

REMEDIAL ACTION PROGRESS REPORT

2nd Quarter 2017



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

Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Prepared for:

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

 **Letterle &
Associates, Inc.**

2022 Axemann Road, Suite 201, Bellefonte, PA 16823



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, July 18, 2017



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July 18, 2017

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

**Re: 2nd Quarter 2017 Remedial Action Progress Report
United Refining Company of Pennsylvania
Kwik Fill M-90
1322 South 2nd 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 second quarter of 2017 and also includes a description of remedial activities completed from April 1, 2017 through June 30, 2017 (second quarter of 2017).

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Ted Hill', is written over the word 'Sincerely,'.

Ted Hill
Project Manager

Enclosure

cc: Mr. Scott C. Wonsettler, P.G., United Refining Company of Pennsylvania (with CD)
Mr. Gerald Hawk, ICF (via email)
Mr. Mitch Harvey, RES Coal, LLC (via email)
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Clearfield - 2nd Qtr 2017 RAPR.doc

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GENERAL INFORMATION

Client Contact:	Scott Wonsettler, P.G.
Letterle Project Manager:	Jed Hill
Regulatory Contact:	Scott Ferguson, P.G.
PADEP Facility ID #:	17-14821
PAUSTIF Claim #:	2015-0004(I)
Number of Wells:	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). 6 former remediation system extraction wells/monitoring wells (MW-1, MW-1A, MW-2, MW-34, MW-35, and MW-36). 2 current remediation system extraction wells (MW-28 and MW-31).
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 2nd 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° 00' 18.02" N and the longitude is reported to be 78° 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 second quarter of 2017.

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 re-evaluate 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 – 2ND QUARTER 2017

Remediation System Operating Summary

Start Date (DPE System):	May 6, 2015
2 nd Quarter 2017 DPE System Uptime:	100% (until shutdown on 4/5/17)
2 nd Quarter 2017 Total Gallons Treated:	25,695 gallons (until shutdown on 4/5/17)
Total Gallons Treated To Date:	1,304,879 gallons

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) were reported at concentrations (site-wide) below their respective PADEP UARSHS MSCs during the fourth quarter of 2016 and first quarter of 2017 groundwater sampling

events (two consecutive quarters); therefore, Letterle shut down the DPE remediation system on April 5, 2017 to monitor static groundwater conditions.

The remedial system groundwater and vapor analytical data are summarized on **Table 1** and **Table 2**, respectively. 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 June 22, 2017. 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 second quarter of 2017 groundwater gauging event indicates the following:

- Groundwater elevations in shallow overburden groundwater ranged from 1,102.46 feet in MW-7 to 1,114.44 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 June 22, 2017 groundwater elevation data, a groundwater hydraulic gradient of 0.032 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 second quarter of 2017 groundwater gauging event. A groundwater potentiometric surface contour map for the June 22, 2017 groundwater gauging event is presented as **Figure 4**.

Groundwater Sampling

Letterle completed a quarterly groundwater sampling event on June 22-23, 2017. 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.

During purging, the groundwater was passed through a flow-through cell that measures dissolved oxygen (DO), pH, TDS, temperature, specific conductivity, and oxidation-reduction (redox) potential. Measurements of these parameters were recorded every 3 minutes. These measurements were recorded until three consecutive readings stabilized to the following: ± 0.1 for pH, $\pm 3\%$ for conductivity, ± 10 millivolts for redox potential, and $\pm 10\%$ for DO and TDS. Purging was considered 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 cross-contamination. 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 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 June 22-23, 2017 indicated no exceedances of the applicable PADEP UARSHS MSCs.

Table 3 summarizes the historical groundwater analytical data and also presents the resultant groundwater analytical results from the second quarter of 2017 groundwater sampling event. The groundwater field screening parameter results are summarized on **Table 4**. Quarterly groundwater analytical laboratory reports are included in **Appendix A**.

PLANNED ACTIVITY

The DPE remediation system was shut down on April 5, 2017 to monitor static groundwater conditions. As a result, the following activities are currently planned for the 3rd Quarter of 2017:

- Quarterly groundwater gauging and sampling (post-system); and,
- Quarterly reporting.

TABLES

TABLE 1
REMEDIAL SYSTEM GROUNDWATER ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Sample Location	Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (Total) (µg/l)	Cumene (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2,4-TMB (µg/l)	1,3,5-TMB (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
	10/12/16	<1.00	<1.00	<1.00	<2.00	<1.00	3.02	<1.00	<1.00	<1.00
	11/11/16	<1.00	<1.00	<1.00	<2.00	<1.00	4.06	<1.00	<1.00	<1.00
	12/06/16	<1.00	<1.00	<1.00	<2.00	<1.00	3.85	<1.00	<1.00	<1.00
	01/12/17	<1.00	<1.00	<1.00	<2.00	<1.00	3.02	<1.00	<1.00	<1.00
	02/07/17	<1.00	<1.00	<1.00	<2.00	<1.00	5.47	<1.00	<1.00	<1.00
	03/08/17	1.09	2.50	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00

TABLE 1
REMEDIAL SYSTEM GROUNDWATER ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Sample Location	Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (Total) (µg/l)	Cumene (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2,4-TMB (µg/l)	1,3,5-TMB (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	NA	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	<2.00	<1.00	5.40	<1.00	NA	NA
	10/07/13	<1.00	<1.00	<1.00	<2.00	<1.00	6.93	<1.00	NA	NA
	11/04/13	<1.00	<1.00	<1.00	<2.00	<1.00	6.35	<1.00	NA	NA
	12/13/13	<1.00	<1.00	<1.00	<2.00	<1.00	4.54	<1.00	NA	NA
	02/06/14	<1.00	<1.00	<1.00	<2.00	<1.00	7.09	<1.00	NA	NA
	03/03/14	<1.00	<1.00	<1.00	<2.00	<1.00	7.69	<1.00	NA	NA
	04/07/14	<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
	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
	10/12/16	<1.00	<1.00	<1.00	<2.00	<1.00	3.57	<1.00	<1.00	<1.00
	11/11/16	<1.00	<1.00	<1.00	<2.00	<1.00	4.05	<1.00	<1.00	<1.00
	12/06/16	<1.00	<1.00	<1.00	<2.00	<1.00	3.44	<1.00	<1.00	<1.00
	01/12/17	<1.00	<1.00	<1.00	<2.00	<1.00	3.76	<1.00	<1.00	<1.00
	02/07/17	<1.00	<1.00	<1.00	<2.00	<1.00	5.91	<1.00	<1.00	<1.00
	03/08/17	<1.00	1.69	<1.00	2.70	<1.00	<1.00	<1.00	<1.00	<1.00

