68
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.80	1111.81
					w	ell not part o	of quarterly :	sampling progra	m.			
MW-28	3/17/2010	4.5	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	3.13	1113.61
	6/8/2010	3.4	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.44	1113.30
	8/30/2010	6.4	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	ΝΛ	NA	5.64	1111.10
	11/17/2010	4.1	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	4.46	1112.28
	3/1/2011	7.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.01	1113.73
	5/31/2011	3.4	NA	NΛ	NA	NΛ	NA	NA	NΛ	NA	4.82	1111.92
	8/24/2011	4.9	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	4.97	1111.77
	3/28/2012	14.6	NA	NA	NA	NA	NA	NA	NA	NA	2.88	1113.86
	6/25/2012					Monitoring v	vell converte	ed to remedial e	xtraction well.			
	12/17/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	3.97	1112.77
	3/31/2015	<1.00	56.4	244	13.4	196	<1.00	2.69	NA	NA	3.24	1113.50
	5/4/2015	2.55	42.0	5.10	12.9	44.6	1.58	4.34	5.76	18.9	4.11	1112.63
	5/26/2015	4.13	<1.00	<1.00	2.53	13.2	<1.00	1.32	2.35	3.83	6.85	1109.89
	9/14/2015	<5.00	<5.00	<5.00	<5.00	<10.0	<5.00	<5.00	<5.00	<5.00	6.88	1109.86
	12/14/2015	<2.00	10.2	<2.00	15.8	219	<2.00	16.4	24.1	79.4	5.41	1111.33
	2/9/2016	<1.00	232	301	12.8	74.4	<1.00	2.93	4.58	15.3	4.03	1112.71
	5/11/2016	<10.0	<10.0	<10.0	<10.0	<20.0	<10.0	<10.0	<10.0	<10.0	4.41	1112.33
	8/17/2016	<5.00	254	634	49.9	469	<5.00	7.45	9.00	23.7	6.49	1110.25

Page 12 of 18

						Compo	und					
					Ethyl-	Xylenes					1	
Piezometer/Well	Date	MTBE	Benzene	Toluene	benzene	(Total)	Cumene	Naphthalene	1,3,5-TMB	1,2,4-TMB		
PADEP UARSHS		20	5	1.000	700	10.000	840	100	420	15	Depth-to-	Groundwater
MSCs						,					Groundwater	Elevation
MW-29	3/17/2010	35.0	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.61	1112.04
	6/7/2010	39.7	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.83	1111.82
	8/30/2010	39.0	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NΛ	4.95	1109.70
	11/17/2010	37.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.95	1110.70
	3/2/2011	9.8	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	2.23	1112.42
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NA	NΛ	NG	NG
	8/24/2011	37.1	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.81	1110.84
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NA	NA	2.71	1111.94
	6/25/2012	22.8	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	3.58	1111.07
	9/6/2012	25.0	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.58	1110.07
	12/14/2012	3.13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	5.77	1108.88
	3/5/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	5.36	1109.29
	5/28/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.70	1109.95
	9/9/2013	1.39	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	5.65	1109.00
	12/2/2013	11.0	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	5.47	1109.18
	3/25/2014	4.06	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	5.25	1109.40
	6/11/2014	5.47	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	5.65	1109.00
	9/24/2014	2.20	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	6.17	1108.48
	12/17/2014	9.76	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.92	1110.73
	3/31/2015	2.73	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	3.03	1111.62
	5/4/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	5/26/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.90	1109.75
	9/14/2015	3.41	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.05	1108.60
	12/15/2015	5.70	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.92	1109.73
	2/10/2016	4.99	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.73	1110.92
	5/10/2016	7.44	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.90	1110.75
	8/18/2016	5.23	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.85	1108.80

Page 13 of 18

						Compo	und				1	
					Ethyl-	Xylenes						
Piezometer/Well	Date	MTBE	Benzene	Toluene	benzene	(Total)	Cumene	Naphthalene	1,3,5-TMB	1.2,4-TMB		
PADEP UARSHS		20	5	1.000	700	10.000	840	100	420	15	Depth-to-	Groundwater
MSCs		20			/00	10,000	040	100			Groundwater	Elevation
MW-30	3/18/2010	17.0	23.9	<1.00	14.5	12.2	1.9	2.5	NA	NA	2.23	1112.55
	6/7/2010	20.1	17.9	<1.00	12.4	10.5	1.9	<2.00	NΛ	NA	2.41	1112.37
	8/31/2010	22.7	<1.00	<1.00	3.1	<3.00	<1.00	<2.00	NA	NΛ	4.07	1110.71
	11/17/2010	25.9	<1.00	<1.00	1.8	<3.00	<1.00	<2.00	NA	NA	3.61	1111.17
	3/2/2011	22.7	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	2.35	1112.43
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	8/24/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	6/25/2012	8.41	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	3.31	1111.47
	9/6/2012	10.8	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.30	1110.48
	12/14/2012	4.08	<2.00	<2.00	<2.00	<4.00	<2.00	<2.00	NΛ	NA	5.91	1108.87
	3/5/2013	6.13	1.80	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	5.50	1109.28
	5/28/2013	6.56	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.51	1110.27
	9/9/2013	6.28	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	5.68	1109.10
	12/2/2013	13.5	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	5.74	1109.04
	3/25/2014	7.18	<2.00	<2.00	<2.00	<4.00	<2.00	<2.00	NA	NA	5.39	1109.39
	6/11/2014	3.10	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	5.84	1108.94
	9/24/2014	8.54	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	6.40	1108.38
	12/17/2014	5.38	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.55	1111.23
	3/31/2015	<2.00	3.18	<2.00	<2.00	<4.00	<2.00	<2.00	NΛ	NA	2.58	1112.20
	5/4/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	5/26/2015	5.50	17.9	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	22.9	5.00	1109.78
	9/14/2015	4.96	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.18	1108.60
	12/15/2015	8.75	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.91	1109.87
	2/10/2016	5.04	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.45	1111.33
	5/10/2016	3.23	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	1.10	3.40	1111.38
	8/18/2016	5.98	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.93	1108.85

Page 14 of 18

						Compo	und					
Piezometer/Well	Date	MTBE	Benzene	Toluene	Ethyl- benzene	Xyienes (Total)	Cumene	Naphthalene	1,3,5-TMB	1,2,4-TMB		
PADEP UARSHS MSCs		20	5	1,000	700	10,000	840	100	420	15	Depth-to- Groundwater	Groundwater Elevation
MW-31	3/17/2010	7.8	668	783	265	2,700	26.4	119	NA	NA	3.16	1113.86
	6/8/2010	6.3	336	118	119	754	10.2	61.8	NΛ	NA	3.61	1113.41
	8/30/2010	8.0	18.8	1.1	10.5	34.1	1.3	3.3	NA	NΛ	5.73	1111.29
	11/17/2010	6.7	60.5	<1.00	20.6	20.4	1.8	4.3	NA	NA	4.73	1112.29
	3/1/2011	4.8	9.2	1.4	3.6	4.1	<1.00	<2.00	NΛ	NA	3.48	1113.54
	5/31/2011	6.3	66.1	<1.00	20.0	22.1	2.3	2.1	NA	NΛ	4.74	1112.28
	8/24/2011	14.3	439	7.2	135	272	12	35.7	NA	NA	5.03	1111.99
	3/28/2012	16.2	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.18	1113.84
	6/25/2012				1	Monitoring v	vell converte	ed to remedial e	xtraction well.			
	12/17/2014	<1.00	<1.00	<1.00	<1.00	13.6	<1.00	<1.00	NA	NA	4.30	1112.72
	3/31/2015	5.95	938	3,540	370	3,170	45.4	224	NΛ	NA	3.59	1113.43
	5/4/2015	<10.0	157	71.7	36.8	422	<10.0	38.4	48.3	154	4.43	1112.59
	5/26/2015	3.91	8.17	<1.00	11.3	26.8	1.00	6.56	5.62	34.1	6.80	1110.22
	9/14/2015	2.18	17.4	<1.00	<1.00	3.68	<1.00	<1.00	1.06	4.60	7.33	1109.69
	12/14/2015	1.67	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.61	1111.41
	2/9/2016	1.60	2,300	5,390	306	1,810	18.6	68.9	108	278	4.03	1112.99
	5/11/2016	2.51	3.50	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.50	1112.52
-	8/17/2016	<50.0	154	666	<50.0	598	<50.0	<50.0	<50.0	64.0	6.60	1110.42

Page 15 of 18

		Compound								1		
		Ethyl- Xylenes										
Piezometer/Well	Date	MTBE	Benzene	Toluene	benzene	(Total)	Cumene	Naphthalene	1,3,5-TMB	1.2,4-TMB		
PADEP UARSHS		20	5	1.000	700	10.000	840	100	420	15	Depth-to-	Groundwater
MSCs		20			/00	,			420		Groundwater	Elevation
MW-32	5/28/2010	4.1	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.22	1113.03
	6/8/2010	2.8	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.21	1114.04
	8/30/2010	1.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	5.16	1112.09
	11/17/2010	2.2	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.64	1112.61
	3/1/2011	2.7	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	2.94	1114.31
	5/31/2011	2.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.15	1113.10
	8/24/2011	2.8	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.58	1112.67
	3/28/2012	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.49	1114.76
	6/25/2012	4.51	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	4.51	1112.74
	9/6/2012	4.07	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	5.51	1111.74
	12/14/2012	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	5.65	1111.60
	3/5/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	5.50	1111.75
	5/28/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	5.22	1112.03
	9/9/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	6.50	1110.75
	12/2/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	5.80	1111.45
	3/25/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	5.45	1111.80
	6/11/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	6.10	1111.15
	9/24/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	6.39	1110.86
	12/17/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.19	1113.06
	3/31/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	3.70	1113.55
	5/4/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.45	1112.80
	5/26/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.21	1111.04
	9/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.72	1110.53
	12/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.81	1112.44
	2/10/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.74	1113.51
	5/11/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.79	1113.46
	8/17/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.86	1111.39

Page 16 of 18

		Compound									T T	
					Ethyl-	Xylenes					7	
Piezometer/Well	Date	MTBE	Benzene	Toluene	benzene	(Total)	Cumene	Naphthalene	1,3,5-TMB	1,2,4-TMB		
PADEP UARSHS MSCs		20	5	1,000	700	10,000	840	100	420	15	Depth-to- Groundwater	Groundwater Elevation
MW-33	5/28/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.41	1113.17
	6/8/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	3.36	1114.22
	8/30/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NΛ	5.25	1112.33
	11/17/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.96	1112.62
	3/1/2011	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NΛ	NA	3.42	1114.16
	5/31/2011	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NΛ	4.38	1113.20
	8/24/2011	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	4.72	1112.86
	3/28/2012	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	2.70	1114.88
	6/25/2012	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	4.66	1112.92
	9/6/2012	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	5.70	1111.88
	12/14/2012	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	4.72	1112.86
	3/5/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	4,46	1113.12
	5/28/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.15	1113.43
	9/9/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	6.40	1111.18
	12/2/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	5.56	1112.02
	3/25/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.60	1112.98
	6/11/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	5.32	1112.26
	9/24/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NΛ	5.71	1111.87
	12/17/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	4.29	1113.29
	3/31/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	4.00	1113.58
	5/4/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	5/26/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.37	1112.21
	9/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.49	1111.09
	12/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.45	1113.13
	2/10/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.61	1113.97
	5/11/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.65	1112.93
-	8/17/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.22	1111.36
MW-34	12/17/2014	2.94	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.39	1112.69
	3/31/2015	3.69	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	3.65	1113.43
	5/4/2015	4.54	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.50	1112.58
	5/26/2015	1.75	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.18	1109.90
	9/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.25	1109.83
	12/14/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.67	1111.41
	2/9/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.24	1112.84
	5/11/2016	1.66	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.64	1112.44
	8/17/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.69	1110.39

Page 17 of 18

		Compound										
Piezometer/Well	Date	мтве	Benzene	Toluene	Ethyl- benzene	Xyienes (Total)	Cumene	Naphthalene	1,3,5-TMB	1,2,4-TMB		
PADEP UARSHS MSCs		20	5	1,000	700	10,000	840	100	420	15	Depth-to- Groundwater	Groundwater Elevation
MW-35	12/17/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.66	1112.62
	3/31/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NΛ	NA	3.94	1113.34
	5/4/2015	1.53	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.79	1112.49
	5/26/2015	3.95	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.71	1109.57
	9/14/2015	1.90	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.92	1109.36
	12/14/2015	1.70	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.99	1111.29
	2/9/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.99	1113.29
	5/11/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.88	1112.40
_	8/17/2016	6.50	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.98	1110.30
MW-36	12/17/2014	3.24	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	4.08	1112.60
	3/31/2015	4.94	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	1.65	1115.03
	5/4/2015	4.23	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.16	1112.52
	5/26/2015	4.45	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.22	1109.46
	9/14/2015	3.93	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.02	1109.66
	12/14/2015	3.31	1.22	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.20	1109.48
	2/9/2016	1.97	2.98	1.22	1.68	10.0	<1.00	<1.00	<1.00	1.76	4.02	1112.66
	5/11/2016	3.59	3.62	1.34	1.89	11.9	<1.00	<1.00	<1.00	2.10	4.39	1112.29
	8/17/2016	10.0	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.44	1110.24

Notes: Groundwater elevation data reported in feet (ft), Depth-to-groundwater results are reported in feet below top-of-casing (ft-btoc), All results reported in ug/l. Bold values indicate levels above LRL. Bold and shaded values indicate exceedance of PADEP UARSHS MSCs. NG - Not Gauged. NA - Not Analyzed. NS - Not Sampled. Well elevations were re-surveyed in June 2015 and September 2015.

Page 18 of 18

### TABLE 4 GROUNDWATER FIELD SCREENING PARAMETER DATA Kwik Fill M-90 1322 South 2nd Street Clearfield, PA 16830

		Temp	Conductivity	Total Dissolved Solids	Dissolved Oxygen	pH (standard	Oxidation Reduction Potential
Well ID	Date	(°C)	(mS/cm)	(mg/l)	(mg/l)	units)	(mV)
MW-1	17-Dec-14	10.17	1.795	1,167	2.13	4.63	158.5
	31-Mar-15	4.77	2.447	1,592	2.35	4.73	169.4
	04-May-15	8.70	2.335	1,517	1.74	6.64	356.9
	26-May-15	12.30	1.991	1,294	2.38	6.43	393.7
	14-Sep-15	18.99	1.002	651	0.48	6.58	207.1
	14-Dec-15	12.76	0.915	595	3.21	6.39	332.0
	09-Fcb-16	8.50	1.348	877	5.25	7.04	392.7
	11-May-16	11.72	1.175	763	2.69	7.11	295.1
	17-Aug-16	20.57	0.754	490	4.06	7.26	331.7
MW-1A	17-Dec-14	13.49	1.791	1,164	1.08	5.03	161.7
	31-Mar-15	6.84	4.292	2,785	1.67	5.30	146.7
	04-May-15	9.61	3.043	1,976	3.01	6.64	289.2
	26-May-15	11.60	2.079	1,351	2.00	6.58	317.1
	14-Sep-15	19.69	0.894	581	0.65	6.82	148.9
	14-Dec-15	15.63	1.134	737	3.90	6.86	292.2
	09-Fcb-16	10.59	1.240	806	12.60	7.01	329.2
	10-May-16	11.47	1.278	831	2.54	6.90	266.2
	18-Aug-16	17.65	0.727	473	0.48	6.17	280.4
MW-2	17-Dec-14	11.34	1.183	769	2.50	4.70	187.3
	31-Mar-15	6.55	2.316	1,509	0.42	4.85	153.1
	04-May-15	9.35	2.546	1,658	0.52	6.87	310.8
	26-May-15	10.90	1.297	843	2.48	6.35	365.8
	14-Sep-15	17.51	1.625	1,056	3.00	6.73	288.3
	14-Dec-15	14.51	3.050	1,982	0.50	6.16	252.3
	09-Fcb-16	10.41	2.976	1,936	0.40	6.60	300.1
	11-May-16	11.47	1.554	1,011	0.40	6.37	190.2
	17-Aug-16	17.91	0.781	508	0.36	6.32	195.0
MW-2A	25-Jun-12	14.01	1.173	NA	0.28	5.75	68.8
	06-Sep-12	15.57	0.481	NA	0.14	6.12	4.6
	14-Dec-12	12.20	0.407	NA	0.06	6.40	6.1
	05-Mar-13	9.66	0.317	206	0.92	6.01	229.1
	28-May-13	10.47	0.461	300	0.23	6.52	141.5
	09-Sep-13	14.87	0.458	297	0.34	6.43	184.7
	25-Mar-14	8.09	0.220	143	1.78	7.31	348.0
	11-Jun-14	10.90	0.311	202	0.87	6.41	41.5
	24-Sep-14	14.64	0.342	222	0.91	5.80	140.8
	26-May-15	13.58	0.320	206	1.22	5.99	160.5