TABLE 1
REMEDIAL SYSTEM GROUNDWATER ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Sample Location	Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (Total) (µg/l)	Cumene (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2,4-TMB (µg/l)	1,3,5-TMB (µg/l)	Oil & Grease (mg/l)
Effluent	10/04/12	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<6.30
	10/17/12	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<6.30
	11/07/12	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	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	<2.00	<1.00	<1.00	<1.00	NA	NA	<6.30
	11/04/13	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<6.30
	11/27/13	<1.00	<1.00	<1.00	<2.00	<1.00	8.40	<1.00	NA	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

TABLE 1
REMEDIAL SYSTEM GROUNDWATER ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Sample Location	Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (Total) (µg/l)	Cumene (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2,4-TMB (µg/l)	1,3,5-TMB (µg/l)	Oil & Grease (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	NA	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	NA	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	NA	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
	10/12/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	10/25/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<5.00
	11/11/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	11/21/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<5.00
	12/06/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	2.70	NA	NA	<5.00
	12/21/16	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	01/12/17	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	01/27/17	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<5.00
	02/07/17	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	02/22/17	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<5.00
	03/08/17	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00
	03/23/17	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	NA	NA	<5.00

Notes:
µg/l - micrograms per liter
mg/l - milligrams per liter
NA - Not Analyzed.

TABLE 2
REMEDIAL SYSTEM VAPOR ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

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
	11/21/16	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	17.16
	01/12/17	<0.07	<0.07	<0.20	<0.07	<0.07	<0.07	<0.07	58.37
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
	11/21/16	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	5.19
	01/12/17	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	30.76
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
	11/21/16	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	1.69
	01/12/17	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	50.77

Notes:

ppmv - parts per million volume.

* - Total for m-xylene, o-xylene, p-xylene.

MTBE - methyl tert-butyl ether.

NA - Not Analyzed.

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		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		
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	NA	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	NA	NA	1.78	1114.42
	5/31/2011	13.5	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	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	NA	NA	2.12	1114.08
	6/25/2012	Monitoring well converted to remedial extraction 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	NA	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
	11/14/2016	1.21	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.08	1109.12
	3/15/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.46	1113.74
	6/23/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.05	1113.15

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		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		
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	NA	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	NA	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	NA	NA	2.55	1114.55
	6/25/2012	Monitoring well converted to remedial extraction 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
	11/14/2016	1.94	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.67	1109.43
	3/15/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.40	1112.70
	6/22/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.02	1113.08

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		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		
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	NA	NA	3.36	1113.18
	8/30/2010	20.5	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	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	NA	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	Monitoring well converted to remedial extraction 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	NA	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
	11/14/2016	4.54	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.19	1109.35
	3/15/2017	2.18	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.93	1112.61
	6/23/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.57	1112.97

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		MTBE	Benzene	Toluene	Ethylbenzene	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		
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	NA	NA	1.27	1115.01
	8/30/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	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	NA	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	NA	NA	0.45	1115.83
	6/25/2012	5.22	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	NA	4.12	1112.16
	3/5/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	NA	4.06	1112.22
	12/2/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	NA	3.90	1112.38
	9/24/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	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
	11/14/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.10	1112.18
	3/15/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.02	1114.26
	6/22/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	1.84	1114.44

TABLE 3
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1322 South 2nd Street
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Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		MTBE	Benzene	Toluene	Ethylbenzene	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		
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	NA	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	NA	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	NA	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	NA	NA	5.63	1108.96
	3/5/2013	11.8	13.4	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	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	NA	NA	5.47	1109.12
	9/24/2014	4.60	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	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
	11/14/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.35	1109.24
	3/15/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.35	1111.24
	6/22/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.31	1111.28

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		MTBE	Benzene	Toluene	Ethylbenzene	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		
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	NA	NA	2.17	1110.40
	8/31/2010	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	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	NA	NA	0.92	1111.65
	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	3.24	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	NA	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	NA	NA	3.40	1109.17
	3/5/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	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	NA	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	NA	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
	11/14/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.90	1107.67
	3/15/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.35	1110.22
	6/23/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.55	1110.02

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		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		
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	NA	NA	1.53	1112.28
	8/31/2010	3.8	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	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	NA	NA	0.43	1113.38
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	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
	Well could not be located. Well not part of quarterly sampling program.											
	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
	11/14/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.31	1107.50
	3/15/2017	1.48	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.98	1109.83
	6/22/2017	1.31	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.06	1109.75
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	NG	Not Surveyed
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	Not Surveyed
Well could not be located. Well not part of quarterly sampling program.												

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		MTBE	Benzene	Toluene	Ethylbenzene	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		
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	NA	NA	5.77	1103.75
	8/31/2010	6.8	104	14.4	47.9	49.2	29.3	38.7	NA	NA	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	NS	NS	NS	NS	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	NA	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	NA	NA	5.80	1103.72
	3/5/2013	<1.00	NA	2.29	5.67	5.16	2.25	3.28	NA	NA	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	NA	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	NA	NA	6.80	1102.72
	9/24/2014	2.09	NA	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	Well not part of quarterly sampling program (approved by PADEP 11/19/15).									6.79	1102.73
	2/9/2016										5.41	1104.11
	5/10/2016										6.49	1103.03
	8/17/2016										7.88	1101.64
	11/14/2016										7.75	1101.77
	6/22/2017										7.06	1102.46

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		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		
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 located.												

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		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		
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	NA	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	NA	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	NA	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	NA	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	NA	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	NA	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	Well not part of quarterly sampling program (approved by PADEP 11/19/15).									1.96	1108.05
	2/9/2016										0.05	1109.96
	5/10/2016										0.21	1109.80
	8/17/2016										2.72	1107.29
	11/14/2016										3.03	1106.98
	3/15/2017										0.17	1109.84
	6/22/2017										1.11	1108.90

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		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		
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	NS	NG	NG
	3/28/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NG	NG
	Well could not be located. Well not part of quarterly sampling program.											
	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
	11/14/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.25	1107.66
	3/15/2017	1.11	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.54	1110.37
	6/22/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.65	1110.26

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		MTBE	Benzene	Toluene	Ethylbenzene	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		
MW-14	3/17/2010	23.9	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	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	NA	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	NA	NA	7.26	1108.87
	12/17/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	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
	11/14/2016	3.02	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.98	1109.15
	3/15/2017	1.73	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.86	1112.27
	6/23/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.44	1112.69

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		MTBE	Benzene	Toluene	Ethylbenzene	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		
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	NA	NA	2.08	1112.68
	8/31/2010	7.0	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	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	NA	NA	1.51	1113.25
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NA	NA	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	NA	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	NA	NA	5.45	1109.31
	3/5/2013	1.70	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	NA	5.51	1109.25
	12/2/2013	1.76	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	NA	5.65	1109.11
	9/24/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	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
	11/14/2016	1.09	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.25	1108.51
	3/15/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.31	1111.45
	6/22/2017	1.11	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.13	1111.63

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		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		
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	NA	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 located.												

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		MTBE	Benzene	Toluene	Ethylbenzene	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		
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	NA	NA	3.43	1110.50
	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	NA	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
	11/14/2016	7.94	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.40	1108.53
	3/15/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.05	1110.88
	6/22/2017	1.26	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	2.94	1110.99

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		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		
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	NA	NA	2.18	1110.18
	8/30/2010	8.6	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	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
Well not part of quarterly sampling program.												
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
Well not part of quarterly sampling program.												

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		MTBE	Benzene	Toluene	Ethylbenzene	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		
MW-28	3/17/2010	4.5	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	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	NA	NA	5.64	1111.10
	11/17/2010	4.1	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	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	NA	NA	NA	NA	NA	NA	NA	4.82	1111.92
	8/24/2011	4.9	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	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 well converted to remedial extraction well.										
	12/17/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	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
	11/14/2016	<5.00	<1.25	<5.00	<5.00	<10.0	<5.00	<5.00	<5.00	<5.00	7.21	1109.53
	3/15/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.17	1112.57
	6/23/2017	<5.00	<5.00	<5.00	<5.00	<10.0	<5.00	<5.00	<5.00	<5.00	3.87	1112.87

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Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		MTBE	Benzene	Toluene	Ethylbenzene	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		
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	NA	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	NA	NA	2.23	1112.42
	5/31/2011	NS	NS	NS	NS	NS	NS	NS	NA	NA	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	NA	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	NA	NA	5.77	1108.88
	3/5/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	NA	5.65	1109.00
	12/2/2013	11.0	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	NA	5.65	1109.00
	9/24/2014	2.20	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	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
	11/14/2016	3.73	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.14	1109.51
	3/15/2017	3.07	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.70	1110.95
	6/22/2017	3.81	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.63	1111.02

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		MTBE	Benzene	Toluene	Ethylbenzene	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		
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	NA	NA	2.41	1112.37
	8/31/2010	22.7	<1.00	<1.00	3.1	<3.00	<1.00	<2.00	NA	NA	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	NA	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	NA	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	NA	NA	5.91	1108.87
	3/5/2013	6.13	1.80	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	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	NA	NA	5.84	1108.94
	9/24/2014	8.54	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	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
	11/14/2016	3.47	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.31	1108.47
	3/15/2017	5.05	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.56	1111.22
	6/22/2017	1.93	2.07	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.37	1111.41

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		MTBE	Benzene	Toluene	Ethylbenzene	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		
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	NA	NA	3.61	1113.41
	8/30/2010	8.0	18.8	1.1	10.5	34.1	1.3	3.3	NA	NA	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	NA	NA	3.48	1113.54
	5/31/2011	6.3	66.1	<1.00	20.0	22.1	2.3	2.1	NA	NA	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	Monitoring well converted to remedial extraction 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	NA	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
	11/14/2016	<10.0	<2.50	<10.0	<10.0	<20.0	<10.0	<10.0	<10.0	<10.0	7.43	1109.59
	3/15/2017	<1.00	<1.00	1.23	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.52	1112.50
	6/23/2017	<5.00	<5.00	<5.00	<5.00	<10.0	<5.00	<5.00	<5.00	<5.00	4.28	1112.74

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		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		
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	NA	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	NA	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	NA	NA	5.65	1111.60
	3/5/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	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	NA	NA	6.10	1111.15
	9/24/2014	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	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
	11/14/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	6.04	1111.21
	3/15/2017	<10.0	<10.0	<10.0	<10.0	<20.0	<10.0	<10.0	<10.0	<10.0	4.00	1113.25
	6/23/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.78	1113.47

TABLE 3
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Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		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		
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	NA	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	NA	NA	3.42	1114.16
	5/31/2011	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	NA	NA	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	NA	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	NA	NA	4.72	1112.86
	3/5/2013	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	NA	NA	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	NA	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	NA	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
	11/14/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	5.60	1111.98
	3/15/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.09	1113.49
	6/23/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.18	1113.40

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		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		
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
	11/14/2016	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.44	1109.64
MW-35	3/15/2017	1.43	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	1.80	4.44	1112.64
	6/23/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.10	1112.98
	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	NA	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
	11/14/2016	10.1	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.80	1109.48
	3/15/2017	1.19	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.76	1112.52
	6/23/2017	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.39	1112.89

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Piezometer/Well	Date	Compound									Depth-to-Groundwater	Groundwater Elevation
		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		
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
	11/14/2016	11.5	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	7.59	1109.09
	3/15/2017	3.75	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	4.15	1112.53
	6/23/2017	2.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	3.76	1112.92

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.

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

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-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-Feb-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
	14-Nov-16	16.87	0.651	423	4.53	7.64	82.0
	15-Mar-17	8.40	2.580	2,464	9.86	7.60	144.5
	23-Jun-17	16.00	0.930	721.5	4.35	7.43	112.0
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-Feb-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
	14-Nov-16	18.12	0.773	503	0.85	6.67	72.1
	15-Mar-17	9.90	1.280	1,170	6.97	6.93	152.2
	22-Jun-17	15.40	1.417	1,780	2.05	7.20	57.9
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-Feb-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
	14-Nov-16	17.70	0.570	371	1.45	6.73	65.1
	15-Mar-17	9.50	2.100	2,022	4.19	7.03	148.4
	23-Jun-17	15.60	1.860	1,476	0.20	7.12	163.6
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

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-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
	14-Nov-16	17.03	2.085	1,356	8.70	8.00	-132.4
	15-Mar-17	9.30	1.400	1,280	3.86	7.33	60.3
	22-Jun-17	15.80	1.500	1,118	0.89	7.96	-103.3
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
	14-Nov-16	14.56	0.823	534	0.42	6.47	69.4
	23-Jun-17	13.00	0.560	468	0.15	6.49	26.1
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
	14-Nov-16	15.99	0.975	634	0.52	6.90	-8.2
	22-Jun-17	13.4	0.810	682	0.12	7.00	-104.8

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

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-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
	14-Nov-16	17.21	0.554	360	0.65	6.66	56.2
	15-Mar-17	9.70	0.429	396	0.45	6.61	58.5
	22-Jun-17	14.90	0.432	348	0.18	6.69	28.6

TABLE 4
GROUNDWATER FIELD SCREENING PARAMETER DATA
Kwik Fill M-90
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Clearfield, PA 16830

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-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-Feb-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
	14-Nov-16	16.19	0.486	316	0.71	6.32	91.9
	15-Mar-17	9.40	0.620	579	1.65	6.70	144.0
	23-Jun-17	14.00	0.379	312	0.35	6.29	136.9
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-Feb-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
	14-Nov-16	16.62	0.972	632	0.40	6.87	48.2
	15-Mar-17	10.20	1.320	1,196	0.66	6.58	85.9
	22-Jun-17	13.50	0.900	748	0.30	6.73	-39.8