### TABLE 4 GROUNDWATER FIELD SCREENING PARAMETER DATA Kwik Fill M-90 1322 South 2nd Street Clearfield, PA 16830

		Temp	Conductivity	Total Dissolved Solids	Dissolved Oxygen	pH (standard	Oxidation Reduction Potential
Well ID	Date	(°C)	(mS/cm)	(mg/l)	(mg/l)	units)	(mV)
MW-3	25-Jun-12	16.33	1.210	NA	0.17	6.62	-62.7
	06-Sep-12	18.13	1.085	NA	0.13	6.64	-53.1
	14-Dec-12	14.98	1.197	NA	0.08	6.84	-78.9
	05-Mar-13	10.86	1.859	1,208	0.23	6.77	7.7
	28-May-13	12.02	1.453	944	0.29	7.08	-37.4
	09-Sep-13	16.67	1.221	794	0.17	7.02	-4.0
	25-Mar-14	9.22	1.868	1,215	0.71	7.27	222.4
	11-Jun-14	13.05	1.420	922	0.37	7.04	-120.8
	24-Sep-14	17.87	4.507	2,929	12.82	12.46	-9.7
	17-Dec-14	12.79	3.215	2,089	6.42	5.60	21.2
	31-Mar-15	7.59	2.322	1,509	3.93	4.99	18.6
	26-May-15	12.63	2.332	1,515	3.90	7.99	70.6
	14-Sep-15	17.92	3.032	1,971	6.23	12.09	16.7
	15-Dec-15	14.30	2.579	1,675	14.17	11.52	69.5
	10-Feb-16	10.24	2.063	1,341	13.05	10.50	234.7
	10-May-16	11.83	1.619	1,053	2.51	9.91	63.2
	18-Aug-16	18.35	2.042	1,327	9.49	7.95	315.4
MW-4	25-Jun-12	18.10	1.129	NA	0.54	6.50	-78.9
	06-Sep-12	19.40	0.883	NA	0.19	6.32	4.1
	14-Dec-12	11.73	0.870	NA	0.24	6.49	42.5
	05-Mar-13	8.19	0.865	562	0.20	6.57	196.1
	28-May-13	10.89	0.897	583	0.37	6.56	39.1
	09-Sep-13	15.37	0.876	569	0.36	6.52	80.7
	25-Mar-14	7.08	0.857	557	1.55	7.01	334.5
	11-Jun-14	10.30	0.813	529	0.65	7.08	69.7
	24-Sep-14	14.93	0.969	630	0.28	6.41	88.7
	17-Dec-14	10.37	0.795	516	0.80	4.61	144.5
	26-May-15	13.68	0.965	627	0.65	6.60	40.4
MW-5	14-Sep-15	16.05	1.524	991	0.56	6.68	-27.9
	15-Dec-15	13.08	1.290	839	0.38	6.45	146.3
	10-Feb-16	9.66	1.419	922	0.36	6.76	20.9
	10-May-16	10.64	1.087	707	0.32	7.09	-29.9
	18-Aug-16	17.61	1.159	754	0.43	6.61	-51.1
				Total			Oxidation
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		_		Dissolved	Dissolved	pН	Reduction
		Temp	Conductivity	Solids	Oxygen	(standard	Potential
Well ID	Date	(°C)	(mS/cm)	(mg/l)	(mg/l)	units)	(mV)
MW-7	25-Jun-12	12.34	1.805	NA	0.53	6.68	-134.9
	06-Sep-12	17.16	1.618	NA	0.10	7.44	-205.0
	14-Dec-12	12.25	1.428	NA	0.14	7.02	-112.4
	05-Mar-13	8.81	1.266	823	0.18	6.99	-2.3
	28-May-13	9.97	0.616	394	0.47	7.42	-12.7
	09-Sep-13	16.08	1.440	936	0.33	7.13	-97.1
	25-Mar-14	7.72	1.565	1,017	0.61	7.47	172.3
	11-Jun-14	11.54	1.296	842	0.30	7.30	-186.0
	24-Sep-14	14.76	1.416	920	0.10	7.40	-106.5
	17-Dec-14	10.44	1.437	934	0.11	6.96	-10.6
	14-Sep-15	14.72	1.300	845	0.60	6.74	-23.9
MW-10	25-Jun-12	16.52	2.832	NA	0.23	6.59	-141.3
	06-Sep-12	18.34	2.554	NA	0.09	6.64	-115.2
	14-Dec-12	12.63	2.190	NA	0.17	6.76	-95.5
	05-Mar-13	9.76	1.671	1,087	0.12	6.80	-12.5
	28-May-13	11.57	2.141	1,392	0.38	6.90	-31.1
	09-Sep-13	18.17	2.215	1,440	0.25	6.97	-69.5
	25-Mar-14	7.51	1.311	852	0.63	7.34	233.5
	11-Jun-14	13.68	1.303	847	0.47	7.14	-162.9
	24-Sep-14	17.63	1.893	1,231	0.21	6.66	-10.2
	17-Dec-14	11.42	1.583	1,029	0.06	5.04	4.0
	31-Mar-15	7.37	1.617	1,052	0.10	5.21	-52.3
	26-May-15	11.96	1.550	1,007	1.20	6.77	147.4
	14-Sep-15	18.83	1.786	1,162	0.49	6.65	-52.0
MW-12	14-Sep-15	18.21	0.253	165	0.53	6.93	-19.6
	15-Dec-15	14.15	0.207	135	1.92	6.47	266.3
	10-Feb-16	10.68	0.374	243	3.16	6.69	254.0
	10-May-16	12.10	0.270	176	0.98	6.80	22.7
	18-Aug-16	17.68	0.473	307	0.36	6.09	253.7

		T		Total Dissolved	Dissolved	рН	Oxidation Reduction
		Temp	Conductivity	Solids	Oxygen	(standard	Potential
Well ID	Date	(°C)	(mS/cm)	(mg/l)	(mg/l)	units)	(mV)
MW-14	25-Jun-12	14.82	0.423	NA	3.80	6.12	45.4
	06-Sep-12	17.96	0.405	NA	0.21	5.91	101.5
	14-Dec-12	13.93	0.314	NA	1.56	7.65	187.5
	05-Mar-13	10.57	0.355	231	1.08	6.44	226.7
	28-May-13	10.93	0.420	273	0.39	6.55	214.7
	09-Sep-13	17.04	0.408	265	0.38	6.16	238.2
	25-Mar-14	8.90	0.815	530	0.21	7.41	336.7
	11-Jun-14	11.68	0.552	359	0.32	6.94	-55.5
	24-Sep-14	15.78	0.504	327	0.33	6.39	108.8
	17-Dec-14	9.71	6.570	371	1.66	5.24	139.7
	31-Mar-15	5.89	0.883	569	1.69	3.92	192.5
	26-May-15	10.41	0.932	606	1.27	6.35	393.8
	14-Sep-15	15.91	0.466	303	0.65	6.10	235.9
	14-Dec-15	13.55	0.540	351	0.66	6.16	319.1
	09-Fcb-16	10.01	0.736	478	0.34	6.52	393.0
	11-May-16	10.61	0.555	360	0.36	6.47	206.1
	17-Aug-16	15.34	0.485	315	0.48	6.05	219.5
MW-15	25-Jun-12	16.23	1.034	NA	0.25	6.45	-51.8
	06-Sep-12	17.60	0.916	NA	0.09	6.53	-44.6
	14-Dec-12	14.62	1.081	NA	0.15	6.81	-30.7
	05-Mar-13	11.28	1.225	797	0.14	6.79	139.3
	28-May-13	11.54	1.460	949	0.46	6.83	9.8
	09-Sep-13	16.86	1.019	663	0.28	6.95	28.4
	25-Mar-14	9.37	0.883	574	0.00	7.26	313.0
	11-Jun-14	13.36	0.773	502	0.90	7.14	-139.9
	24-Sep-14	15.51	1.070	696	0.16	6.77	3.7
	17-Dec-14	13.46	0.973	633	0.07	5.26	67.0
	31-Mar-15	9.04	1.633	1,060	0.13	5.10	101.8
	26-May-15	14.24	1.398	909	2.37	6.78	183.8
	14-Sep-15	15.86	1.288	838	0.49	6.52	46.3
	15-Dec-15	14.70	1.003	652	0.48	6.49	232.5
	10-Fcb-16	12.1	1.132	737	0.34	6.64	290.8
	10-May-16	11.39	1.510	982	0.60	6.75	146.2
	18-Aug-16	15.04	1.213	788	0.43	6.27	13.7

Well ID	Date	Temp (°C)	Conductivity (mS/cm)	Total Dissolved Solids (mg/l)	Dissolved Oxygen (mg/l)	pH (standard units)	Oxidation Reduction Potential (mV)
MW-21	25-Jun-12	16.84	1.174	NA	0.25	6.62	-92.0
	06-Sep-12	19.82	0.640	NA	0.08	6.68	-78.3
	14-Dec-12	14.83	0.532	NA	0.26	6.98	-89.9
	05-Mar-13	11.21	0.613	397	0.06	6.93	-39.1
	28-May-13	12.51	0.559	365	0.19	7.03	-57.3
	09-Sep-13	17.59	0.681	443	0.23	7.18	-63.2
	25-Mar-14	9.44	0.534	347	0.41	7.45	153.0
	11-Jun-14	14.45	0.251	163	0.57	7.01	-128.0
	24-Sep-14	18.76	0.609	396	0.09	6.99	-48.2
	17-Dec-14	12.14	0.434	282	2.17	4.54	124.9
	31-Mar-15	4.54	0.259	175	4.16	4.77	61.0
	26-May-15	12.17	0.302	196	1.60	7.02	216.7
	14-Sep-15	18.46	0.680	442	0.52	6.88	-110.6
	15-Dec-15	14.94	0.238	156	1.78	6.54	321.4
	10-Fcb-16	11.03	0.431	280	0.54	7.28	242.2
	10-May-16	12.74	0.228	149	1.74	7.44	61.9
	18-Aug-16	18.41	0.362	237	0.25	6.49	-55.1
MW-28	17-Dec-14	9.57	1.067	694	2.15	4.68	179.9
	31-Mar-15	6.68	5.514	3,584	0.17	5.50	163.9
	04-May-15	8.85	2.330	1,514	0.36	6.54	286.8
	26-May-15	10.86	1.986	1,271	2.01	6.37	356.1
	14-Sep-15	15.75	0.959	623	0.76	6.38	230.7
	14-Dec-15	13.39	1.681	1,088	0.84	6.58	248.7
	09-Fcb-16	9.59	2.064	1,338	0.64	6.89	199.3
	11-May-16	10.82	1.345	875	0.40	6.53	195.7
	17-Aug-16	17.17	0.499	325	0.29	6.90	131.9
MW-29	25-Jun-12	14.48	1.061	NA	0.48	6.54	-65.0
	06-Sep-12	17.44	1.894	NA	11.01	11.95	-186.0
	14-Dec-12	14.85	0.905	NA	0.62	7.52	-38.1
	05-Mar-13	10.23	1.242	807	0.67	7.02	19.6
	28-May-13	11.90	0.964	627	0.62	7.43	-34.7
	09-Sep-13	17.71	0.915	595	0.81	7.40	-28.7
	25-Mar-14	9.20	1.298	844	0.75	7.29	-20.7
	11-Jun-14	14.21	1.151	748	0.37	7.12	-85.3
	24-Sep-14	18.61	2.485	1,616	10.76	9.28	83.8
	17-Dec-14	13.39	0.941	611	3.98	4.93	119.2
	31-Mar-15	7.55	1.187	771	1.73	4.64	141.3
	26-May-15	12.30	2.994	1,946	1.64	6.98	229.1
	14-Sep-15	16.45	1.121	728	1.53	7.00	-36.6
	15-Dec-15	15.09	1.330	864	0.58	6.61	226.4
	10-Feb-16	11.35	1.340	871	0.39	7.25	307.2
	10-May-16	11.55	1.175	764	0.34	7.38	100.4
	18-Aug-16	16.16	0.904	588	0.30	6.60	326.1

Well ID	Date	Temp (°C)	Conductivity (mS/cm)	Total Dissolved Solids (mg/l)	Dissolved Oxygen (mg/l)	pH (standard units)	Oxidation Reduction Potential (mV)
MW-30	25-Jun-12	14.34	0.976	NA	0.25	6.35	-46.1
	06-Sep-12	17.02	0.907	NA	0.10	6.44	-43.1
	14-Dec-12	14.90	0.522	NA	0.32	7.03	105.9
	05-Mar-13	11.87	0.876	570	0.09	6.89	-44.4
	28-May-13	11.99	1.133	736	0.15	6.91	-63.1
	09-Sep-13	17.67	0.881	573	0.28	7.05	-65.7
	25-Mar-14	9.68	0.927	603	0.97	7.37	172.9
	11-Jun-14	13.57	0.648	421	0.77	7.20	-152.8
	24-Sep-14	17.33	1.659	1,078	10.96	9.48	76.5
	17-Dec-14	12.56	1.017	661	4.05	5.45	24.8
	31-Mar-15	8.61	2.935	1,908	1.65	5.27	82.2
	26-May-15	12.11	1.982	1,289	1.46	7.52	201.8
	14-Sep-15	16.82	1.571	1,022	1.14	7.21	117.9
	15-Dec-15	15.19	1.234	802	1.92	7.15	238.7
	10-Feb-16	11.96	1.937	1,259	0.46	6.78	282.8
	10-May-16	11.58	2.080	1,353	0.42	6.71	116.8
	18-Aug-16	16.23	1.368	889	2.30	6.67	265.7
MW-31	17-Dec-14	11.02	1.557	1,012	1.85	4.87	166.2
	31-Mar-15	6.60	5.270	3,424	0.09	5.77	5.0
	04-May-15	8.64	3.426	2,226	0.40	6.51	146.2
	26-May-15	10.64	1.602	1,041	1.71	6.35	344.2
	14-Sep-15	15.21	1.453	943	0.84	6.39	175.0
	14-Dec-15	13.84	1.777	1,154	0.49	6.07	228.5
	09-Fcb-16	10.19	1.985	1,289	0.36	6.59	135.1
	11-May-16	10.56	1.884	1,222	0.24	6.48	142.3
	17-Aug-16	16.47	0.439	285	0.29	6.96	128.5
MW-32	25-Jun-12	14.81	3.658	NA	0.25	5.78	60.2
	06-Sep-12	19.97	2.337	NA	0.15	5.87	1.5
	14-Dec-12	14.15	0.853	NA	0.26	6.79	19.1
	05-Mar-13	8.99	0.632	411	0.27	6.74	202.4
	28-May-13	11.11	0.635	412	0.37	6.62	3.8
	09-Sep-13	17.87	0.696	452	0.31	6.61	11.5
	25-Mar-14	7.04	0.896	582	0.67	0.10	367.4
	11-Jun-14	12.53	0.762	495	0.79	6.67	23.1
	24-Sep-14	18.18	0.942	612	0.22	6.31	157.5
	17-Dec-14	12.23	1.314	854	0.09	5.01	173.0
	31-Mar-15	7.04	2.659	1,728	0.13	5.29	157.5
	04-May-15	9.58	2.199	1,429	0.43	5.87	209.4
	26-May-15	11.67	2.332	1,515	0.55	5.88	296.1
	14-Sep-15	17.5	0.876	569	0.82	6.02	284.6
	14-Dec-15	14.51	0.757	492	0.66	6.01	265.5
	10-Feb-16	8.06	2.679	1,741	2.62	6.69	405.1
	11-May-16	11.78	1.522	989	0.30	6.33	188.9
	17-Aug-16	20.00	0.495	322	0.93	6.50	314.6

				Total			Oxidation
				Dissolved	Dissolved	рН	Reduction
		Temp	Conductivity	Solids	Oxygen	(standard	Potential
Well ID	Date	(°C)	(mS/cm)	(mg/l)	(mg/l)	units)	(mV)
MW-33	25-Jun-12	14.64	0.593	NA	0.23	6.65	-87.0
	06-Sep-12	18.15	0.501	NA	0.10	6.55	-74.8
	14-Dec-12	12.44	0.688	NA	0.26	6.96	-7.4
	05-Mar-13	7.01	0.548	356	1.11	7.02	194.8
	28-May-13	11.03	0.538	350	0.21	6.57	17.6
	09-Sep-13	18.47	0.513	333	0.27	6.45	18.1
	25-Mar-14	6.01	0.763	496	1.52	7.31	320.1
	11-Jun-14	13.50	0.650	422	0.73	6.97	8.7
	24-Sep-14	19.57	0.685	445	0.23	6.30	170.0
	26-May-15	12.73	1.053	684	2.04	6.83	294.9
	14-Sep-15	18.28	0.390	253	0.66	5.83	215.3
	14-Dec-15	13.00	0.614	399	2.45	6.81	284.3
	10-Feb-16	8.35	0.756	491	5.27	7.30	390.2
	11-May-16	12.42	0.683	444	0.60	7.30	176.4
	17-Aug-16	17.92	0.460	299	1.68	6.51	276.3
MW-34	17-Dec-14	12.94	2.332	1,516	0.11	6.07	199.8
	31-Mar-15	7.53	3.546	2,307	0.18	5.64	153.8
	04-May-15	9.08	2.973	1,937	0.52	5.76	284.8
	26-May-15	10.53	1.350	878	1.21	6.00	374.6
	14-Sep-15	15.58	0.923	599	0.74	5.70	234.5
	14-Dec-15	14.29	0.944	613	0.83	5.59	276.1
	09-Feb-16	11.16	1.827	1,188	3.70	5.38	255.3
	11-May-16	11.04	2.121	1,376	1.13	5.49	246.2
	17-Aug-16	15.22	1.293	840	2.15	5.06	410.7
MW-35	17-Dec-14	12.46	1.921	1,248	0.24	4.90	234.6
	31-Mar-15	7.21	1.954	1,270	0.31	4.83	194.5
	04-May-15	9.16	1.784	1,159	0.39	5.95	338.6
	26-May-15	10.51	2.191	1,424	3.27	6.02	385.0
	14-Sep-15	17.18	1.973	1,280	2.97	6.17	307.8
	14-Dec-15	14.64	2.109	1,368	2.26	5.90	299.5
	09-Feb-16	10.12	2.450	1,593	3.49	6.27	279.4
	11-May-16	10.99	1.759	1,142	1.72	6.11	254.7
	17-Aug-16	15.92	0.857	557	0.37	6.30	49.8

Well ID	Date	Temp (°C)	Conductivity (mS/cm)	Total Dissolved Solids (mg/l)	Dissolved Oxygen (mg/l)	pH (standard units)	Oxidation Reduction Potential (mV)
MW-36	17-Dec-14	12.49	2.565	1,665	0.70	4.78	341.5
	31-Mar-15	6.46	2.532	1,646	0.65	4.68	256.2
	04-May-15	8.75	2.602	1,691	0.56	4.08	444.4
	26-May-15	10.61	1.716	1,115	1.32	5.39	416.3
	14-Sep-15	17.15	1.130	734	1.16	6.26	253.9
	14-Dec-15	14.77	2.195	1,425	1.54	4.54	368.8
	09-Feb-16	10.31	3.135	2,038	2.33	4.39	326.3
	11-May-16	10.79	2.951	1,918	0.89	3.96	317.5
	17-Aug-16	16.12	0.927	601	0.61	6.14	114.1

Notes:

°C - degrees Celsius.

mg/l - milligrams per liter.

mS/cm - milliSiemens per centimeter.

mV - millivolts.

FIGURES













APPENDICES

Appendix A

System Groundwater/Vapor Analytical Laboratory Reports



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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	07/26/16 10:07
Project Manager: Jed Hill	Number of Containers:	7	

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
INFLUENT	6G14078-01	Water	Grab	07/13/16 11:40	07/14/16 14:10
MIDFLUENT	6G14078-02	Water	Grab	07/13/16 11:45	07/14/16 14:10
EFFLUENT	6G14078-03	Water	Grab	07/13/16 11:50	07/14/16 14:10

Fairway Laboratories, Inc.

Reviewed and Submitted by:

WAT

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.



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



State Certifications: MD 275, WV 364

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Letterle & Associates I...ProjectUNITED CLEARFIELD2022 Axemann Road Jie 201Project Numbers[none]Reported:Bellefonte PA, 16823CollectorsCLIENT07/26/16 10:07Project Manager:Jed HillNumber of Containers7

### Client Sample ID: INFLUENT

Date/Time Sampled: 07/13/16 11:40

Laboratory Sample ID: 6G14078-01 (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	07/15/16 16:44	EPA 8260B	BAG	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/15/16 16:44	EPA 8260B	BAG	
Benzene	<1.00		1.00	ug/l	07/15/16 16:44	EPA 8260B	BAG	2d
Toluene	1.25		1.00	ug/l	07/15/16 16:44	EPA 8260B	BAG	
Ethylbenzene	<1.00		1.00	ug/l	07/15/16 16:44	EPA 8260B	BAG	
Xylenes (total)	<2.00		2,00	ug/l	07/15/16 16:44	EPA 8260B	BAG	
Isopropylbenzene	<1.00		1.00	ug/l	07/15/16 16:44	EPA 8260B	BAG	
Methyl tert-butyl ether	3.29		1.00	ug/l	07/15/16 16:44	EPA 8260B	BAG	2d
Naphthalene	<1.00		1.00	ug/l	07/15/16 16:44	EPA 8260B	BAG	2d
Surrogate: 4-Bromofluorobenzene	9	9.3 %	70-	130	07/15/16 16:44	EPA 8260B	BAG	
Surrogate: 1,2-Dichloroethane-d4	ار ا	109 %	<b>70-</b>	130	07/15/16 16:44	EPA 8260B	BAG	
Surrogate: Fluorobenzene		III %	70	130	07/15/16 16:44	EPA 8260B	BAG	

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.



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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	07/26/16 10:07
Project Manager: Jed Hill	Number of Containers:	7	

Client Sample ID: MIDFLUENT

Date/Time Sampled: 07/13/16 11:45

Laboratory Sample ID: 6G14078-02 (Water/Grab)

Analista	Rcsult	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
Analyte	Kesuit	MIDL	KL	Onits	Analyzed	Memou	Analyst	NULC
Volatile Organic Compounds by EPA	Method 8260B							
1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/15/16 16:06	EPA 8260B	BAG	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/15/16 16:06	EPA 8260B	BAG	
Benzene	<1.00		1.00	ug/l	07/15/16 16:06	EPA 8260B	BAG	2d
Toluene	1.04		1.00	ug/l	07/15/16 16:06	EPA 8260B	BAG	
Ethylbenzene	<1.00		1.00	ug/l	07/15/16 16:06	EPA 8260B	BAG	
Xylenes (total)	<2.00		2.00	ug/l	07/15/16 16:06	EPA 8260B	BAG	
Isopropylbenzene	<1.00		1.00	ug/l	07/15/16 16:06	EPA 8260B	BAG	
Methyl tert-butyl ether	3.38		1.00	ug/l	07/15/16 16:06	EPA 8260B	BAG	2đ
Naphthalene	<1.00		1.00	ug/I	07/15/16 16:06	EPA 8260B	BAG	2d
Surrogate: 4-Bromofluorobenzene		101 %	70-1	130	07/15/16 16:06	EPA 8260B	BAG	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-1	130	07/15/16 16:06	EPA 8260B	BAG	
Surrogate: Fluorobenzene		111 %	70-1	130	07/15/16 16:06	EPA 8260B	BAG	

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.



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



State Certifications: MD 275, WV 364

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Letterle & Associates Inc.		Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 2	201	Project Number:	[none]	Reported:
Bellefonte PA, 16823		Collector:	CLIENT	07/26/16 10:07
Project Manager: Jed 2	Hill Nu	mber of Containers:	7	

## Client Sample ID: EFFLUENT

Date/Time Sampled: 07/13/16 11:50

Laboratory Sample ID: 6G14078-03 (Water/Grab)

Analyte	Rcsult	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	07/15/16 15:29	EPA 8260B	BAG	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/15/16 15:29	EPA 8260B	BAG	
Benzene	<1.00		1.00	ug/l	07/15/16 15:29	EPA 8260B	BAG	2d
Toluene	<1.00		1.00	ug/l	07/15/16 15:29	EPA 8260B	BAG	
Ethylbenzene	<1.00		1.00	ug/l	07/15/16 15:29	EPA 8260B	BAG	
Xylenes (total)	<2.00		2.00	ug/l	07/15/16 15:29	EPA 8260B	BAG	
Isopropylbenzene	<1.00		1.00	ug/l	07/15/16 15:29	EPA 8260B	BAG	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/15/16 15:29	EPA 8260B	BAG	24
Naphthalene	<1.00		1.00	ug/l	07/15/16 15:29	EPA 8260B	BAG	2d
Surrogate: 4-Bromofluorobenzene		99.3 %	70-1	130	07/15/16 15:29	EPA 8260B	BAG	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-1	130	07/15/16 15:29	EPA 8260B	BAG	
Surrogate: Fluorobenzene		111 %	70-1	130	07/15/16 15:29	EPA 8260B	BAG	
<b>Conventional Chemistry Parameters</b>	by SM/EPA Me	thods						
Oil & Grease	<5.00		5.00	mg/l	07/18/16 15:12	EPA 1664A	SR.	

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.



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



State Certifications: MD 275, WV 364

Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	07/26/16 10:07
Project Manager: Jed Hill	Number of Containers:	7	

### Notes

2d

The LCS spike recovery was outside acceptance limits for the noted analyte. 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.

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.</p>
- 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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89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Bellefonte PA, 16823	Collector:	CLIENT	07/26/16 10:07
Project Manager: Jed Hill	Number of Containers:	7	

#### 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 clicut includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for usc.

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 Laboratorics, 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.

FAIRWAY     LABORATORIES     PD: Environmental Laboratory     PD: Envi	By relinguishing my sample to Fairway Laboratories,	Relinquished by:	Relinquished by Date	Relinquished by Conserve T-144	ſ N	Sampled by:			EFFlumt	mselfluent	Influent x	Sample Description/Location	TAT: Normal X Rush Rush TAT subject to pre-approval and surcharge Date Required: / / /	Project Name: United Clearfield Quote/PO #:	# <del>?</del>   %	ime:	CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS Prease print. See back of COC for instructions/terms and conditions.
P.O. Box 1925 Altoona, PA 16602 Fax: (814) 946-4306 Fax: (814) 946-4306 Fax: (814) 946-8791 Analyses Requested Analyses Requested Analyses Requested Analyses Requested Remarks Remarks White Original - FLI File Canary - FLI Copy Pink	Inc., I hereby agree to the terms and conditions printed o	Received by:		<u>o</u> x		Received by: CDO nA				II: 45	7-13	Start End End S Time Date Time	Composite Start End		xe? Y N P2		
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Page 7 of 8

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*/Vide and ice big for W/V compliance	Intact?	Custody Seals?
Sample Temperature when delivered to the Lab: $LS$ Acceptable? $L \square *$ or In cool down process? $\square *$	<u> </u> ∉ □ *	Received on ICE?
<u>1940 Silent: LETTER (E 7000)</u> Lab # 06 40 10	7/14/16	Date/Time of this check:
	3	Receiver: <u> </u>



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



State Certifications: MD 275, WV 364

	Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
	2022 Axemann Road Suite	Project Number:	[none]	Reported:
Project Manager Ied Hill Number of Containers 3	Bellefonte PA, 16823	Collector:	CLIENT	08/08/16 11:33
Autobe of Containers. 5	Project Manager: Jed	Number of Containers:	3	

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
EFFLUENT	6G28056-01	Water	Grab	07/27/16 11:30	07/28/16 12:55

Client Sample ID: EFFLUENT

Date/Time Sampled: 07/27/16 11:30

Laboratory Sample ID: 6

6G28056-01 (Water/Grab)

					Date / Time		*	
Analyte	Result	MDL	RL	Units	Analyzed	Method	Analyst	Note
Volatile Organic Compounds by EPA	Method 8260B							
Benzene	<1.00		1.00	ug/l	08/02/16 03:41	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	08/02/16 03:41	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	08/02/16 03:41	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	08/02/16 03:41	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	08/02/16 03:41	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/02/16 03:41	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	08/02/16 03:41	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene		99.8 %	70-1	130	08/02/16 03:41	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-1	130	08/02/16 03:41	EPA 8260B	bag	
Surrogate: Fluorobenzene		93.9 %	70-1	130	08/02/16 03:41	EPA 8260B	bag	
Conventional Chemistry Parameters	by SM/EPA Met	thods						
Oil & Grease	<5.00		5.00	mg/l	08/02/16 12:58	EPA 1664A	SR	

Fairway Laboratories, Inc.

Reviewed and Submitted by:

mot

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.

Michael P. Tyler Laboratory Director



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



State Certifications: MD 275, WV 364

Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector.	CLIENT	08/08/16 11:33
Project Manager: Jed Hill	Number of Containers:	3	

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State Certifications: MD 275, WV 364

Letterle & Associates Inc.		Project:	UNITED CLEARFIELD	
2022 Axemann Road Suit	te 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823		Collector:	CLIENT	08/08/16 11:33
Project Manager: Je	ed Hill	Number of Containers:	3	

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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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Please print. See back of COC for instructions/terms Sampled by: (Signature) Date Required: Rush TAT subject to pre-approval and surcharge TAT: Normal 🏝 Rush 🗆 Quote/PO #: Project Name: United Phone #: Contact: Address: Client Name: \_ Fax #: Sample Description/Location Relinquished by: Oblandy conditions. **REQUEST FOR ANALYSIS** Relinquished by: Relinquished by: CHAIN OF QUSTODY/ He work Lok 8 Bellefonte, 2022 Axemann Road Letterle & Associates 814-355-2241 814-355-2410 1+1 Clew field PA 16823 127-6 200 128/16 Date ولاد لا × GRAB Composite Time /255 Time Sample Temp: Received on ice? Start Date Composite Start Received by: Ocharley Received by: B. Sance Les Received and the Received by: Start Time FAIRWAY LABORATORIES ĸ <u>ר - - ר</u> End Date Composite End GRAB z ģ End Time 11:30 PWSID #\_ Reportable to Solid PADEP? Matrix Yes 🛛 Environmental Laboratory Water × 28/12 04.80<sup>91-82-1</sup> 7/28 Other Date Date Date Date # of Containers ω No No 1255 Tume Tume Time Unladed Ger 1998 X White Original - FLI File l Greese Y 64 Analyses Requested Phone: (814) 946-4306 Fax: (814) 946-8791 Altoona, PA 16602 2019 9th Ave. P.O. Box 1925 Canary - FLI Copy Pink - Customer Receipt Copy Remarks Client Page # \_\_\_\_\_ of \_\_\_ FLI Page # Attach # 1508/2 miles **Tracking** # Bottle Type/Comments LAB USE ONLY 

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By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.

Page 4 of 5

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Page 5 of 5



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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.	Project:	UNITED CLEA	RFIELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	08/19/16 10:58
Project Manager: Jed Hill	Number of Containers:	7	

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
INFLUENT	6H10140-01	Water	Grab	08/10/16 10:30	08/10/16 15:25
MIDFLUENT	6H10140-02	Water	Grab	08/10/16 10:35	08/10/16 15:25
EFFLUENT	6H10140-03	Water	Grab	08/10/16 10:40	08/10/16 15:25

Fairway Laboratories, Inc.

Reviewed and Submitted by:

MAT

Michael P. Tyler Laboratory Director Fairway Labs in Altoona, FA 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.



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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	I
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	08/19/16 10:58
Project Manager: Jed Hill	Number of Containers:	7	

### Client Sample ID: INFLUENT

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Date/Time Sampled: 08/10/16 10:30

Laboratory Sample ID: 6H10140-01 (Water/Grab)

					Date / Time		*	
Analyte	Result	MDL	RL	Units	Analyzed	Method	Analyst	Note
Volatile Organic Compounds by EPA	Method 8260B							
1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	08/11/16 21:36	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/11/16 21:36	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	08/11/16 21:36	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	08/11/16 21:36	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	08/11/16 21:36	EPA 8260B	mtc	
Xylenes (total)	<2,00		2.00	ug/l	08/11/16 21:36	EPA 8260B	mtc	
Isopropylbenzene	<1,00		1.00	ug/l	08/11/16 21:36	EPA 8260B	mtc	
Methyl tert-butyl ether	8.07		1.00	ug/l	08/11/16 21:36	EPA 8260B	mtc	2e
Naphthalene	<1.00		1.00	ug/l	08/11/16 21:36	EPA 8260B	mte	
Surrogate: 4-Bromofluorobenzene	98	6%	70-1	30	08/11/16 21:36	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	11	4%	70-1	30	08/11/16 21:36	EPA 8260B	mte	
Surrogate: Fluorobenzene	11	4 %	70-1	30	08/11/16 21:36	EPA 8260B	mte	

Fairway Laboratories, Inc.

Fuirway 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.



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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.Project:UNITED CLEARFIELD2022 Axemann Road Suite 201Project Number:[none]Reported:Bellefonte PA, 16823Collector:CLIENT08/19/16 10:58Project Manager:Jed HillNumber of Containers:7

## Client Sample ID: MIDFLUENT

Date/Time Sampled: 08/10/16 10:35

Laboratory Sample ID: 6H10140-02 (Water/Grab)

Analyte	Result N	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
Volatile Organic Compounds by EPA	Method 8260B							
1,3,5-Trimethylbenzene	<1.00		1 <b>.00</b>	ug/l	08/11/16 22:02	EPA 8260B	mte	
1,2,4-Trimethylbenzene	<1.00		1 <b>.00</b>	ug/l	08/11/16 22:02	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	08/11/16 22:02	EPA 8260B	mte	
Tohucne	<1.00		1.00	ug/l	08/11/16 22:02	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	08/11/16 22:02	EPA 8260B	mte	
Xylenes (total)	<2.00		2.00	ug/l	08/11/16 22:02	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	08/11/16 22:02	EPA 8260B	mtc	
Methyl tert-butyl ether	7.45		1.00	ug/l	08/11/16 22:02	EPA 8260B	mtc	2e
Naphthalene	<1.00		1.00	ug/l	08/11/16 22:02	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98.	2 %	7 <b>0</b> -1	30	08/11/16 22:02	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	11-	4 %	7 <b>0-1</b>	30	08/11/16 22:02	EPA 8260B	mtc	
Surrogate: Fluorobenzene	11	3%	70-1	30	08/11/16 22:02	EPA 8260B	mte	

Fairway Laboratories, Inc.

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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.Project:VNITED CLEARFIELD2022 Axemann Road Suite 201Project Numbers[none]Reported:Beilefonte PA, 16823CollectorsCLIENT08/19/16 10:58Project Manager:Jed HillNumber of Containers:7

## Client Sample ID: EFFLUENT

Date/Time Sampled: 08/10/16 10:40

Laboratory Sample ID: 6H10140-03 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
/olatile Organic Compounds by EPA	Method 8260B							
1,3,5-Trimethylbcnzenc	<1.00		1.00	ug/l	08/11/16 22:28	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/11/16 22:28	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	08/11/16 22:28	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	08/11/16 22:28	EPA 8260B	mtc	
Ethylbenzene	<1.00		1,00	ug/l	08/11/16 22:28	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	08/11/16 22:28	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	08/11/16 22:28	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/11/16 22:28	EPA 8260B	mtc	2e
Naphthalene	<1.00		1.00	ug/l	08/11/16 22:28	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene		99.5 %	70-1	130	08/11/16 22:28	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4		115 %	70-1	130	08/11/16 22:28	EPA 8260B	mtc	
Surrogate: Fluorobenzene		115 %	70-3	130	08/11/16 22:28	EPA 8260B	mtc	
<b>Conventional Chemistry Parameters</b>	by SM/EPA Me	thods						
Oil & Grease	<5.00		5.00	mg/1	08/16/16 11:50	EPA 1664A	SR	

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	vlaboratories.com

Letterle & Associates Inc.	Project:	UNITED CLEARF	TELD
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	08/19/16 10:58
Project Manager: Jed Hill	Number of Containers:	7	

### Notes

2e CCV was outside the QC range for the noted analyte. Data accepted based on additional batch QC.