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

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-Feb-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
	14-Nov-16	18.15	0.519	339	0.42	6.86	-34.0
	15-Mar-17	10.30	0.150	135	2.03	6.92	69.2
	22-Jun-17	15.40	0.249	220	0.10	6.74	-83.7
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-Feb-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
	14-Nov-16	16.48	0.795	517	0.53	6.66	57.2
	15-Mar-17	9.70	3.640	3,335	4.43	6.79	29.8
	23-Jun-17	13.40	1.260	1,040	0.25	7.07	111.7

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

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-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	11.47	1.175	764	0.34	7.38	100.4
	18-Aug-16	16.16	0.904	588	0.30	6.60	326.1
	14-Nov-16	17.30	1.585	1,021	0.54	7.15	-51.6
	15-Mar-17	10.10	1.000	904	0.33	6.74	97.5
	22-Jun-17	14.30	1.150	943	0.15	6.88	47.3
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
	14-Nov-16	17.15	1.121	730	0.10	7.65	-214.1
	15-Mar-17	10.30	1.240	1,118	0.40	6.78	-25.6
	22-Jun-17	14.10	1.720	1,417	0.14	6.51	-32.1

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

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-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-Feb-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
	14-Nov-16	15.92	1.191	774	0.57	6.57	68.8
	15-Mar-17	9.20	2.240	2,096	0.56	6.40	112.3
	23-Jun-17	12.70	1.230	1,047	0.13	6.92	108.1
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
	14-Nov-16	18.16	0.776	504	0.74	6.40	75.0
	15-Mar-17	9.30	1.340	1,242	0.96	6.42	115.8
	23-Jun-17	16.10	1.740	1,359	0.11	6.54	33.6

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

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-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
	14-Nov-16	17.04	0.505	329	2.69	6.83	82.3
	15-Mar-17	8.60	0.465	442	3.44	7.41	74.6
	23-Jun-17	17.40	0.510	390	0.09	6.82	-24.1
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
	14-Nov-16	15.29	1.183	768	1.66	5.75	103.6
	15-Mar-17	10.40	1.960	1,775	3.19	5.40	203.4
	23-Jun-17	12.50	2.010	1,710	0.18	5.59	158.0
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
	14-Nov-16	17.02	0.775	504	0.49	6.64	56.4
	15-Mar-17	10.30	3.800	3,439	6.89	6.68	74.6
	23-Jun-17	13.80	1.200	1,067	0.12	6.61	123.4

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

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
	14-Nov-16	17.54	0.758	492	0.44	6.42	69.0
	15-Mar-17	9.20	1.330	1,242	7.40	5.63	179.1
	23-Jun-17	13.60	1.940	1,663	0.24	4.20	294.6

Notes:

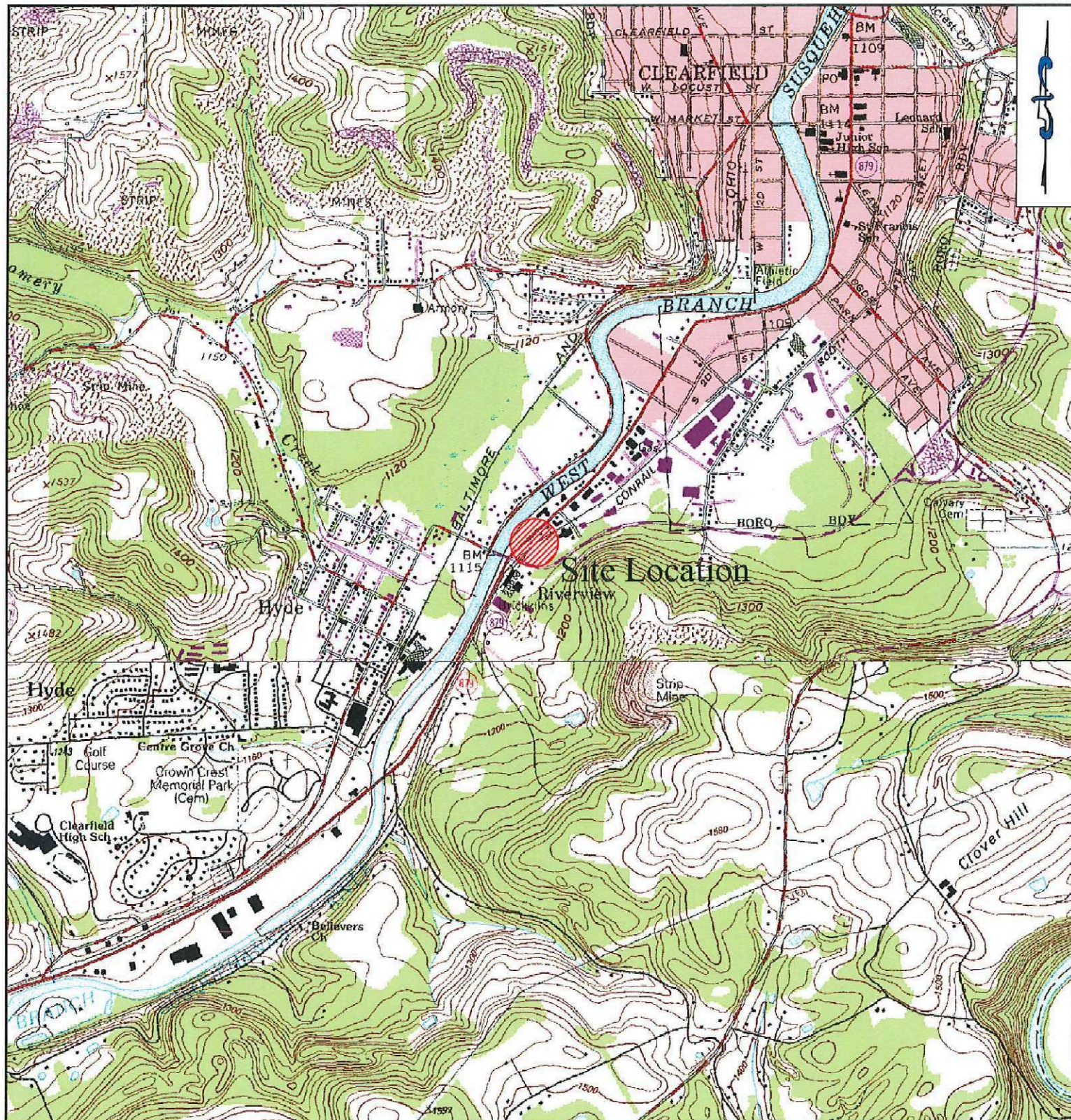
°C - degrees Celsius.

mg/l - milligrams per liter.

mS/cm - milliSiemens per centimeter.

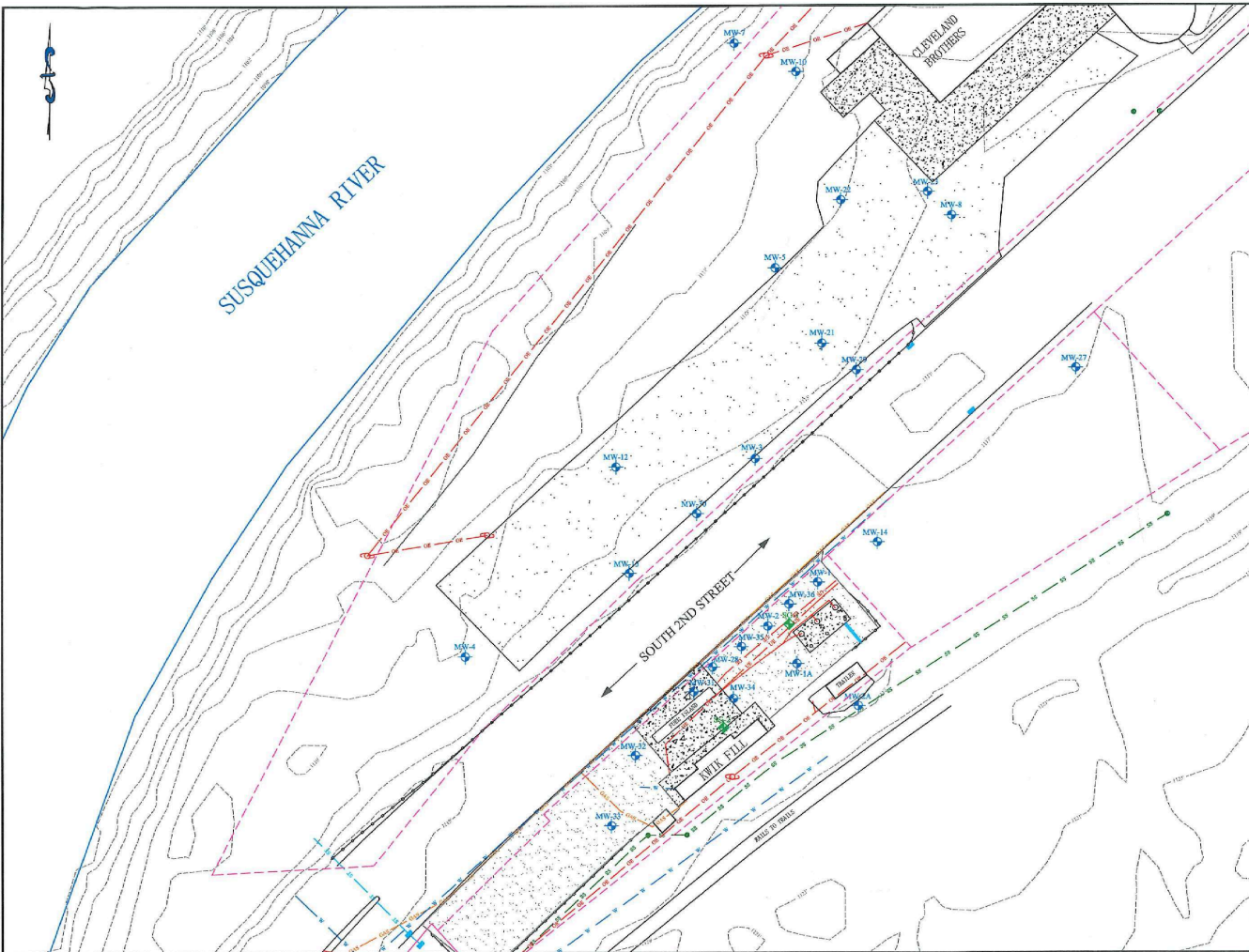
mV - millivolts.

FIGURES



Reference: 7.5-minute United States Geological Survey Topographic Quadrangles of Clearfield and Glen Richey, Pennsylvania, DeLorme 3-D Topographic Quads Program.

Prepared For:	Project Information:	Prepared By:
Kwik Fill M-90 1322 South 2nd Street Clearfield, PA 16830	Project Manager: Jed Hill Project Geologist: George Hunzeker, P.G.	 2022 Axemann Road, Suite 201 Bellefonte, PA 16823 P: 814-355-2241 F: 814-355-2410 www.letterleassociates.com
Title:	Scale (feet):	
Figure 1 Site Location Map	Scale: 1" = 2000' 	



Prepared By:



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 Bellefonte, PA 16823
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Project Manager: Jed Hill
 Project Geologist: George Hunzeker, P.G.

Prepared For:

Kwik Fill M-90
 1322 South 2nd Street
 Clearfield, PA 16830

Title:

Figure 2
 Site Layout Map

Legend:

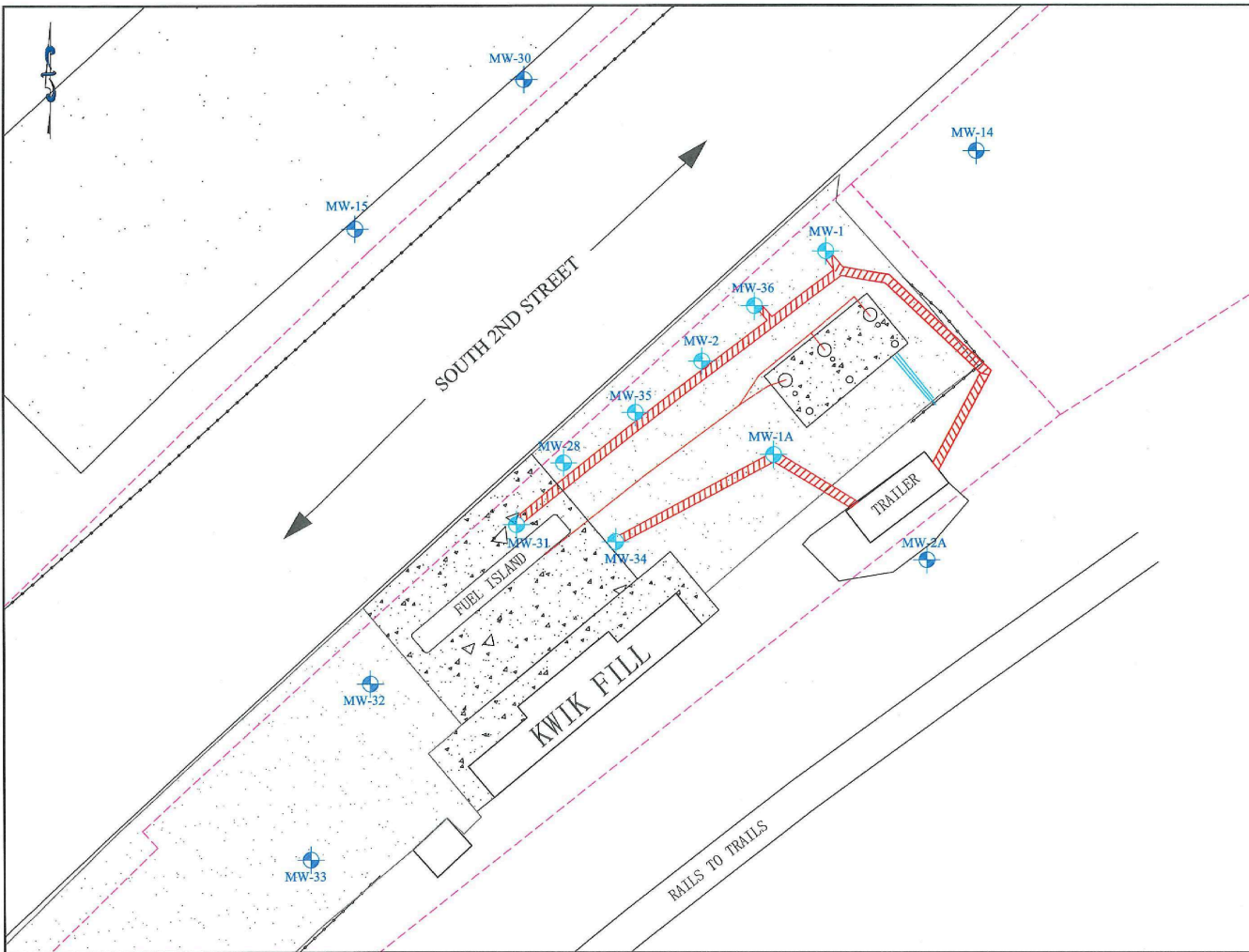
- Groundwater Monitoring Well Location
- Soil Vapor Sample Point
- Surface Contour (feet above mean sea level)
- Overhead Utility Line
- Underground Utility Line
- Sanitary Sewer Line
- Stormwater Conveyance
- Water Line
- Gas Line
- Product Line
- Property Boundary
- Guideways
- Utility/Power Pole
- Sewer Manhole/Cleanout