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MBAS, calculated as LAS, mol wt 348

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

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



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Letterle & Associates Inc.	Project:	UNITED CLEARFIEL	,D
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	08/19/16 10:58
Project Manager: Jed Hill	Number of Containers:	7	

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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.

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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 warrantics, 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 subpoend 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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By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.	Relinquished by: Date	y;	Rechard Streed by Soldeners /10/16	Laws-	Sampled by:			Efflient	Mid Elvent	Joflvent	Sample Description/Location	TAT: Normal M Rush Rush TAT subject to pre-approval and surcharge. Date Required://		Project Name: Un Fed Cleache	*		Address: 2022 Axemann Road Bellefonte DA 16	Client Name: Letterle & Associates	CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS Please print. See back of COC for instructions/terms and conditions.
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By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse,

Page 7 of 8

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This is a date sensitive document and may not be current after August 5, 2016.


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



State Certifications: MD 275, WV 364

Letterle & Associates Inc.	Project:	UNITED CLEARFIELI	)
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	09/06/16 15:59
Project Manager: Jed Hill	Number of Containers:	3	

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
EFFLUENT	6H25060-01	Water	Grab	08/24/16 11:45	08/25/16 13:00

Client Sample ID: EFFLUENT

Date/Time Sampled: 08/24/16 11:45

Laboratory Sample ID: 6H25060-01 (Water/Grab)

					Date / Time		*	
Analyte	Result	MDL	RL	Units	Analyzed	Method	Analyst	Note
Volatile Organic Compounds by EPA	Method 8260B						·	
Benzene	<1,00		1.00	ug/l	08/29/16 20:51	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	08/29/16 20:51	EPA 8260B	sap	
Ethylbenzene	<1.00		1,00	ug/l	08/29/16 20:51	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	08/29/16 20:51	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	08/29/16 20:51	EPA 8260B	sap	
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Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-1	30	08/29/16 20:51	EPA 8260B	sap	
Surrogate: Fluorobenzene		97.7 %	70-1	130	08/29/16 20:51	EPA 8260B	san	
Conventional Chemistry Parameters	by SM/EPA Me	thods						
Oil & Grease	<5.00		5.00	mg/l	08/29/16 16:07	EPA 1664A	SR	

Fairway Laboratories, Inc.

Reviewed and Submitted by:

mot

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.

Michael P. Tyler Laboratory Director



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



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Please print. See back of COC for instructions/terms and conditions. Quote/PO #: Address: Client Name: TAT: Normal X Rush Project Name: Phone #: Contact: Rush TAT subject to pre-approval and surcharge Fax #: Sampled by:\_\_\_\_\_\_(Signature)\_\_\_\_\_ Date Required: Sample Description/Location **REQUEST FOR ANALYSIS** Relinquished by: Relinquished by: Relinquished by: CHAIN OF CUSTODY/ 空く <u>letterle & Associates</u> Bellefonte, PA 16823 814-355-2241 2022 Axemann Road 814-355-2410 led United Clearfield H. 11  $\infty$ The set m 1821 Date Date GRAB × Composite June 1 Time Time 300 Received on ice? Sample Temp: Start Date Composite Start Received by: Ophone y Received by 770 Received by: Received by: Start Time FAIRWAY LABORATORIES ĸ <u>8-24</u> End Date Composite GRAB  $\mathbf{z}$ End -01-MAX A 11:43 End \_# CIIS/M4 Reportable to Solid PADEP? Matrix Yes 🛛 Environmental Laboratory 0 Water X Date 25/11/2 5/20 Other Date Date # of Containers ω ALC: 12ac Time Time Time 500 1998 Unleaded Gas × White Original - FLI File l Grase × 1:0 Analyses Requested Fax: Phone: (814) 946-4306 Altoona, PA 16602 P.O. Box 1925 2019 9th Ave. (814) 946-8791 Canary - FLI Copy Remarks Client Page # \_\_\_\_ Pink - Customer Receipt Copy Work Orders Attach # FLI Page # Tracking # Bottle Type/Comments LAB USE ONLY l Pf, |-ድ | is,

Page 4 of 5

By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.

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Page 5 of 5



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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.	Project:	UNITED CLEA	RFIELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	09/20/16 12:29
Project Manager: Jcd Hill	Number of Containers:	7	

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
INFLUENT	6I12015-01	Water	Grab	09/08/16 12:45	09/09/16 14:00
MIDFLUENT	6I12015-02	Water	Grab	09/08/16 12:50	09/09/16 14:00
EFFLUENT	6112015-03	Water	Grab	09/08/16 12:55	09/09/16 14:00

Fairway Laboratories, Inc.

Reviewed and Submitted by:

mot

Michael P. Tyler Laboratory Director

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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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Letterle & Associates I	n¢.	Project:	UNITED CLEARFIELD	
2022 Axemann Road S	uite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823		Collector:	CLIENT	09/20/16 12:29
Project Manager:	Jed Hill	Number of Containers:	7	

## Client Sample ID: INFLUENT

Date/Time Sampled: 09/08/16 12:45

Laboratory Sample ID: 6112015-01 (Water/Grab)

					Date / Time		*	
Analyte	Result	MDL	RL	Units	Analyzed	Method	Analyst	Note
Volatile Organic Compounds by EPA	Method 8260B						-	
1,3,5-Trimethylbenzenc	<1.00		1.00	ug/l	09/13/16 03:54	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	09/13/16 03:54	EPA 8260B	sap	
Benzene	<1,00		1.00	ug/l	09/13/16 03:54	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	09/13/16 03:54	EPA 8260B	sap	
Ethylbenzene	<1.00		1.00	ug/l	09/13/16 03:54	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	09/13/16 03:54	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	09/13/16 03:54	EPA 8260B	sap	
Methyl tert-butyl ether	5.20		1.00	<b>ug/</b> 1	09/13/16 03;54	EPA 8260B	sap	
Naphthalene	<1.00		1.00	ug/l	09/13/16 03:54	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene	95	.8 %	70	30	09/13/16 03:54	EPA 8260B	sav	
Surrogate: 1,2-Dichloroethane-d4	10	09 %	70	30	09/13/16 03:54	EPA 8260B	sap	
Surrogate: Fluorobenzene	1	04 %	70	30	09/13/16 03:54	EPA 8260B	san	

Fairway Laboratorics, Inc.

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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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Letterle & Associates Inc.	Project:	UNITED CLEAR	RFIELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	09/20/16 12:29
Project Manager: Jed Hill	Number of Containers:	7	

## Client Sample ID: MIDFLUENT

Date/Time Sampled: 09/08/16 12:50

Laboratory Sample ID: 6I12015-02 (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	09/13/16 07:02	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	09/13/16 07:02	EPA 8260B	sap	
Benzene	<1.00		1.00	ug/l	09/13/16 07:02	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	09/13/16 07:02	EPA 8260B	$^{\mathrm{sap}}$	
Ethylbenzene	<1.00		1.00	ug/l	09/13/16 07:02	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	09/13/16 07:02	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	09/13/16 07:02	EPA 8260B	$^{\mathrm{sap}}$	
Methyl tert-butyl ether	4.28		1.00	ug/l	09/13/16 07:02	EPA 8260B	sap	
Naphthalene	<1.00		1.00	ug/l	09/13/16 07:02	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene	9	7.5 %	70	30	09/13/16 07:02	EPA 8260B	sap	
Surrogate: 1,2-Dichloroethane-d4	1	07 %	70-1	30	09/13/16 07:02	EPA 8260B	sap	
Surrogate: Fluorobenzene	1	03 %	70	30	09/13/16 07:02	EPA 8260B	san	

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State Certifications: MD 275, WV 364

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 Letterle & Associates //
 Project
 Project
 UNITED CLEARFIELD

 2022 Axemann Road //
 201
 Project Number:
 [non]
 Reported:

 Bellefonte PA, 16823/
 Collector
 CLIENT
 09/20/16 12:29

 Project Manager:
 Jed Hill
 Number of Contanties
 7

## Client Sample ID: EFFLUENT

Date/Time Sampled: 09/08/16 12:55

Laboratory Sample ID: 6I12015-03 (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/i	09/13/16 07:21	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	09/13/16 07:21	EPA 8260B	sap	
Benzene	<1.00		1.00	ug/l	09/13/16 07:21	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	09/13/16 07:21	EPA 8260B	sap	
Ethylbenzene	<1.00		1.00	ug/l	09/13/16 07:21	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	09/13/16 07:21	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	09/13/16 07:21	EPA 8260B	sap	
Methyl tert-butyl ether	<1.00		1.00	ug/l	09/13/16 07:21	EPA 8260B	sap	
Naphthalene	<1.00		1.00	ug/i	<b>09/13/16 07:2</b> 1	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene		96.7 %	70-1	130	09/13/16 07:21	EPA 8260B	sap	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-j	130	09/13/16 07:21	EPA 8260B	sap	
Surrogate: Fluorobenzene		102 %	70-i	130	09/13/16 07:21	EPA 8260B	Sab	
<b>Conventional Chemistry Parameters</b>	by SM/EPA Me	thods						
Oil & Grease	<5.00		5,00	mg/l	09/14/16 16:20	EPA 1664A	SR	

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



State Certifications: MD 275, WV 364

Letterle & Associates	Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road	Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823		Collector:	CLIENT	09/20/16 12:29
Project Manager:	Jed Hill	Number of Containers:	7	

### Definitions

If surrogate values are not within the indicated range, then the results arc 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.</p>
- 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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89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

Letterle & Associates Inc.	Project:	UNITED CLEAR	FIELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	09/20/16 12:29
Project Manager: Jed Hill	Number of Containers:	7	

#### 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 hy 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 faboratory. 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. All 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 tong-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 warrantics, 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 subpoeua for documents, for testimouy 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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Relinquished by: Date Time Received by: S. S. and S. 9/9/10	Relinquished	Reinfining D P. C.	Xozur Co	Sampled by:								Influent	Sample Description/Location	Rush TAT subject to pre-approval and surcharge Date Required://		Quote/PO #:	Project Name: United Clearfield			Address: <u>2022 Axemann koad</u> berilefonte Då 16823	nne:	and conditions.	CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS Please print. See back of COC for instructions/terms
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By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed off the Adl

Page 7 of 8

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This is a date sensitive document and may not be current after September 9, 2016.



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



State Certifications: MD 275, WV 364

Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	10/11/16 09:10
Project Manager: Jed Hill	Number of Containcrs:	3	

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
EFFLUENT	6I28063-01	Water	Grab	09/27/16 09:00	09/28/16 13:05

Fairway Laboratories, Inc.

Reviewed and Submitted by:

most

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.



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



State Certifications: MD 275, WV 364

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Letterle & Associates I...ProjectUNITED CLEARFIELD2022 Axemann Road Site 201Project Numbers[none]Reported:Bellefonte PA, 16823CollectorsCLIENT10/11/16 09:10Project Manager:Jed HillNumber of Containers3

Client Sample ID: EFFLUENT

Date/Time Sampled: 09/27/16 09:00

Laboratory Sample ID: 6128063-01 (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/i	10/01/16 16:53	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	10/01/16 16:53	EPA 8260B	sap	
Benzene	<1.00		1.00	ug/l	10/01/16 16:53	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	10/01/16 16:53	EPA 8260B	sap	2e, AA
Ethylbenzene	<1.00		1.00	ug/l	10/01/16 16:53	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	10/01/16 16:53	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	10/01/16 16:53	EPA 8260B	sap	
Methyl tert-butyl ether	<1.00		1.00	ug/l	10/01/16 16:53	EPA 8260B	sap	
Naphthalene	<1.00		1 <b>.00</b>	ug/l	10/01/16 16:53	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene		93.8 %	70-3	130	10/01/16 16:53	EPA 8260B	sap	
Surrogate: 1,2-Dichloroethane-d4		108 %	<b>70</b> -3	130	10/01/16 16:53	EPA 8260B	sap	
Surrogate: Fluorobenzene		99.0 %	70-3	130	10/01/16 16:53	EPA 8260B	sap	
Conventional Chemistry Parameters	by SM/EPA Me	thods						
Oil & Grease	<5.00		5.00	mg/l	10/05/16 15:54	EPA 1664A	SR	

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State Certifications: MD 275, WV 364

Letterle & Associate	s Inc.	Project:	UNITED CLEARI	FIELD
2022 Axemann Road	i Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	3	Collector:	CLIENT	10/11/16 09:10
Project Manager:	Jed Hill	Number of Containers:	3	

### Notes

2e CCV was outside the QC range for the noted analyte. Data accepted based on additional batch QC.

AA Toluene was detected in the method blank, data may be biased high. Samples were non-detect for toluene, therefore data was not impacted.

### Definitions

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

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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.

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State Certifications: MD 275, WV 364

Letterle & Associates	Inc.	Project:	UNITED CLEA	ARFIELD
2022 Axemann Road	Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	,	Collector:	CLIENT	10/11/16 09:10
Project Manager:	Jed Hill	Number of Containers:	3	

#### 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 Faurway. 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 use 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.

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.



By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.

Page 5 of 6

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Page 6 of 6

This is a date sensitive document and may not be current after September 26, 2016.



8/9/2016

Mr. Jed Hill Letterle and Associates, Inc 2022 Axemann Road, Suite 201 Bellefonte, PA 16823

Dear Jed:

Enclosed are the sample data report, chain of custody record and quality control data for the sample(s) received on August 2, 2016 for your project; 277 - United Refining - Clearfield M-90.

Please give me a call if you have questions or I can be of further assistance. Thank you for using Vaportech Services.

Sincerely,

David J. Masdea Laboratory Director

Enclosure:

1158 Pittsburgh Road, Suite 201, Valencia, PA 16059 Ph: 724-898-2622 Fx: 724-898-2633 www.vaportechservices.com

# Vaportech Services, Inc.

LET442\_6176

## Letterle and Associates, Inc. Project: 277 - United Refining - Clearfield M-90

## CONCENTRATIONS IN PPMV

COMPOUND	INFLUENT	MIDFLUENT	EFFLUENT	PQL
MTBE	ND	ND	ND	0.07
BENZENE	ND	ND	ND	0.07
TOLUENE	ND	ND	ND	0.07
ETHYL BENZENE	ND	ND	ND	0.07
M&P XYLENE	ND	ND	ND	0.07
O-XYLENE	ND	ND	ND	0.07
CUMENE	ND	ND	ND	0.07
NAPHTHALENE	ND	ND	ND	0.07
TOTAL C4-C12*	4.02	3,50	3.19	0.07

FILE NAME	V83A.271.BND	V83A.272.BND	V83A.273.BND
DATE SAMPLED	07/27/16	07/27/16	07/27/16
DATE RECEIVED	08/02/16	08/02/16	08/02/16
DATE ANALYZED	08/08/16	08/08/16	08/08/16

PQL - denotes lower 'Practical Quantitation Limit'

ND - 'Not Detected' at or above the lower practical quantitation limit

\* Includes the total of all compounds in the C4-C12 hydrocarbon range, calculated using the sensitivity of hexane

Reviewed by:

# Vaportech Services, Inc.

## Letterle and Associates, Inc. Quality Control Laboratory Project(s): 6176

## **CONCENTRATIONS IN PPMV**

## CONTINUING CALIBRATION CHECK

## LABORATORY BLANK RESULTS

STANDARDS: FILE NAME: DATE ANALYZED:	STD 21V R4 V83A.268.BND 08/08/16	STD PA BTEX-H V83A.269.BND 08/08/16		BLANK: FILE NAME: DATE ANALYZEI	N2 IN VIAL V83A.267.BND ): 08/08/16	
						PRACTICAL
						QUANTITATION
	KNOWN	RESULT	PERCENT		BLANK	LIMIT
COMPOUND	(PPMV)	(PPMV)	DIFFERENCE	COMPOUND	(PPMV)	(PPMV)
MTBE	50.33	49.89	0.87	MTBE	ND	0.07
BENZENE	1.25	1.26	0.72	BENZENE	ND	0.07
TOLUENE	1.06	1.09	3.11	TOLUENE	ND	0.07
ETHYL BENZENE	0.92	0.96	4.57	ETHYL BENZ	ENE ND	0.07
M&P XYLENE	1.84	1.91	3.70	M&P XYLENE	ND	0.07
O-XYLENE	0.92	0.97	5.22	O-XYLENE	ND	0.07
CUMENE	36.91	38.72	4.89	CUMENE	ND	0.07
NAPHTHALENE	34.61	39.86	15.16	NAPHTHALEN	NE ND	0.07
				TOTAL C4-C1	2* ND	0.07

ND - 'Not Detected' at or above the lower practical quantitation limit

Reviewed by:

レモディリン - 6174 CHAIN-OF-CUSTODY RECORD CHAIN-OF-CUSTODY RECORD CHAIN-OF-CUSTODY RECORD Company Name: Letterfe & Associates Address: 2022 Axeman Road, Suite 201 Chy: Belleforne Chy: Chy: Belleforne Chy: Chy: Belleforne Chy: Chy: Chy: Chy: Chy: Chy: Chy: Chy:	of Sample Sample Sample Sample Type Identification Strain (Othor) Remarks Lab Use	Vapor Influent G H C4-C12 C4-C12	H D	Vapor Effluent G H C4-C12 20				Email: [hill@letterleassociates.com] Invoice to : 2859 Oxford Blvd., Suite 110 Email:		Company: Date: Time: Received by: Company: Date: Time: VA part e.c. 8/2/16 15100	Date :	Comment
	Sample Type	Vapor	Vapor	Vapor				Email:		Company :	Company :	Comnane .
LETYUS LOF-CUSTODY RE Name: Letterle & Associates 2022 Axemann Road, Suite 201 Bellefonte Bellefonte ion: Jed Hill lone: Jed Hill er: <u>Jed Hill</u> er: <u>Jed Hill</u> ger: Jed Hill inted Refining - Cle ber: <u>#277</u> 814-355-2241 814-355-2241 signature : <u>ber</u>	Number of Containers	1	1									
FC	Time	9:00	9:05	9:10				Jed Hill		d by :	sd by :	1 h.
CHAIN-OF-C Company Name: I Address: 2022 <u>Axen</u> City: <u>Bellefonte</u> Proj. Manager: J Proj. Location: <u>1</u> Proj. Location: <u>1</u> Proj. Location: <u>1</u> Proj. Janager: J Proj. Sellefonte Prose order: <u>814-355-2</u> Phone #: <u>814-355-2</u>	Collection Date	7/27/2016	7/27/2016	7/27/2016				Results to : Jed Hill	N.S. A.S.	Relinquished by :	Relinquished by :	Dollarssished har