Scale (ft.):

1" = 50'

One Inch Equals Fifty Feet





Prepared By:

Letterle & Associates

2022 Axemann Road, Suite 201
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Project Geologist: George Hunzeker, P.G.

Prepared For:

Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Title:

Figure 3
System Layout/Trenching Diagram

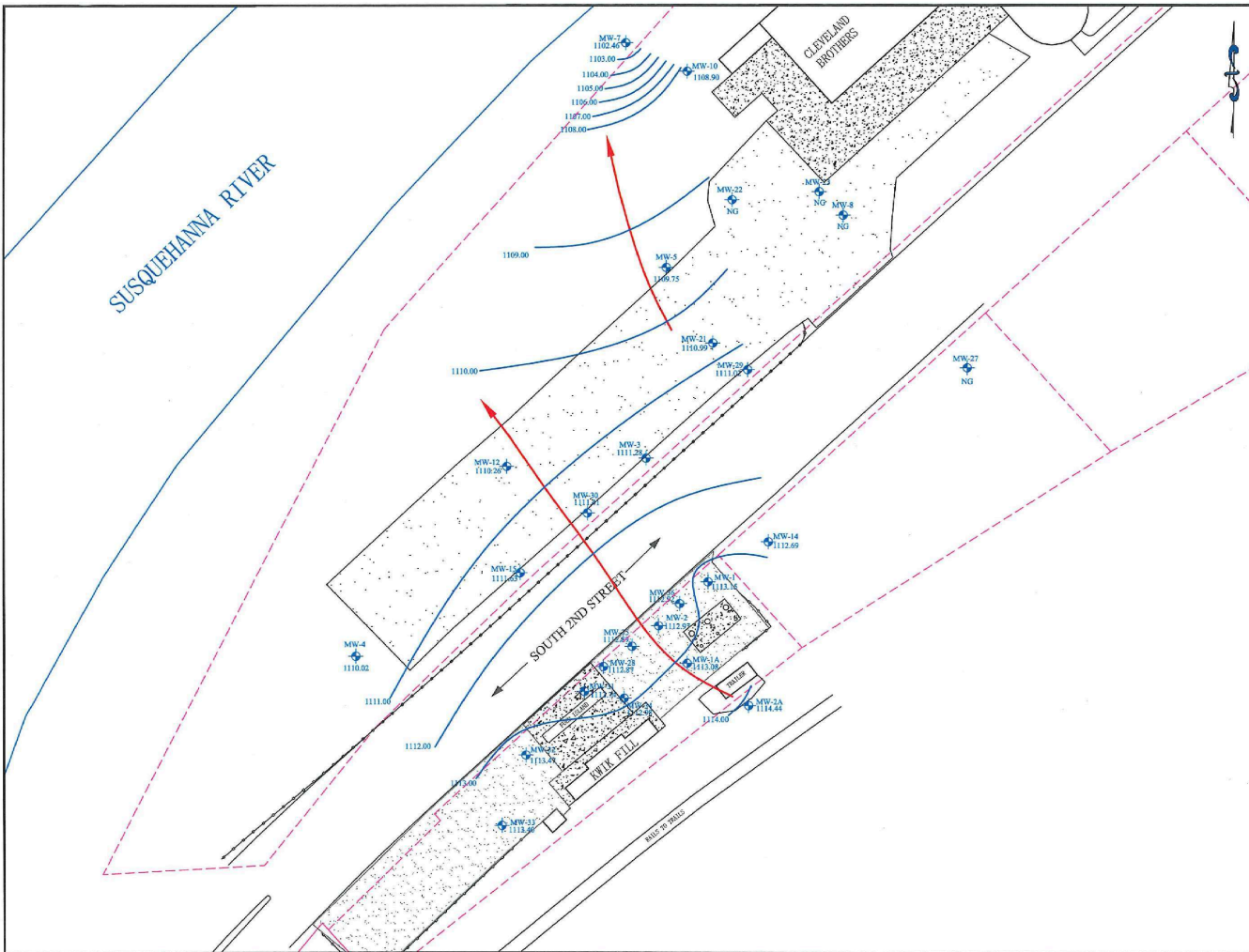
Legend:

- Groundwater Monitoring Well Location
- Groundwater Monitoring/Recovery Well Location
- Product Line
- Property Boundary
- Guiderails
- Vent Lines
- System Trenches

Scale (ft.):

1" = 20'
One Inch Equals Twenty Feet

0 20 40



Prepared By:



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Project Geologist: George Hunzeker, P.G.