Appendix B

Quarterly Groundwater Analytical Laboratory Reports



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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates	Inc.	Project:	UNITED CLEA	RFIELD
2022 Axemann Road	Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823		Collector:	CLIENT	09/01/16 12:49
Project Manager:	Jed Hill	Number of Containers:	40	

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1	6H19121-01	Water	Grab	08/17/16 10:58	08/19/16 14:10
MW-1A	6H19121-02	Water	Grab	08/18/16 08:58	08/19/16 14:10
MW-2	6H19121-03	Water	Grab	08/17/16 11:32	08/19/16 14:10
MW-2A	6H19121-04	Water	Grab	08/18/16 08:40	08/19/16 14:10
MW-3	6H19121-05	Water	Grab	08/18/16 10:25	08/19/16 14:10
MW-4	6H19121-06	Water	Grab	08/18/16 09:25	08/19/16 14:10
MW-5	6H19121-07	Water	Grab	08/18/16 11:23	08/19/16 14:10
MW-12	6H19121-08	Water	Grab	08/18/16 09:41	08/19/16 14:10
MW-14	6H19121-09	Water	Grab	08/17/16 10:42	08/19/16 14:10
MW-15	6H19121-10	Water	Grab	08/18/16 09:18	08/19/16 14:10
MW-21	6H19121-11	Water	Grab	08/18/16 11:03	08/19/16 14:10
MW-28	6H19121-12	Water	Grab	08/17/16 12:04	08/19/16 14:10
MW-29	6H19121-13	Water	Grab	08/18/16 10:42	08/19/16 14:10
MW-30	6H19121-14	Water	Grab	08/18/16 10:00	08/19/16 14:10
MW-31	6H19121-15	Water	Grab	08/17/16 12:22	08/19/16 14:10
MW-32	6H19121-16	Water	Grab	08/17/16 13:08	08/19/16 14:10
MW-33	6H19121-17	Water	Grab	08/17/16 12:53	08/19/16 14:10
MW-34	6H19121-18	Water	Grab	08/17/16 13:27	08/19/16 14:10

Fairway Laboratories, Inc.

Reviewed and Submitted by:

mot

Michael P. Tyler Laboratory Director

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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-35	6H19121-19	Water	Grab	08/17/16 11:48	08/19/16 14:10
MW-36	6H19121-20	Water	Grab	08/17/16 11:18	08/19/16 14:10

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State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.	Project:	UNITED CLEAR	FIELD
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-1

Date/Time Sampled: 08/17/16 10:58

Laboratory Sample ID: 6H19121-01 (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	08/26/16 22:16	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 22:16	EPA 8260B	sap	
Benzene	<1.00		1.00	ug/l	08/26/16 22:16	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	08/26/16 22:16	EPA 8260B	sap	
Ethylbenzene	<1.00		1.00	ug/l	08/26/16 22:16	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	08/26/16 22:16	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	08/26/16 22:16	EPA 8260B	sap	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/26/16 22:16	EPA 8260B	sap	
Naphthalene	<1.00		1.00	ug/l	08/26/16 22:16	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene		96.4 %	70-1	30	08/26/16 22:16	EPA 8260B	sap	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-1	30	08/26/16 22:16	EPA 8260B	sap	
Surrogate: Fluorobenzene		97.0 %	70-1	30	08/26/16 22:16	EPA 8260B	sap	

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State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.	Project:	UNITED CLEA	RFIELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-1A

Date/Time Sampled: 08/18/16 08:58

6H19121-02 (Water/Grab) Laboratory Sample ID: Date / Time MDL RL Units Analyzed Method Analyst Note Result Analyte Volatile Organic Compounds by EPA Method 8260B 1,3,5-Trimethylbenzene <1.00 1.00 ug/l 08/25/16 23:58 EPA 8260B sap 1,2,4-Trimethylbenzene <1.00 1.00 08/25/16 23:58 EPA 8260B ug/l sap 08/25/16 23:58 EPA 8260B Benzene < 1.001.00 ug/l sap Toluene <1.00 1.00 ug/l 08/25/16 23:58 EPA 8260B sap Ethylbenzene <1.00 1.00 08/25/16 23:58 EPA 8260B ug/l sap Xylenes (total) <2.00 2.00 ug/l 08/25/16 23:58 EPA 8260B sap Isopropylbenzene <1.00 1.0008/25/16 23:58 EPA 8260B ug/l sap Methyl tert-butyl ether 1.95 1.00 08/25/16 23:58 EPA 8260B ug/l sap Naphthalene <1.00 1.00 08/25/16 23:58 ug/l EPA 8260B sap Surrogate: 4-Bromofluorobenzene 96.6% 70-130 08/25/16 23:58 EPA 8260B sap 08/25/16 23:58 EPA 8260B Surrogate: 1,2-Dichloroethane-d4 93.6% 70-130 sap Surrogate: Fluorobenzene 97.2% 70-130 08/25/16 23:58 EPA 8260B sap

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State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.	Project:	UNITED CLEAR	FIELD
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-2

**Date/Time Sampled:** 08/17/16 11:32

Laboratory Sample ID: 6H19121-03 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
Volatile Organic Compounds by EPA	A Method 8260B							
1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 00:35	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 00:35	EPA 8260B	sap	
Benzene	<1.00		1.00	ug/l	08/26/16 00:35	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	08/26/16 00:35	EPA 8260B	sap	
Ethylbenzene	<1.00		1.00	ug/l	08/26/16 00:35	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	08/26/16 00:35	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	08/26/16 00:35	EPA 8260B	sap	
Methyl tert-butyl ether	7.31		1.00	ug/l	08/26/16 00:35	EPA 8260B	sap	
Naphthalene	<1.00		1.00	ug/l	08/26/16 00:35	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene	ç	05.6%	70-1	130	08/26/16 00:35	EPA 8260B	sap	
Surrogate: 1,2-Dichloroethane-d4	9	03.7%	70-1	130	08/26/16 00:35	EPA 8260B	sap	
Surrogate: Fluorobenzene	Ş	07.4%	70-1	130	08/26/16 00:35	EPA 8260B	sap	

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State Certifications: MD 275, WV 364

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Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	ſ
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-2A

Date/Time Sampled: 08/18/16 08:40

6H19121-04 (Water/Grab) Laboratory Sample ID: Date / Time MDL RL Units Analyzed Method Analyst Note Result Analyte Volatile Organic Compounds by EPA Method 8260B 1,3,5-Trimethylbenzene <1.00 1.00 ug/l 08/26/16 01:12 EPA 8260B sap 1,2,4-Trimethylbenzene <1.00 1.00 08/26/16 01:12 EPA 8260B ug/l sap 08/26/16 01:12 EPA 8260B Benzene < 1.001.00 ug/l sap Toluene <1.00 1.00 ug/l 08/26/16 01:12 EPA 8260B sap Ethylbenzene <1.00 1.00 08/26/16 01:12 EPA 8260B ug/l sap Xylenes (total) <2.00 2.00 ug/l 08/26/16 01:12 EPA 8260B sap Isopropylbenzene <1.00 1.0008/26/16 01:12 EPA 8260B ug/l sap Methyl tert-butyl ether <1.00 1.00 08/26/16 01:12 EPA 8260B ug/l sap Naphthalene <1.00 1.00 08/26/16 01:12 ug/l EPA 8260B sap Surrogate: 4-Bromofluorobenzene 96.1% 70-130 08/26/16 01:12 EPA 8260B sap 08/26/16 01:12 EPA 8260B Surrogate: 1,2-Dichloroethane-d4 92.9% 70-130 sap Surrogate: Fluorobenzene 97.1% 70-130 08/26/16 01:12 EPA 8260B sap

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State Certifications: MD 275, WV 364

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Letterle & Associates Inc.	Project:	UNITED CLEAD	RFIELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-3

Date/Time Sampled: 08/18/16 10:25

Laboratory Sample ID: 6H19121-05 (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	08/26/16 02:27	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 02:27	EPA 8260B	sap	
Benzene	<1.00		1.00	ug/l	08/26/16 02:27	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	08/26/16 02:27	EPA 8260B	sap	
Ethylbenzene	<1.00		1.00	ug/l	08/26/16 02:27	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	08/26/16 02:27	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	08/26/16 02:27	EPA 8260B	sap	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/26/16 02:27	EPA 8260B	sap	
Naphthalene	<1.00		1.00	ug/l	08/26/16 02:27	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene		96.9 %	70-1	30	08/26/16 02:27	EPA 8260B	sap	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-1	30	08/26/16 02:27	EPA 8260B	sap	
Surrogate: Fluorobenzene		97.2 %	70-1	30	08/26/16 02:27	EPA 8260B	sap	

Fairway Laboratories, Inc.

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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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Letterle & Associates Inc.	Project:	UNITED CLEARF	IELD
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-4

Date/Time Sampled: 08/18/16 09:25

Laboratory Sample ID: 6H19121-06 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
Volatile Organic Compounds by EP.	A Method 8260B							
1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 07:29	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 07:29	EPA 8260B	sap	
Benzene	<1.00		1.00	ug/l	08/26/16 07:29	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	08/26/16 07:29	EPA 8260B	sap	
Ethylbenzene	<1.00		1.00	ug/l	08/26/16 07:29	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	08/26/16 07:29	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	08/26/16 07:29	EPA 8260B	sap	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/26/16 07:29	EPA 8260B	sap	
Naphthalene	<1.00		1.00	ug/l	08/26/16 07:29	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene		97.4 %	70-1	30	08/26/16 07:29	EPA 8260B	sap	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-1	30	08/26/16 07:29	EPA 8260B	sap	
Surrogate: Fluorobenzene		96.5 %	70-1	30	08/26/16 07:29	EPA 8260B	sap	

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Letterle & Associates Inc.	Project:	UNITED CLEAR	FIELD
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-5

Date/Time Sampled: 08/18/16 11:23

Laboratory Sample ID: 6H19121-07 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
Volatile Organic Compounds by EPA	A Method 8260B							
1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 08:07	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 08:07	EPA 8260B	sap	
Benzene	<1.00		1.00	ug/l	08/26/16 08:07	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	08/26/16 08:07	EPA 8260B	sap	
Ethylbenzene	<1.00		1.00	ug/l	08/26/16 08:07	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	08/26/16 08:07	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	08/26/16 08:07	EPA 8260B	sap	
Methyl tert-butyl ether	1.13		1.00	ug/l	08/26/16 08:07	EPA 8260B	sap	
Naphthalene	<1.00		1.00	ug/l	08/26/16 08:07	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene		96.2 %	70-1	130	08/26/16 08:07	EPA 8260B	sap	
Surrogate: 1,2-Dichloroethane-d4		93.9%	70-1	130	08/26/16 08:07	EPA 8260B	sap	
Surrogate: Fluorobenzene		97.9%	70-1	130	08/26/16 08:07	EPA 8260B	sap	

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Letterle & Associates Inc.	Project:	UNITED CLEA	RFIELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-12

**Date/Time Sampled:** 08/18/16 09:41

Laboratory Sample ID: 6H19121-08 (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	08/26/16 08:45	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 08:45	EPA 8260B	sap	
Benzene	<1.00		1.00	ug/l	08/26/16 08:45	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	08/26/16 08:45	EPA 8260B	sap	
Ethylbenzene	<1.00		1.00	ug/l	08/26/16 08:45	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	08/26/16 08:45	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	08/26/16 08:45	EPA 8260B	sap	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/26/16 08:45	EPA 8260B	sap	
Naphthalene	<1.00		1.00	ug/l	08/26/16 08:45	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene		95.7%	70-1	30	08/26/16 08:45	EPA 8260B	sap	
Surrogate: 1,2-Dichloroethane-d4		95.0%	70-1	30	08/26/16 08:45	EPA 8260B	sap	
Surrogate: Fluorobenzene		98.4 %	70-1	30	08/26/16 08:45	EPA 8260B	sap	

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Analyst

Note

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2022 Axemann Road Suit	te 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823		Collector:	CLIENT	09/01/16 12:49
Project Manager: Je	ed Hill	Number of Containers:	40	

## Client Sample ID: MW-14

Analyte

Date/Time Sampled: 08/17/16 10:42

Method

Analyzed

6H19121-09 (Water/Grab) Laboratory Sample ID: Date / Time

MDL

Result

Volatile Organic	Compounds by	y EPA Method 8260B
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Volatile Organic Compounds by EPA Method 8260B									
1,3,5-Trimethylbenzene	<1.00	1.00	ug/l	08/26/16 09:23	EPA 8260B	sap			
1,2,4-Trimethylbenzene	<1.00	1.00	ug/l	08/26/16 09:23	EPA 8260B	sap			
Benzene	<1.00	1.00	ug/l	08/26/16 09:23	EPA 8260B	sap			
Toluene	<1.00	1.00	ug/l	08/26/16 09:23	EPA 8260B	sap			
Ethylbenzene	<1.00	1.00	ug/l	08/26/16 09:23	EPA 8260B	sap			
Xylenes (total)	<2.00	2.00	ug/l	08/26/16 09:23	EPA 8260B	sap			
Isopropylbenzene	<1.00	1.00	ug/l	08/26/16 09:23	EPA 8260B	sap			
Methyl tert-butyl ether	2.51	1.00	ug/l	08/26/16 09:23	EPA 8260B	sap			
Naphthalene	<1.00	1.00	ug/l	08/26/16 09:23	EPA 8260B	sap			
Surrogate: 4-Bromofluorobenzene	94.9%	70-1	30	08/26/16 09:23	EPA 8260B	sap			
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-1	30	08/26/16 09:23	EPA 8260B	sap			
Surrogate: Fluorobenzene	97.1 %	70-1	30	08/26/16 09:23	EPA 8260B	sap			

RL

Units

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Letterle & Associates Inc.	Project:	UNITED CLEARFIE	LD
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-15

Date/Time Sampled: 08/18/16 09:18

6H19121-10 (Water/Grab) Laboratory Sample ID: Date / Time MDL RL Units Analyzed Method Analyst Note Result Analyte Volatile Organic Compounds by EPA Method 8260B 1,3,5-Trimethylbenzene <1.00 1.00 ug/l 08/26/16 10:01 EPA 8260B sap 1,2,4-Trimethylbenzene <1.00 1.00 08/26/16 10:01 EPA 8260B ug/l sap 08/26/16 10:01 EPA 8260B Benzene < 1.001.00 ug/l sap Toluene <1.00 1.00 ug/l 08/26/16 10:01 EPA 8260B sap Ethylbenzene <1.00 1.00 08/26/16 10:01 EPA 8260B ug/l sap Xylenes (total) <2.00 2.00 ug/l 08/26/16 10:01 EPA 8260B sap Isopropylbenzene <1.00 1.0008/26/16 10:01 EPA 8260B ug/l sap Methyl tert-butyl ether 1.23 1.00 08/26/16 10:01 EPA 8260B ug/l sap Naphthalene <1.00 1.00 08/26/16 10:01 ug/l EPA 8260B sap Surrogate: 4-Bromofluorobenzene 96.1% 70-130 08/26/16 10:01 EPA 8260B sap

70-130

70-130

95.1%

97.8%

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Surrogate: 1,2-Dichloroethane-d4

Surrogate: Fluorobenzene

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08/26/16 10:01

08/26/16 10:01

EPA 8260B

EPA 8260B

sap

sap


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Letterle & Associates Inc.	Project:	Project: UNITED CLEAI	
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

#### Client Sample ID: MW-21

Date/Time Sampled: 08/18/16 11:03

6H19121-11 (Water/Grab) Laboratory Sample ID: Date / Time MDL RL Units Analyzed Method Analyst Note Result Analyte Volatile Organic Compounds by EPA Method 8260B 1,3,5-Trimethylbenzene <1.00 1.00 ug/l 08/26/16 10:39 EPA 8260B sap 1,2,4-Trimethylbenzene <1.00 1.00 08/26/16 10:39 EPA 8260B ug/l sap 08/26/16 10:39 EPA 8260B Benzene < 1.001.00 ug/l sap Toluene <1.00 1.00 ug/l 08/26/16 10:39 EPA 8260B sap Ethylbenzene <1.00 1.00 08/26/16 10:39 EPA 8260B ug/l sap Xylenes (total) <2.00 2.00 ug/l 08/26/16 10:39 EPA 8260B sap Isopropylbenzene <1.00 1.0008/26/16 10:39 EPA 8260B ug/l sap Methyl tert-butyl ether 2.53 1.00 08/26/16 10:39 EPA 8260B ug/l sap Naphthalene <1.00 1.00 08/26/16 10:39 ug/l EPA 8260B sap Surrogate: 4-Bromofluorobenzene 94.4% 70-130 08/26/16 10:39 EPA 8260B sap 08/26/16 10:39 EPA 8260B Surrogate: 1,2-Dichloroethane-d4 95.0% 70-130 sap Surrogate: Fluorobenzene 98.0% 70-130 08/26/16 10:39 EPA 8260B sap

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Letterle & Associates Inc.	Project:	UNITED CLEARFIE	ELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-28

Date/Time Sampled: 08/17/16 12:04

6H19121-12 (Water/Grab) Laboratory Sample ID: Date / Time MDL RL Units Analyzed Method Analyst Result Analyte Volatile Organic Compounds by EPA Method 8260B 1,3,5-Trimethylbenzene 9.00 5.00 ug/l 08/24/16 06:40 EPA 8260B bag 23.7 5.00 08/24/16 06:40 EPA 8260B 1,2,4-Trimethylbenzene ug/l bag 08/24/16 06:40 EPA 8260B Benzene 254 5.00 ug/l bag Toluene 634 10.0 ug/l 08/25/16 05:07 EPA 8260B bag 49.9 5.00 08/24/16 06:40 EPA 8260B Ethylbenzene ug/l bag 08/24/16 06:40 **Xylenes** (total) 469 10.0 ug/l EPA 8260B bag

5.00

5.00

5.00

70-130

70-130

70-130

ug/l

ug/l

ug/l

< 5.00

< 5.00

7.45

98.8%

100 %

94.7%

Fairway Laboratories, Inc.