Prepared For:

Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

Title:

Figure 4
Groundwater Potentiometric
Surface Contour Map
June 22, 2017

Legend:

- Groundwater Monitoring Well Location
- Groundwater Potentiometric Surface Contour Line (feet above mean sea level)
- Predominant Direction of Groundwater Flow
- Property Boundary
- Guidrails
- Not Gauged

Scale (ft.):

1" = 50'
One Inch Equals Fifty Feet



APPENDIX

Appendix A

Quarterly Groundwater Analytical Laboratory Reports



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

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



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Letterle & Associates Inc.
2022 Axemann Road Suite 201
Bellefonte PA, 16823
Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported:
07/14/17 12:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1	7F27018-01	Water	Grab	06/23/17 08:11	06/27/17 18:00
MW-1A	7F27018-02	Water	Grab	06/22/17 14:15	06/27/17 18:00
MW-2	7F27018-03	Water	Grab	06/23/17 08:58	06/27/17 18:00
MW-2A	7F27018-04	Water	Grab	06/22/17 14:00	06/27/17 18:00
MW-3	7F27018-05	Water	Grab	06/22/17 12:59	06/27/17 18:00
MW-4	7F27018-06	Water	Grab	06/23/17 10:45	06/27/17 18:00
MW-5	7F27018-07	Water	Grab	06/22/17 13:40	06/27/17 18:00
MW-12	7F27018-08	Water	Grab	06/22/17 12:32	06/27/17 18:00
MW-14	7F27018-09	Water	Grab	06/23/17 08:26	06/27/17 18:00
MW-15	7F27018-10	Water	Grab	06/22/17 12:17	06/27/17 18:00
MW-21	7F27018-11	Water	Grab	06/22/17 13:26	06/27/17 18:00
MW-28	7F27018-12	Water	Grab	06/23/17 09:34	06/27/17 18:00
MW-29	7F27018-13	Water	Grab	06/22/17 13:13	06/27/17 18:00
MW-30	7F27018-14	Water	Grab	06/22/17 12:45	06/27/17 18:00
MW-31	7F27018-15	Water	Grab	06/23/17 09:51	06/27/17 18:00
MW-32	7F27018-16	Water	Grab	06/23/17 10:28	06/27/17 18:00
MW-33	7F27018-17	Water	Grab	06/23/17 10:09	06/27/17 18:00
MW-34	7F27018-18	Water	Grab	06/23/17 07:54	06/27/17 18:00

Fairway Laboratories, Inc.

Reviewed and Submitted by:

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.

Michael P. Tyler
Laboratory Director

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



2019 Ninth Avenue
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PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Letterle & Associates Inc.
2022 Axemann Road Suite 201
Bellefonte PA, 16823
Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported:
07/14/17 12:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-35	7F27018-19	Water	Grab	06/23/17 09:13	06/27/17 18:00
MW-36	7F27018-20	Water	Grab	06/23/17 08:43	06/27/17 18:00

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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Letterle & Associates Inc.
2022 Axemann Road Suite 201
Bellefonte PA, 16823
Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported: 07/14/17 12:51

Client Sample ID: MW-1

Date/Time Sampled: 06/23/17 08:11

Laboratory Sample ID: 7F27018-01 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 04:14	EPA 8260B	bag	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 04:14	EPA 8260B	bag	
Benzene	<1.00		1.00	ug/l	07/01/17 04:14	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	07/01/17 04:14	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	07/01/17 04:14	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	07/01/17 04:14	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	07/01/17 04:14	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/01/17 04:14	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	07/01/17 04:14	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	102 %		70-130		07/01/17 04:14	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	97.2 %		70-130		07/01/17 04:14	EPA 8260B	bag	
Surrogate: Fluorobenzene	93.7 %		70-130		07/01/17 04:14	EPA 8260B	bag	

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2022 Axemann Road Suite 201
Bellefonte PA, 16823
Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported: 07/14/17 12:51

Client Sample ID: MW-1A

Date/Time Sampled: 06/22/17 14:15

Laboratory Sample ID: 7F27018-02 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 04:52	EPA 8260B	bag	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 04:52	EPA 8260B	bag	
Benzene	<1.00		1.00	ug/l	07/01/17 04:52	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	07/01/17 04:52	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	07/01/17 04:52	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	07/01/17 04:52	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	07/01/17 04:52	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/01/17 04:52	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	07/01/17 04:52	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	103 %		70-130		07/01/17 04:52	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	96.2 %		70-130		07/01/17 04:52	EPA 8260B	bag	
Surrogate: Fluorobenzene	94.0 %		70-130		07/01/17 04:52	EPA 8260B	bag	

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Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported:
07/14/17 12:51

Client Sample ID: MW-2

Date/Time Sampled: 06/23/17 08:58

Laboratory Sample ID: 7F27018-03 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 05:31	EPA 8260B	bag	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 05:31	EPA 8260B	bag	
Benzene	<1.00		1.00	ug/l	07/01/17 05:31	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	07/01/17 05:31	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	07/01/17 05:31	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	07/01/17 05:31	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	07/01/17 05:31	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/01/17 05:31	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	07/01/17 05:31	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	103 %		70-130		07/01/17 05:31	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	97.0 %		70-130		07/01/17 05:31	EPA 8260B	bag	
Surrogate: Fluorobenzene	93.2 %		70-130		07/01/17 05:31	EPA 8260B	bag	

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Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported: 07/14/17 12:51

Client Sample ID: MW-2A

Date/Time Sampled: 06/22/17 14:00

Laboratory Sample ID: 7F27018-04 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 06:09	EPA 8260B	bag	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 06:09	EPA 8260B	bag	
Benzene	<1.00		1.00	ug/l	07/01/17 06:09	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	07/01/17 06:09	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	07/01/17 06:09	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	07/01/17 06:09	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	07/01/17 06:09	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/01/17 06:09	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	07/01/17 06:09	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	104 %		70-130		07/01/17 06:09	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	95.7 %		70-130		07/01/17 06:09	EPA 8260B	bag	
Surrogate: Fluorobenzene	92.6 %		70-130		07/01/17 06:09	EPA 8260B	bag	

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Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported:
07/14/17 12:51

Client Sample ID: MW-3

Date/Time Sampled: 06/22/17 12:59

Laboratory Sample ID: 7F27018-05 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/03/17 18:36	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/03/17 18:36	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	07/03/17 18:36	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	07/03/17 18:36	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	07/03/17 18:36	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	07/03/17 18:36	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	07/03/17 18:36	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/03/17 18:36	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	07/03/17 18:36	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.3 %		70-130		07/03/17 18:36	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	97.2 %		70-130		07/03/17 18:36	EPA 8260B	mtc	
Surrogate: Fluorobenzene	97.4 %		70-130		07/03/17 18:36	EPA 8260B	mtc	

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Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported: 07/14/17 12:51

Client Sample ID: MW-4

Date/Time Sampled: 06/23/17 10:45

Laboratory Sample ID: 7F27018-06 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 06:47	EPA 8260B	bag	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 06:47	EPA 8260B	bag	
Benzene	<1.00		1.00	ug/l	07/01/17 06:47	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	07/01/17 06:47	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	07/01/17 06:47	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	07/01/17 06:47	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	07/01/17 06:47	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/01/17 06:47	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	07/01/17 06:47	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	104 %		70-130		07/01/17 06:47	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	96.0 %		70-130		07/01/17 06:47	EPA 8260B	bag	
Surrogate: Fluorobenzene	93.5 %		70-130		07/01/17 06:47	EPA 8260B	bag	