Isopropylbenzene

Naphthalene

Methyl tert-butyl ether

Surrogate: 4-Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Fluorobenzene

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08/24/16 06:40

08/24/16 06:40

08/24/16 06:40

08/24/16 06:40

08/24/16 06:40

08/24/16 06:40

EPA 8260B

EPA 8260B

EPA 8260B

EPA 8260B

EPA 8260B

EPA 8260B

bag

bag

bag

bag

bag

bag

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Letterle & Associates Inc.	Project:	UNITED CLEARFIE	ELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-29

Date/Time Sampled: 08/18/16 10:42

6H19121-13 (Water/Grab) Laboratory Sample ID: Date / Time MDL RL Units Analyzed Method Analyst Result Analyte Volatile Organic Compounds by EPA Method 8260B 1,3,5-Trimethylbenzene <1.00 1.00 ug/l 08/26/16 11:17 EPA 8260B sap 1,2,4-Trimethylbenzene <1.00 1.00 08/26/16 11:17 EPA 8260B ug/l sap 08/26/16 11:17 EPA 8260B Benzene < 1.001.00 ug/l sap Toluene <1.00 1.00 ug/l 08/26/16 11:17 EPA 8260B sap Ethylbenzene <1.00 1.00 08/26/16 11:17 EPA 8260B ug/l sap 08/26/16 11:17 Xylenes (total) <2.00 2.00 ug/l EPA 8260B sap Isopropylbenzene <1.00 1.0008/26/16 11:17 EPA 8260B ug/l sap Methyl tert-butyl ether 5.23 1.00 08/26/16 11:17 EPA 8260B ug/l sap Naphthalene <1.00 1.00 08/26/16 11:17 ug/l EPA 8260B sap

95.7%

95.3%

97.9%

70-130

70-130

70-130

Fairway Laboratories, Inc.

Surrogate: 4-Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Fluorobenzene

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08/26/16 11:17

08/26/16 11:17

08/26/16 11:17

EPA 8260B

EPA 8260B

EPA 8260B

sap

sap

sap

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Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	ſ
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

# Client Sample ID: MW-30

Date/Time Sampled: 08/18/16 10:00

Laboratory Sample ID: 6H19121-14 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
Volatile Organic Compounds by EPA	Method 8260B							
1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 11:55	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 11:55	EPA 8260B	sap	
Benzene	<1.00		1.00	ug/l	08/26/16 11:55	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	08/26/16 11:55	EPA 8260B	sap	
Ethylbenzene	<1.00		1.00	ug/l	08/26/16 11:55	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	08/26/16 11:55	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	08/26/16 11:55	EPA 8260B	sap	
Methyl tert-butyl ether	5.98		1.00	ug/l	08/26/16 11:55	EPA 8260B	sap	
Naphthalene	<1.00		1.00	ug/l	08/26/16 11:55	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene	ç	06.2 %	70-1	30	08/26/16 11:55	EPA 8260B	sap	
Surrogate: 1,2-Dichloroethane-d4	9	94.9%	70-1	30	08/26/16 11:55	EPA 8260B	sap	
Surrogate: Fluorobenzene	9	07.6%	70-1	30	08/26/16 11:55	EPA 8260B	sap	

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Letterle & Associates Inc.	Project:	UNITED CLEAR	FIELD
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-31

Date/Time Sampled: 08/17/16 12:22

6H19121-15 (Water/Grab) Laboratory Sample ID: Date / Time MDL RL Units Analyzed Method Analyst Result Analyte Volatile Organic Compounds by EPA Method 8260B 1,3,5-Trimethylbenzene <50.0 50.0 ug/l 08/23/16 13:28 EPA 8260B 1,2,4-Trimethylbenzene 64.0 50.0 08/23/16 13:28 EPA 8260B ug/l 08/23/16 13:28 EPA 8260B Benzene 154 50.0 ug/l

50.0

50.0

100

50.0

50.0

50.0

70-130

70-130

70-130

ug/l

ug/l

ug/l

ug/l

ug/l

ug/l

666

598

<50.0

<50.0

<50.0

<50.0

98.3%

96.4%

97.8%

Fairway Laboratories, Inc.

Toluene

Ethylbenzene

**Xylenes** (total)

Naphthalene

Isopropylbenzene

Methyl tert-butyl ether

Surrogate: 4-Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Fluorobenzene

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08/23/16 13:28

08/23/16 13:28

08/23/16 13:28

08/23/16 13:28

08/23/16 13:28

08/23/16 13:28

08/23/16 13:28

08/23/16 13:28

08/23/16 13:28

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Note

mtc

EPA 8260B



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Letterle & Associates Inc.	etterle & Associates Inc.		UNITED CLEARFIELD	
2022 Axemann Road Suit	te 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823		Collector:	CLIENT	09/01/16 12:49
Project Manager: Je	ed Hill	Number of Containers:	40	

# Client Sample ID: MW-32

Date/Time Sampled: 08/17/16 13:08

Laboratory Sample ID: 6H19121-16 (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	08/26/16 12:33	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 12:33	EPA 8260B	sap	
Benzene	<1.00		1.00	ug/l	08/26/16 12:33	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	08/26/16 12:33	EPA 8260B	sap	
Ethylbenzene	<1.00		1.00	ug/l	08/26/16 12:33	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	08/26/16 12:33	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	08/26/16 12:33	EPA 8260B	sap	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/26/16 12:33	EPA 8260B	sap	
Naphthalene	<1.00		1.00	ug/l	08/26/16 12:33	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene		95.6%	70-1	30	08/26/16 12:33	EPA 8260B	sap	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-1	30	08/26/16 12:33	EPA 8260B	sap	
Surrogate: Fluorobenzene		98.5%	70-1	30	08/26/16 12:33	EPA 8260B	sap	

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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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Letterle & Associates Inc.	Project:	UNITED CLEAD	RFIELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-33

Date/Time Sampled: 08/17/16 12:53

6H19121-17 (Water/Grab) Laboratory Sample ID: Date / Time MDL RL Units Analyzed Method Analyst Note Result Analyte Volatile Organic Compounds by EPA Method 8260B 1,3,5-Trimethylbenzene <1.00 1.00 ug/l 08/26/16 13:11 EPA 8260B sap 1,2,4-Trimethylbenzene <1.00 1.00 08/26/16 13:11 EPA 8260B ug/l sap EPA 8260B Benzene < 1.001.00 ug/l 08/26/16 13:11 sap Toluene <1.00 1.00 ug/l 08/26/16 13:11 EPA 8260B sap Ethylbenzene <1.00 1.00 08/26/16 13:11 EPA 8260B ug/l sap Xylenes (total) <2.00 2.00 ug/l 08/26/16 13:11 EPA 8260B sap Isopropylbenzene <1.00 1.0008/26/16 13:11 EPA 8260B ug/l sap Methyl tert-butyl ether <1.00 1.00 08/26/16 13:11 EPA 8260B ug/l sap Naphthalene <1.00 1.00 08/26/16 13:11 ug/l EPA 8260B sap Surrogate: 4-Bromofluorobenzene 96.5% 70-130 08/26/16 13:11 EPA 8260B sap

97.5%

97.7%

70-130

70-130

Fairway Laboratories, Inc.

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Fluorobenzene

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08/26/16 13:11

08/26/16 13:11

EPA 8260B

EPA 8260B

sap

sap



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State Certifications: MD 275, WV 364

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Letterle & Associates Inc.	Project:	UNITED CLEAR	FIELD
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-34

Date/Time Sampled: 08/17/16 13:27

Laboratory Sample ID: 6H19121-18 (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	08/26/16 13:49	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 13:49	EPA 8260B	sap	
Benzene	<1.00		1.00	ug/l	08/26/16 13:49	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	08/26/16 13:49	EPA 8260B	sap	
Ethylbenzene	<1.00		1.00	ug/l	08/26/16 13:49	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	08/26/16 13:49	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	08/26/16 13:49	EPA 8260B	sap	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/26/16 13:49	EPA 8260B	sap	
Naphthalene	<1.00		1.00	ug/l	08/26/16 13:49	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene		96.0 %	70-1	30	08/26/16 13:49	EPA 8260B	sap	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-1	30	08/26/16 13:49	EPA 8260B	sap	
Surrogate: Fluorobenzene		97.4 %	70-1	30	08/26/16 13:49	EPA 8260B	sap	

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Letterle & Associates Inc.	Project:	UNITED CLEAD	RFIELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

## Client Sample ID: MW-35

Date/Time Sampled: 08/17/16 11:48

Laboratory Sample ID: 6H19121-19 (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	08/26/16 15:18	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 15:18	EPA 8260B	sap	
Benzene	<1.00		1.00	ug/l	08/26/16 15:18	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	08/26/16 15:18	EPA 8260B	sap	
Ethylbenzene	<1.00		1.00	ug/l	08/26/16 15:18	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	08/26/16 15:18	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	08/26/16 15:18	EPA 8260B	sap	
Methyl tert-butyl ether	6.50		1.00	ug/l	08/26/16 15:18	EPA 8260B	sap	
Naphthalene	<1.00		1.00	ug/l	08/26/16 15:18	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene		96.0%	70-1	130	08/26/16 15:18	EPA 8260B	sap	
Surrogate: 1,2-Dichloroethane-d4		95.7%	70-1	130	08/26/16 15:18	EPA 8260B	sap	
Surrogate: Fluorobenzene		96.6%	70-1	130	08/26/16 15:18	EPA 8260B	sap	

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Letterle & Associates Inc.	Project:	UNITED CLEAR	RFIELD
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

#### Client Sample ID: MW-36

Date/Time Sampled: 08/17/16 11:18

Laboratory Sample ID: 6H19121-20 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
Volatile Organic Compounds by EPA	A Method 8260B							
1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 07:48	EPA 8260B	sap	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/26/16 07:48	EPA 8260B	sap	
Benzene	<1.00		1.00	ug/l	08/26/16 07:48	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	08/26/16 07:48	EPA 8260B	sap	
Ethylbenzene	<1.00		1.00	ug/l	08/26/16 07:48	EPA 8260B	sap	
Xylenes (total)	<2.00		2.00	ug/l	08/26/16 07:48	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	08/26/16 07:48	EPA 8260B	sap	
Methyl tert-butyl ether	10.0		1.00	ug/l	08/26/16 07:48	EPA 8260B	sap	
Naphthalene	<1.00		1.00	ug/l	08/26/16 07:48	EPA 8260B	sap	
Surrogate: 4-Bromofluorobenzene		95.1%	70-1	30	08/26/16 07:48	EPA 8260B	sap	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-1	30	08/26/16 07:48	EPA 8260B	sap	
Surrogate: Fluorobenzene		97.6%	70-1	30	08/26/16 07:48	EPA 8260B	sap	

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Letterle & Associates	Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road S	Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823		Collector:	CLIENT	09/01/16 12:49
Project Manager:	Jed Hill	Number of Containers:	40	

#### 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

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Letterle & Associates Inc.	Project:	UNITED CLEA	RFIELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	09/01/16 12:49
Project Manager: Jed Hill	Number of Containers:	40	

#### **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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By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.

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This is a date sensitive document and may not be current after August 15, 2016.

From: Shirley Scheidell sscheidell@letterleassociates.com; Sent: Monday, September 26, 2016 1:29 PM To: ICF-USTIF ICF-USTIF@fms.icfwebservices.com; CC: Hawk, Gerald Gerald.Hawk@fms.icfwebservices.com; Subject: 2015-0004-August 2016 DMR\_GH Attachments: United Clearfield - August 2016 DMR.pdf

Monthly Discharge Monitoring Report - August 2016 V Kwik Fill M-90 Clearfield - Claim #2015-0004(I)

If you have any questions please contact Jed Hill @ jhill@letterleassociates.com

Shirley Scheidell

Letterle & Associates, Inc. 2022 Axemann Road, Suite 201 Bellefonte, PA 16823 (814) 355-2241

# Letterle & Associates

2022 Axemann Road, Suite 201, Bellefonte, PA 16823 P: 814,355.2241 F: 814,355.2410 www.letterleassociates.com

September 26, 2016

Mr. Kevin A. Shifter Clearfield Municipal Authority 107 East Market Street Clearfield, PA 16830

# Re: Monthly Discharge Monitoring Report – August 2016 United Refining Company of Pennsylvania - Kwik Fill M-90 1322 South Second Street Lawrence Township, Clearfield County, Clearfield, Pennsylvania PADEP Facility ID #17-14821/PAUSTIF Claim #2015-0004(I)

Dear Mr. Shifter:

Letterle & Associates, Inc. (Letterle) has prepared this Monthly Discharge Monitoring Report in accordance with Clearfield Municipal Authority's effluent limitations, self-monitoring, and reporting requirements as outlined in their discharge permit issued for the above-referenced facility.

The groundwater remediation system was restarted on May 6, 2015. Groundwater remediation discharge (Effluent) samples were collected on August 10, 2016 and August 24, 2016, respectively. Analytical results from the August 2016 monitoring period indicate the constituents-of-interest analyzed were reported non-detect, which is in compliance with the effluent limitations outlined in the discharge permit.

Please contact me at (814) 355-2241 if you have any questions or comments.

Sincerely,

Jed Hill Project Manager

Attachment: Treatment System Groundwater Analytical Laboratory Reports

 cc: Mr. Scott Wonsettler, P.G. - United Refining Company of Pennsylvania Mr. Gerald Hawk, P.G. - ICF International (via email)
 L:\Operations\Projects\Project Files\Bellefonte\United Refining\M-90 Clearfield #277\Reports\DMRs\DMR 08-16.doc



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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.	Project:	UNITED CLEA	RFIELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	08/19/16 10:58
Project Manager: Jed Hill	Number of Containers:	7	

#### ANALYTICAL REPORT FOR SAMPLES

Sample LD	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
INFLUENT	6H10140-01	Water	Grab	08/10/16 10:30	08/10/16 15:25
MIDFLUENT	6Н10140-02	Water	Grab	08/10/16 10:35	08/10/16 15:25
EFFLUENT	6H10140-03	Water	Grab	08/10/16 10:40	08/10/16 15:25

Fairway Laboratories, Inc.

Reviewed and Submitted by:

MAT

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.



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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.		Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite	201	Project Number:	[none]	Reported:
Bellefonte PA, 16823		Collector:	CLIENT	08/19/16 10:58
Project Manager: Jed	Hill	Number of Containers:	7	

#### Client Sample ID: INFLUENT

Date/Time Sampled: 08/10/16 10:30

6H10140-01 (Water/Grab) Laboratory Sample ID:

					Date / Time			
Analyte	Result 1	MDL	RL	Units	Analyzed	Method	* Analyst	Note
Volatile Organic Compounds by EPA	Method 8260B							
1,3,5-Trimethylbenzene	<1,00		1.00	ug/l	08/11/16 21:36	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/11/16 21:36	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/i	08/11/16 21:36	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	08/11/16 21:36	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	08/11/16 21:36	EPA 8260B	mte	
Xylenes (total)	<2.00		2.00	ug/l	08/11/16 21:36	EPA 8260B	mtc	
lsopropylbenzene	<1.00		1.00	ug/l	08/11/16 21:36	EPA 8260B	mtc	
Methyl tert-butyl ether	8.07		1.00	ug/l	08/11/16 21:36	EPA 8260B	mte	2c
Naphthalene	<1.00		1.00	ug/l	08/11/16 21:36	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98.	6%	70-1	30	08/11/16 21:36	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	11	4%	70-1	30	08/11/16 21:36	EPA 8260B	mte	
Surrogate: Fluorobenzene	11	4 %	70-1	30	08/11/16 21:36	EPA 8260B	mte	

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Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	08/19/16 10:58
Project Manager: Jcd Hill	Number of Containers:	7	

#### Client Sample ID: MIDFLUENT

Date/Time Sampled: 08/10/16 10:35

Laboratory Sample ID: 6H10140-02 (Water/Grab)

					Date / Time			
Analyte	Result M	DL	RL	Units	Analyzed	Method	* Analyst	Note
Volatile Organic Compounds by EPA	Method 8260B							
1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	08/11/16 22:02	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1,00	ug/l	08/11/16 22:02	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	08/11/16 22:02	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	08/11/16 22:02	EPA 8260B	mtc	
Ethylbenzene	<1.00	:	1.00	ug/l	08/11/16 22:02	EPA 8260B	mtc	
Xylenes (total)	<2.00	2	2.00	ug/l	08/11/16 22:02	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	08/11/16 22:02	EPA 8260B	mtc	
Methyl tert-butyl ether	7.45	L	1.00	ug/l	08/11/16 22:02	EPA 8260B	mtc	2e
Naphthalene	<1.00	1	1.00	ug/l	08/11/16 22:02	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98.2	%	70-1	30	08/11/16 22:02	EPA 8260B	mte	
Surrogate: 1,2-Dichloroethane-d4	114	%	70-1	30	08/11/16 22:02	EPA 8260B	mtc	
Surrogate: Fluorobenzene	113	%	70-1	30	08/11/16 22:02	EPA 8260B	mtc	

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Letterle & Associates Inc.	Project:	UNITED CLEARE	IELD
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	08/19/16 10:58
Project Manager: Jed Hill	Number of Containers:	7	

#### Client Sample ID: EFFLUENT

Date/Time Sampled: 08/10/16 10:40

Laboratory Sample ID: 6H10140-03 (Water/Grab)

Analyte	Rcsult	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	08/11/16 22:28	EPA 8260B	mte	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	08/11/16 22:28	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	08/11/16 22:28	EPA 8260B	mte	
Toluene	<1.00		1.00	ug/l	08/11/16 22:28	EPA 8260B	mte	
Ethylbenzene	<1,00		1.00	ug/l	08/11/16 22:28	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	08/11/16 22:28	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	08/11/16 22:28	EPA 8260B	mte	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/11/16 22:28	EPA 8260B	mte	2e
Naphthalene	<1.00		1.00	ug/l	08/11/16 22:28	EPA 8260B	mte	
Surrogate: 4-Bromofluorobenzene		99.5 %	70	130	08/11/16 22:28	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4		115 %	70	130	08/11/16 22:28	EPA 8260B	mtc	
Surrogate: Fluorobenzene		115 %	70	130	08/11/16 22:28	EPA 8260B	mtc	
Conventional Chemistry Parameters	by SM/EPA Me	thods						
Oil & Grease	<5.00		5.00	mg/l	08/16/16 11:50	EPA 1664A	SR	

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Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	)
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	08/19/16 10:58
Project Manager: Jed Hill	Number of Containers:	7	

#### Notes

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CCV was outside the QC range for the noted analyte. 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: pII, 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

Letterle & Associates	Inc.	Project:	UNITED CLEA	RFIELD
2022 Axemann Road	Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823		Collector:	CLIENT	08/19/16 10:58
Project Manager:	Jed Hill	Number of Containers:	7	

#### 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 Laboratorics 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 subpoent 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.

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.

Relinquished by: Date	by:	Red Angested by: Delance the life	a strange	Sampled by:						LLA CON	flit ant	m allvert	Influent	Sample Description/Location	TAT: Normal A Rush Rush TAT subject to pre-approval and surcharge. Date Required:	Project Name: Un Fed Clearheld QuotePO #:	*	Contact: Jed Hill	2022 Axemai	Client Name: Letterle & Associates	CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS Please print. See back of COC for instructions/terms and conditions.
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By relinquishing my sample to Fairway Laboratorics, Inc., I hereby agree to the terms and conditions printed on the reverse. White Original - FLI File Canary - FLI Copy Pink - Customer Receipt Copy

Page 7 of 8

Provided Information () No Response; Proceed and qualified () Client Contact: Date:										Comments:	*
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Page 8 of 8

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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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Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT 09	9/06/16 15:59
Project Manager: Jed Hill	Number of Containers:	3	

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
EFFLUENT	6H25060-01	Water	Grab	08/24/16 11:45	08/25/16 13:00

Client Sample ID: EFFLUENT

Date/Time Sampled: 08/24/16 11:45

Laboratory Sample ID: 6H25060-01 (Water/Grab)

	<b>B</b> 1:	MDI	דת	¥7_%	Date / Time	N ( - 4) - J	*	N[
Analyte	Result	MDL	RL	Units	Analyzed	Method	Analyst	Note
Volatile Organic Compounds by EPA	Method 8260B							
Benzene	<1.00		1.00	ug/l	08/29/16 20:51	EPA 8260B	sap	
Toluene	<1.00		1.00	ug/l	08/29/16 20:51	EPA 8260B	sap	
Ethylbenzene	<1.00		1.00	ug/l	08/29/16 20:51	EPA 8260B	sap	
Xylenes (totai)	<2.00		2.00	ug/l	08/29/16 20:51	EPA 8260B	sap	
Isopropylbenzene	<1.00		1.00	ug/l	08/29/16 20:51	EPA 8260B	sap	
Methyl tert-butyl ether	<1.00		1.00	ug/l	08/29/16 20:51	EPA 8260B	sap	
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Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-3	30	08/29/16 20:51	EPA 8260B	sap	
Surrogate: Fluorobenzene		97.7 %	70-1	30	08/29/16 20:51	EPA 8260B	sap	
Conventional Chemistry Parameters	by SM/EPA Me	thods						
Oil & Grease	<5.00		5.00	mg/l	08/29/16 16:07	EPA 1664A	SR	

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Reviewed and Submitted by:

mot

Michael P. Tyler Laboratory Director



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



State Certifications: MD 275, WV 364

Letterle & Associates	s Inc.	Project:	UNITED CLEAF	RFIELD
2022 Axemann Road	Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823		Collector:	CLIENT	09/06/16 15:59
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Letterle & Associates I	nc,	Project:	UNITED CLEA	RFIELD
2022 Axemann Road S	uite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823		Collector:	CLIENT	09/06/16 15:59
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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 subpoend 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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Please print. See back of COC for instructions/terms Address: Rush TAT subject to pre-approval and surcharge TAT: Normal 🕅 Rush 🖵 Quote/PO #: Project Name: United Cleefrald Fax #: Phone #: Contact: Client Name: Date Required: Sampled by: Sample Description/Location **REQUEST FOR ANALYSIS** Relinquished by: Relinquished by: Relinquished by: conditions. CHAIN OF CUSTODY/ By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse. Hroch+ 814-355-2241 <u> letterle & Associates</u> Bellefonte, PA 16823 2022 Axenann Road 814-355-2410 60 H. II  $\infty$ B Date 22 Date Daje 6 GRAB × Composite J. Time Time 300 Sample Temp: Received on ice? Start Date Composite Start Received by: Olanay Received by: Received by: Received by: Start Time FAIRWAY LABORATORIES × <u>k-5</u>4 End Date Composite GRAB z End ģ NAN A <u>|</u>:45 End Time PWSID #\_ Reportable to Solid PADEP? Matrix Yes 🛛 Environmental Laboratory Ø X Water 25/16 Date Date そんと Other Date Date # of Containers w Time Buc 1305 Time Time Time 0001 1998 Unleaded Gas × White Original - FLI File l Grosse  ${}^{\times}$ 6.1 **Analyses Requested** Fax: Phone: (814) 946-4306 Fax: (814) 946-8791 Altoona, PA 16602 P.O. Box 1925 2019 9th Ave. Canary - FLI Copy Remarks Pink - Customer Receipt Copy Client Page # \_\_\_\_ Work Order # Attach # FLI Page # Tracking # Bottle Type/Comments LAB USE ONLY ) G Ś |---2f, |\_\_\_

Pag

Page 4 of 5

* Comments:	Client Contact:Date:	Wrong Container     ()     Prov       Missing Information:     ()     Date:	* DEVIATION PRESENT:       CLIENT CALLED:       CLIENT RESPONSE:         ③ No Ice       ()       YES ()       Proceed with analysis; qualify data (         ③ Not at Proner Temperature       ()       By Whom:       Will Resample					NaOH (Head space?)	Poly Poly Poly Amber Amber Poly VOCS Other Properly Bacti	COC # Number and Type of BOTTLES Comments	COC/Labels on bottles agree? $\frac{1}{2} \square^*$ Correct containers for all the analysis requested? Y $\square^*$ Matrix: Weber	Custody Seals? / Intact?	* Sample Tempe		Date/Time of this check: 8/1/1 1335 Client: 6/1/1 Lab # (1H2500)	1335 Client: Cettoric Page C
	Date:	() and qualified ()	; qualify data ()							Comments			down process? 🔲 * le for WV compliance)*	JSUD UPUS		

Page 5 of 5

# Keller, Tracey

From:	Tracey Kim <tkim@letterleassociates.com></tkim@letterleassociates.com>
Sent:	Wednesday, September 14, 2016 1:56 PM
То:	Keller, Tracey
Cc:	Hawk, Gerald
Subject:	RE: USTIF Claim 2015-0004(I), Kwik Fill M 90
Attachments:	United Clearfield - May 2016 DMR.PDF; United Clearfield - June 2016 DMR.PDF

Hi Tracey, Attached are the DMR's you requested. Thank you. Tracey

From: Keller, Tracey [mailto:Tracey.Keller@fms.icfwebservices.com] Sent: Wednesday, September 14, 2016 1:06 PM To: Tracey Kim <<u>tkim@letterleassociates.com</u>> Cc: Hawk, Gerald <<u>Gerald.Hawk@fms.icfwebservices.com</u>> Subject: USTIF Claim 2015-0004(I), Kwik Fill M 90

Hello Tracey. I am currently working invoices 1606479 and 1607479 for the above mentioned claim. Please note that there are tasks for May and June 2016 DMR, but we haven't received any DMR's for this claim. Please forward the DMR's to my attention as not to hold the invoices up.

If you have any questions, feel free to contact Jerry or I.

Thank you in advance for your time and cooperation.

Tracey R. Keller, Administrative Assistant ICF International 4000 Vine Street Middletown, PA 17057 1-800-888-7843 717-948-1767 Fax **Tracey.Keller@fms.icfwebservices.com** icfi.com

NOTICE: Please use my New Email for all PaUSTIF related correspondence

Tracey.Keller@fms.icfwebservices.com

# Letterle & Associates

2022 Axemann Road, Suite 201, Bellefonte, PA 16823 P: 814.355.2241 F: 814.355.2410 www.letterleassociates.com

July 27, 2016

Mr. Kevin A. Shifter Clearfield Municipal Authority 107 East Market Street Clearfield, PA 16830

# Re: Monthly Discharge Monitoring Report – June 2016 United Refining Company of Pennsylvania - Kwik Fill M-90 1322 South Second Street Lawrence Township, Clearfield County, Clearfield, Pennsylvania PADEP Facility ID #17-14821/PAUSTIF Claim #2015-0004(I)

Dear Mr. Shifter:

Letterle & Associates, Inc. (Letterle) has prepared this Monthly Discharge Monitoring Report in accordance with Clearfield Municipal Authority's effluent limitations, self-monitoring, and reporting requirements as outlined in their discharge permit issued for the above-referenced facility.

The groundwater remediation system was restarted on May 6, 2015. Groundwater remediation discharge (Effluent) samples were collected on June 6, 2016 and June 21, 2016, respectively. Analytical results from the June 2016 monitoring period indicate the constituents-of-interest analyzed were reported non-detect, which is in compliance with the effluent limitations outlined in the discharge permit.

Please contact me at (814) 355-2241 if you have any questions or comments.

Sincerely.

Jed Hill Project Manager

Attachment: Treatment System Groundwater Analytical Laboratory Reports

cc: Mr. Scott Wonsettler, P.G. - United Refining Company of Pennsylvania L:\Operations\Projects\Project Files\Bellefonte\United Refining\M-90 Clearfield #277\Reports\DMRs\DMR 06-16.doc



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



State Certifications: MD 275, WV 364

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Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	06/17/16 10:19
Project Manager: Jed Hill	Number of Containers:	7	

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
INFLUENT	6F07058-01	Water	Grab	06/06/16 11:45	06/07/16 14:25
MIDFLUENT	6F07058-02	Water	Grab	06/06/16 11:50	06/07/16 14:25
EFFLUENT	6F07058-03	Water	Grab	06/06/16 11:55	06/07/16 14:25

Fairway Laboratorics, Inc.

Reviewed and Submitted by:

mont

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.



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



State Certifications: MD 275, WV 364

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Project: UNITED CLEARFIELD Letterle & Associates Inc. Project Number: **Reported:** 2022 Axemann Road Suite 201 [none] CLIENT 06/17/16 10:19 Bellefonte PA, 16823 Collector: Project Manager: Number of Containers: 7 Jed Hill

#### Client Sample ID: INFLUENT

Date/Time Sampled: 06/06/16 11:45

6F07058-01 (Water/Grab) Laboratory Sample ID:

					Date / Time		*	
Analyte	Result	MDL	RL	Units	Analyzed	Method	Analyst	Note
Volatile Organic Compounds by EPA	Method 8260B							
1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	06/11/16 07:51	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	06/11/16 07:51	EPA 8260B	mte	
Benzene	<1.00		1.00	ug/l	06/11/16 07:51	EPA 8260B	mte	
Toluene	<1.00		1.00	ug/l	06/11/16 07:51	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	06/11/16 07:51	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	06/11/16 07:51	EPA 8260B	mtc	
lsopropylbenzene	<1.00		1.00	ug/l	06/11/16 07:51	EPA 8260B	mtc	
Methyl tert-butyl ether	3.20		1.00	ug/l	06/11/16 07:51	EPA 8260B	mte	
Naphthalene	<1.00		1.00	ug/l	06/11/16 07:51	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene		06 %	70-1	30	06/11/16 07:51	EPA 8260B	mte	
Surrogate: 1,2-Dichloroethane-d4	1	00 %	70-1	30	06/11/16 07:51	EPA 8260B	mte	
Surrogate: Fluorobenzene	10	01 %	70-1	130	06/11/16 07:51	EPA 8260B	mte	

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State Certifications: MD 275, WV 364

Letterle & Associates Inc.	Project:	UNITED CLEARFIEI	LD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	06/17/16 10:19
Project Manager: Jed Hill	Number of Containers:	7	

#### Client Sample ID: MIDFLUENT

Date/Time Sampled: 06/06/16 11:50

Laboratory Sample ID: 6F07058-02 (Water/Grab)

Analyte	Result N	ADL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
Volatile Organic Compounds by EP	A Method 8260B							
1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	06/10/16 08:25	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	06/10/16 08:25	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	06/10/16 08:25	EPA 8260B	mte	
Toluene	<1.00		1.00	ug/l	06/10/16 08:25	EPA 8260B	mte	
Ethylbenzene	<1.00		1.00	ug/l	06/10/16 08:25	EPA 8260B	mte	
Xylenes (total)	<2.00		2.00	ug/l	06/10/16 08:25	EPA 8260B	mte	
Isopropylbenzene	<1.00		1.00	ug/l	06/10/16 08:25	EPA 8260B	mtc	
Methyl tert-butyl ether	3.05		1.00	ug/l	06/10/16 08:25	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	06/10/16 08:25	EPA 8260B	mte	
Surrogate: 4-Bromofluorobenzene	10.	5%	70-1	30	06/10/16 08:25	EPA 8260B	mte	
Surrogate: 1,2-Dichloroethane-d4	102	2%	70-1	30	06/10/16 08:25	EPA 8260B	mte	
Surrogate: Fhiorobenzene	102	2%	70-1	30	06/10/16 08:25	EPA 8260B	mtc	

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State Certifications: MD 275, WV 364

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Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	06/17/16 10:19
Project Manager: Jed Hill	Number of Containers:	7	

#### Client Sample ID: EFFLUENT

Date/Time Sampled: 06/06/16 11:55

6F07058-03 (Water/Grab) Laboratory Sample ID:

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	06/10/16 09:03	EPA 8260B	mte	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	06/10/16 09:03	EPA 8260B	mte	
Benzene	<1.00		1.00	ug/l	06/10/16 09:03	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	06/10/16 09:03	EPA 8260B	mte	
Ethylbenzene	<1.00		1.00	ug/l	06/10/16 09:03	EPA 8260B	mtc	
Xylencs (total)	<2.00		2.00	ug/l	06/10/16 09:03	EPA 8260B	mtc	
lsopropylbenzene	<1.00		1,00	ug/l	06/10/16 09:03	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	06/10/16 09:03	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	06/10/16 09:03	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene		105 %	70	130	06/10/16 09:03	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-	130	06/10/16 09:03	EPA 8260B	mtc	
Surrogate: Fluorobenzene		102 %	70-	130	06/10/16 09:03	EPA 8260B	mte	
Conventional Chemistry Parameters	by SM/EPA Me	thods	_					
Oil & Grease	<5.00		5.00	mg/l	06/14/16 12:27	EPA 1664A	SR	

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State Certifications: MD 275, WV 364

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Letterle & Associates	Inc.	Project:	UNITED CLEAR	RFIELD
2022 Axemann Road	Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823		Collector:	CLIENT	06/17/16 10:19
Project Manager:	Jed Hill	Number of Containers:	7	

#### 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: pII, 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

Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	06/17/16 10:19
Project Manager: Jed Hill	Number of Containers:	7	

#### 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 LIABULITY 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 warrantics, 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 subpoent 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 snid highlightion.

Fairway Laboratories, Inc.

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Relinquished by: Control Date Tr Relinquished by: Date Tr	(Signature) Date Ti Relinquished by: Date Ti	۲. ک				2 Midfleent	Influent x	Sample Description/Location	TAT: Normal X       Rush Cl       ite         Rush TAT subject to pre-approval and surcharge.       AB       osite         Date Required:       /       /       GRAB	Fax #: 814-355-2410 Project Name: United Clear Grand Ouote/PO #:		Client Name: Letterle & Associates	CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS Please print. See back of COC for instructions/terms and conditions.
nquished by: Compare Time Received by: Date Time Received by: Date Time Received by: Date Time Received by: Date Time		Received by: / June Control Time			11:55 1 3 X	1 11:56 1 2 X	6-6		id ter f Containers		- Received on ice? Y N PADEP? Sample Temp: PWSID # &	- Reportable to	FAIRWAY LABORATORIES
		Remarks			X			Bottle Type/Comments	S!1 \$	FLI Page #	$\frac{1}{6} = \frac{1}{10} = \frac{1}{10}$ Attach # 1	Analyses Requested LAB USE ONLY	2019 9th Ave. P.O. Box 1925 Altoona, PA 16602 7 Phone: (814) 946-4306 Fax: (814) 946-8791

Page 7 of 8

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Page of			Date: December 4, 2015	Date: De	741			<b>Revision</b> 21			SOP FL10601-002	SOPI

Page 8 of 8



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State Certifications: MD 275, WV 364

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Letterle & Associates Inc.	Project:	UNITED CLEARI	FIELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	07/06/16 10:02
Project Manager: Jed Hill	Number of Containers:	3	

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
EFFLUENT	6F22056-01	Water	Grab	06/21/16 11:15	06/22/16 13:20

# Client Sample ID: EFFLUENT

Date/Time Sampled: 06/21/16 11:15

Laboratory Sample ID: 6F22056-01 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
•		•						
olatile Organic Compounds by EPA	Method 8260B							
Benzene	<1.00		1.00	ug/l	06/30/16 01:55	EPA 8260B	mte	
Toluene	<1.00		1.00	ug/l	06/30/16 01:55	EPA 8260B	mte	
Ethylbenzene	<1.00		1.00	ug/l	06/30/16 01:55	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	06/30/16 01:55	EPA 8260B	mte	
Isopropylbenzene	<1.00		1.00	ug/l	06/30/16 01:55	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	06/30/16 01:55	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	06/30/16 01:55	EPA 8260B	mte	2c
Surrogate: 4-Bromofluorobenzene		98.0 %	70-1	30	06/30/16 01:55	ЕРА 8260В	mte	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-1	30	06/30/16 01:55	EPA 8260B	mte	
Surrogate: Fluorobenzene		110 %	70-1	30	06/30/16 01:55	EPA 8260B	mte	
Conventional Chemistry Parameters	by SM/EPA Me	thods						
Oil & Grease	<5.00		5.00	mg/l	06/29/16 13:41	EPA 1664A	SR	

Fairway Laboratories, Inc.

Reviewed and Submitted by:

NAT

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.

Michael P. Tyler Laboratory Director



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



State Certifications: MD 275, WV 364

Letterle & Associates	Inc.	Project:	UNITED CLEA	ARFIELD
2022 Axemann Road	Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823		Collector:	CLIENT	07/06/16 10:02
Project Manager:	Jed Hill	Number of Containers:	3	

#### Notes

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CCV was outside the QC range for the noted analyte. 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.

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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Project:	UNITED CLEARFIELD	
Project Number:	[none]	Reported:
Collector:	CLIENT	07/06/16 10:02
Number of Containers:	3	
	Project Number: Collector:	Project Number: [none] Collector: CLIENT

#### Terms & Conditions

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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.

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Please print. See back of COC for instructions/terms ind conditions. Fax#: Address: Relinquished by: Rush TAT subject to pre-approval and surcharge TAT: Normal 🕅 Rush 🗆 Project Name: Phone #: Contact: Client Name: Sampled by: (Signature) Quote/PO #: Sample Description/Location Date Required: Relinquished by: REQUEST FOR ANALYSIS Relinquished by: CHAIN OF CUSTODY/ Effluent Jed Bellefonte, PA 16823 Letterle & Associates 814-355-2410 814-355-2241 2022 Axenann Road Mr. Mad Ø K 5 ΗΞΗ <u>(leerfield</u> le-parla Date Date Date γ GRAB 1320 Composite Time Time Time Sample Temp: Received on ice? Start Date Composite Start Received by: Received by: Received by: Received by: Start Time FAIRWAY LABORATORIES N/A 6-21 End Date Composite GRAB 1× Ľ End ģ <u>A</u> ک ۲: ا End Time PWSID #\_ 0 Reportable to Solid PADEP? Matrix Yes 🛛 Environmental Laboratory 6 Pate Water X MZZHU 669 Other Date Date # of Containers ω 13:20 lzy Time Time 9 0 Cillo Unleaded Ges 1998 X White Original - FLI File 4 Grange 0:i X **Analyses Requested** Phone: (814) 946-4306 Fax: (814) 946-8791 Altoona, PA 16602 P.O. Box 1925 2019 9th Ave. Canary - FLI Copy Remarks Client Page # \_\_\_\_\_ of \_\_ Pink - Customer Receipt Copy Work Order # Attach # Tracking # FLI Page # Bottle Type/Comments LAB USE ONLY , G )202(

Page 4 of 5

By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.

										* Comments:
CLIENT RESPONSE: Proceed with analysis; qualify data () Will Resample () Provided Information () No Response; Proceed and qualified () Client Contact: Date:	CLIENT RESPONSE: Proceed with analysis; Will Resample Provided Information No Response; Proceed Client Contact:		Date:	CLIENT CALLED: YES () By Whom:	CLIENT C/ Yi By Whom:	CLII By V		re	RESENT: Temperatu luer nation:	* DEVIATION PRESENT: © No Ice © Not at Proper Temperature © Wrong Container © Missing Information:
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	*	□ *	space?)	I RACII	Pres.	12304		HLSO4	Pres.	
	Properly Bacti Preserved	Other	VOCS	Poly NaOH	Amber Non-	Amber H3SO4	Poly	Poly	Poly	
Comments		ES	Number and Type of BOTTLES	hd Type (	mber ar	N				COC #
TEK	* Matrix: WATER	Correct containers for all the analysis requested? $\searrow$ [	e analysis :	or all the	tainers f	rrect con	Co ·		les agree?	COC/Labels on bottles agree?
			· ,	:	Ŋ		$\overline{+}$	_ Intact?	$\downarrow$	Custody Seals?
* or In cool down process? * * *(Not applicable for WV compliance)*	*	: 0.3 Acceptable?	o the Lab	ivered t	hen de	rature w	Гетре	Sample	- []	Received on ICE? $\sqrt{1}$ * Sample Temperature when delivered to the Lab: $\frac{0.3}{2}$
OSACIAN	Lab #		6	LAEWE	-	Client:	13:30		1eck: 622	Date/Time of this check: $\frac{ Q_2 }{ G_2 }$
)		Chain of Custody Receiving Document, Page	ody Rec	of Cust	Chain	-		ł	B	Receiver:
Page of AV	•	Date: December 4, 2015	Date: D	•			Revision 21			SOP FLI0601-002

This is a date sensitive document and may not be current after June 20, 2016.

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# Keller, Tracey

From:	Tracey Kim <tkim@letterleassociates.com></tkim@letterleassociates.com>
Sent:	Wednesday, September 14, 2016 1:56 PM
То:	Keller, Tracey
Cc:	Hawk, Gerald
Subject:	RE: USTIF Claim 2015-0004(I), Kwik Fill M 90
Attachments:	United Clearfield - May 2016 DMR.PDF; United Clearfield - June 2016 DMR.PDF

Hi Tracey, Attached are the DMR's you requested. Thank you. Tracey

From: Keller, Tracey [mailto:Tracey.Keller@fms.icfwebservices.com] Sent: Wednesday, September 14, 2016 1:06 PM To: Tracey Kim <<u>tkim@letterleassociates.com</u>> Cc: Hawk, Gerald <<u>Gerald.Hawk@fms.icfwebservices.com</u>> Subject: USTIF Claim 2015-0004(I), Kwik Fill M 90

Hello Tracey. I am currently working invoices 1606479 and 1607479 for the above mentioned claim. Please note that there are tasks for May and June 2016 DMR, but we haven't received any DMR's for this claim. Please forward the DMR's to my attention as not to hold the invoices up.

If you have any questions, feel free to contact Jerry or I.

Thank you in advance for your time and cooperation.

Tracey R. Keller, Administrative Assistant ICF International 4000 Vine Street Middletown, PA 17057 1-800-888-7843 717-948-1767 Fax **Tracey.Keller@fms.icfwebservices.com** icfi.com

NOTICE: Please use my New Email for all PaUSTIF related correspondence

Tracey.Keller@fms.icfwebservices.com

# Letterle & Associates

2022 Axemann Road, Suite 201, Bellefonte, PA 16823 P: 814.355.2241 F: 814.355.2410 www.letterleassociates.com

June 22, 2016

Mr. Kevin A. Shifter Clearfield Municipal Authority 107 East Market Street Clearfield, PA 16830

# Re: Monthly Discharge Monitoring Report – May 2016 United Refining Company of Pennsylvania - Kwik Fill M-90 1322 South Second Street Lawrence Township, Clearfield County, Clearfield, Pennsylvania PADEP Facility ID #17-14821/PAUSTIF Claim #2015-0004(I)

Dear Mr. Shifter:

Letterle & Associates, Inc. (Letterle) has prepared this Monthly Discharge Monitoring Report in accordance with Clearfield Municipal Authority's effluent limitations, self-monitoring, and reporting requirements as outlined in their discharge permit issued for the above-referenced facility.

The groundwater remediation system was restarted on May 6, 2015. Groundwater remediation discharge (Effluent) samples were collected on May 12, 2016 and May 25, 2016, respectively. Analytical results from the May 2016 monitoring period indicate the constituents-of-interest analyzed were reported non-detect, which is in compliance with the effluent limitations outlined in the discharge permit.

Please contact me at (814) 355-2241 if you have any questions or comments.

Sincerely,

Jed Hill Project Manager

Attachment: Treatment System Groundwater Analytical Laboratory Reports

cc: Mr. Scott Wonsettler, P.G. - United Refining Company of Pennsylvania L:\Operations\Projects\Project Files\Bellefonte\United Refining\M-90 Clearfield #277\Reports\DMRs\DMR 05-16.doc



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



State Certifications: MD 275, WV 364

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Letterle & Associates I	nc.	Project:	UNITED CLEAR	RFIELD
2022 Axemann Road S	uite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823		Collector:	CLIENT	05/25/16 10:24
Project Manager:	Jed I lill	Number of Containers:	7	

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
INFLUENT	6E13101-01	Water	Grab	05/12/16 11:50	05/13/16 14:00
MIDFLUENT	6E13101-02	Water	Grab	05/12/16 11:55	05/13/16 14:00
EFFLUENT	6E13101-03	Water	Grab	05/12/16 12:00	05/13/16 14:00

Fairway Laboratories, Inc.

Reviewed and Submitted by:

mat

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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Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 201	Project Number:	[nonc]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	05/25/16 10:24
Project Manager: Jed Hill	Number of Containers:	7	

# Client Sample ID: INFLUENT

Date/Time Sampled: 05/12/16 11:50

# Laboratory Sample ID: 6E13101-01 (Water/Grab)

					Data (Thurs			
Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
	14 (1 1 00 (AD							
Volatile Organic Compounds by EPA	Method 8260B							
1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	05/18/16 21:28	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	05/18/16 21:28	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	05/18/16 21:28	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	05/18/16 21:28	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	05/18/16 21:28	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	05/18/16 21:28	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	05/18/16 21:28	EPA 8260B	mtc	
Methyl tert-butyl ether	3.77		1.00	ug/l	05/18/16 21:28	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	05/18/16 21:28	EPA 8260B	mte	
Surrogate: 4-Bromofluorobenzene		103 %	70-	130	05/18/16 21:28	EPA 8260B	mte	
Surrogate: 1,2-Dichloroethane-d4		103 %	70	130	05/18/16 21:28	EPA 8260B	mtc	
Surrogate: Fhuorobenzene		105 %	70	130	05/18/16 21:28	EPA 8260B	mte	

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Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	05/25/16 10:24
Project Manager: Jed Hill	Number of Containers:	7	

## Client Sample ID: MIDFLUENT

Date/Time Sampled: 05/12/16 11:55

Laboratory Sample ID: 6E13101-02 (Water/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
L								
Volatile Organic Compounds by EPA	Method 8260B							
1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	05/18/16 22:05	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	05/18/16 22:05	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	05/18/16 22:05	EPA 8260B	mte	
Toluene	<1.00		1.00	ug/l	05/18/16 22:05	EPA 8260B	mte	
Ethylbenzene	<1.00		1.00	ug/l	05/18/16 22:05	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	05/18/16 22:05	EPA 8260B	mte	
Isopropylbenzene	<1.00		1.00	ug/l	05/18/16 22:05	EPA 8260B	mt¢	
Methyl tert-butyl ether	1.91		1.00	ug/l	05/18/16 22:05	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	05/18/16 22:05	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene		102 %	70	130	05/18/16 22:05	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4		103 %	70	130	05/18/16 22:05	EPA 8260B	mtc	
Surrogate: Fluorobenzene		105 %	70	130	05/18/16 22:05	EPA 8260B	mtc	

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Letterle & Associates Ir	1 <b>c</b> .		Project:	UNITED CLEARFIELD	-
2022 Axemann Road Su	uite 201		Project Number:	[none]	Reported:
Bellefonte PA, 16823			Collector:	CLIENT	05/25/16 10:24
Project Manager:	Jed Hill	,	Number of Containers:	7	

Client Sample ID: EFFLUENT

Date/Time Sampled: 05/12/16 12:00

6E13101-03 (Water/Grab) Laboratory Sample ID:

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Method	* Analyst	Note
			-					
/olatile Organic_Compounds by EPA	Method 8260B							
1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	05/18/16 22:43	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	05/18/16 22:43	EPA 8260B	mte	
Benzene	<1.00		1.00	ug/l	05/18/16 22:43	EPA 8260B	mte	
Toluene	<1.00		1.00	ug/l	05/18/16 22:43	EPA 8260B	mtc	
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Isopropylbenzene	<1.00		1.00	ug/l	05/18/16 22:43	EPA 8260B	mtc	
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Surrogate: 1,2-Dichloroethane-d4		101 %	70	130	05/18/16 22:43	EPA 8260B	mtc	
Surrogate: Fluorobenzene		106 %	70	130	05/18/16 22:43	EPA 8260B	mtc	
<b>Conventional Chemistry Parameters</b>	by SM/EPA Me	thods						
Oil & Grease	<5.00		5.00	mg/l	05/22/16 12:50	EPA 1664A	SR.	

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Letterle & Associates Inc.	Project:	UNITED CLEAR	FIELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823	Collector:	CLIENT	05/25/16 10:24
Project Manager: Jed Hill	Number of Containers:	7	

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Letterle & Associates Inc.	Project:	UNITED CLEARFIE	ELD
2022 Axemann Road Suite 201	Project Number:	[none]	Reported:
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By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditious printed on the reverse.	Relinquished by:	Relinquished by:	Relinghistic by SLR		Sampled by:							Fillioent	midfloot	Influent	Sample Description/Location	Date Required: ////	TAT: Normal X Rush C	Quote/PO #:	t Name:	Phone #: 814-355-2241		Bellefonte, PA		Client Name: Letterle & Associates	CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS Please print. See back of COC for instructions/terms and conditions.
tories, Inc., I	Date Time	•	<u> </u>	Date   Time				_						X		GRA Com	AB posite		Pla			823		iates	
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By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.

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Page 7 of 8

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Page 8 of 8



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



State Certifications: MD 275, WV 364

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Letterle & Associates L	nc,	Project;	UNITED CLEARFIELD	
2022 Axemann Road S	uite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823		Collector:	CLIENT	06/07/16 11:47
Project Manager:	Jed Hill	Number of Containers:	3	

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
EFFLUENT	6E26057-01	Water	Grab	05/25/16 11:30	05/26/16 13:15

## Client Sample ID: EFFLUENT

Date/Time Sampled: 05/25/16 11:30

Laboratory Sample 1D: 6E26057-01 (Water/Grab)

					Date / Time		*	
Analyte	Result	MDL	RL	Units	Analyzed	Method	Analyst	Note
Volatile Organic Compounds by EPA	Method 8260B						<u></u>	
Benzene	<1.00		1.00	ug/i	06/01/16 19:35	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	06/01/16 19:35	EPA 8260B	mte	
Ethylbenzene	<1.00		1,00	ug/l	06/01/16 19:35	EPA 8260B	mte	
Xylenes (total)	<2.00		2.00	ug/l	06/01/16 19:35	EPA 8260B	mte	
Isopropylbenzene	<1.00		1.00	ug/l	06/01/16 19:35	EPA 8260B	mte	
Methyl tert-butyl ether	<1.00		1.00	ug/l	06/01/16 19:35	EPA 8260B	mte	
Naphthalene	<1.00		1.00	ug/l	06/01/16 19:35	EPA 8260B	mte	
Surrogate: 4-Bromofluorobenzene		100 %	70	130	06/01/16 19:35	EPA 8260B	mte	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70	130	06/01/16 19:35	EPA 8260B	mte	
Surrogate: Fluorobenzene		107 %	70	130	06/01/16 19:35	EPA 8260B	mte	
<b>Conventional Chemistry Parameters</b>	by SM/EPA Me	thods			<u>-</u>	<u> </u>		
Oil & Grease	<5.00		5.00	mg/l	06/02/16 13:38	EPA 1664A	SR.	

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.

Reviewed and Submitted by:

mint

Michael P. Tyler Laboratory Director



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



State Certifications: MD 275, WV 364

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Letterle & Associates Inc.	Project:	UNITED CLEARFIELD	
2022 Axemann Road Suite 201	Project Number:	[none]	<b>Reported:</b>
Bellefonte PA, 16823	Collector:	CLIENT	06/07/16 11:47
Project Manager: Jed Hill	Number of Containers:	3	

### 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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Letterle & Associates	Inc.	Project:	UNITED CLEA	ARFIELD
2022 Axemann Road	Suite 201	Project Number:	[none]	Reported:
Bellefonte PA, 16823		Collector:	CLIENT	06/07/16 11:47
Project Manager:	Jed Hill	Number of Containers:	3	

#### 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 subpaena 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.

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

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By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse. White

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