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Bellefonte PA, 16823
Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported:
07/14/17 12:51

Client Sample ID: MW-5

Date/Time Sampled: 06/22/17 13:40

Laboratory Sample ID: 7F27018-07 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 07:26	EPA 8260B	bag	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 07:26	EPA 8260B	bag	
Benzene	<1.00		1.00	ug/l	07/01/17 07:26	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	07/01/17 07:26	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	07/01/17 07:26	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	07/01/17 07:26	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	07/01/17 07:26	EPA 8260B	bag	
Methyl tert-butyl ether	1.31		1.00	ug/l	07/01/17 07:26	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	07/01/17 07:26	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	105 %		70-130		07/01/17 07:26	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	96.2 %		70-130		07/01/17 07:26	EPA 8260B	bag	
Surrogate: Fluorobenzene	93.5 %		70-130		07/01/17 07:26	EPA 8260B	bag	

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Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported: 07/14/17 12:51

Client Sample ID: MW-12

Date/Time Sampled: 06/22/17 12:32

Laboratory Sample ID: 7F27018-08 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 08:04	EPA 8260B	bag	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 08:04	EPA 8260B	bag	
Benzene	<1.00		1.00	ug/l	07/01/17 08:04	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	07/01/17 08:04	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	07/01/17 08:04	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	07/01/17 08:04	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	07/01/17 08:04	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/01/17 08:04	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	07/01/17 08:04	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	102 %		70-130		07/01/17 08:04	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	96.2 %		70-130		07/01/17 08:04	EPA 8260B	bag	
Surrogate: Fluorobenzene	94.2 %		70-130		07/01/17 08:04	EPA 8260B	bag	

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Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported: 07/14/17 12:51

Client Sample ID: MW-14

Date/Time Sampled: 06/23/17 08:26

Laboratory Sample ID: 7F27018-09 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 08:42	EPA 8260B	bag	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 08:42	EPA 8260B	bag	
Benzene	<1.00		1.00	ug/l	07/01/17 08:42	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	07/01/17 08:42	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	07/01/17 08:42	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	07/01/17 08:42	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	07/01/17 08:42	EPA 8260B	bag	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/01/17 08:42	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	07/01/17 08:42	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	103 %		70-130		07/01/17 08:42	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	97.0 %		70-130		07/01/17 08:42	EPA 8260B	bag	
Surrogate: Fluorobenzene	92.9 %		70-130		07/01/17 08:42	EPA 8260B	bag	

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Bellefonte PA, 16823
Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported:
07/14/17 12:51

Client Sample ID: MW-15

Date/Time Sampled: 06/22/17 12:17

Laboratory Sample ID: 7F27018-10 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00	1.00	ug/l	07/01/17 09:21	EPA 8260B	bag
1,2,4-Trimethylbenzene	<1.00	1.00	ug/l	07/01/17 09:21	EPA 8260B	bag
Benzene	<1.00	1.00	ug/l	07/01/17 09:21	EPA 8260B	bag
Toluene	<1.00	1.00	ug/l	07/01/17 09:21	EPA 8260B	bag
Ethylbenzene	<1.00	1.00	ug/l	07/01/17 09:21	EPA 8260B	bag
Xylenes (total)	<2.00	2.00	ug/l	07/01/17 09:21	EPA 8260B	bag
Isopropylbenzene	<1.00	1.00	ug/l	07/01/17 09:21	EPA 8260B	bag
Methyl tert-butyl ether	1.11	1.00	ug/l	07/01/17 09:21	EPA 8260B	bag
Naphthalene	<1.00	1.00	ug/l	07/01/17 09:21	EPA 8260B	bag
Surrogate: 4-Bromofluorobenzene	104 %	70-130		07/01/17 09:21	EPA 8260B	bag
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		07/01/17 09:21	EPA 8260B	bag
Surrogate: Fluorobenzene	94.3 %	70-130		07/01/17 09:21	EPA 8260B	bag

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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Letterle & Associates Inc.
2022 Axemann Road Suite 201
Bellefonte PA, 16823
Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported: 07/14/17 12:51

Client Sample ID: MW-21

Date/Time Sampled: 06/22/17 13:26

Laboratory Sample ID: 7F27018-11 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 09:59	EPA 8260B	bag	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 09:59	EPA 8260B	bag	
Benzene	<1.00		1.00	ug/l	07/01/17 09:59	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	07/01/17 09:59	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	07/01/17 09:59	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	07/01/17 09:59	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	07/01/17 09:59	EPA 8260B	bag	
Methyl tert-butyl ether	1.26		1.00	ug/l	07/01/17 09:59	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	07/01/17 09:59	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	104 %		70-130		07/01/17 09:59	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	96.1 %		70-130		07/01/17 09:59	EPA 8260B	bag	
Surrogate: Fluorobenzene	92.4 %		70-130		07/01/17 09:59	EPA 8260B	bag	

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2022 Axemann Road Suite 201
Bellefonte PA, 16823
Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported:
07/14/17 12:51

Client Sample ID: MW-28

Date/Time Sampled: 06/23/17 09:34

Laboratory Sample ID: 7F27018-12 (Water/Grab)

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

1,3,5-Trimethylbenzene	<5.00		5.00	ug/l	06/30/17 04:00	EPA 8260B	bag	
1,2,4-Trimethylbenzene	<5.00		5.00	ug/l	06/30/17 04:00	EPA 8260B	bag	
Benzene	<5.00		5.00	ug/l	06/30/17 04:00	EPA 8260B	bag	
Toluene	<5.00		5.00	ug/l	06/30/17 04:00	EPA 8260B	bag	
Ethylbenzene	<5.00		5.00	ug/l	06/30/17 04:00	EPA 8260B	bag	
Xylenes (total)	<10.0		10.0	ug/l	06/30/17 04:00	EPA 8260B	bag	
Isopropylbenzene	<5.00		5.00	ug/l	06/30/17 04:00	EPA 8260B	bag	
Methyl tert-butyl ether	<5.00		5.00	ug/l	06/30/17 04:00	EPA 8260B	bag	
Naphthalene	<5.00		5.00	ug/l	06/30/17 04:00	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	97.6 %		70-130		06/30/17 04:00	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	95.4 %		70-130		06/30/17 04:00	EPA 8260B	bag	
Surrogate: Fluorobenzene	97.2 %		70-130		06/30/17 04:00	EPA 8260B	bag	

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Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported: 07/14/17 12:51

Client Sample ID: MW-29

Date/Time Sampled: 06/22/17 13:13

Laboratory Sample ID: 7F27018-13 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 11:15	EPA 8260B	bag	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 11:15	EPA 8260B	bag	
Benzene	<1.00		1.00	ug/l	07/01/17 11:15	EPA 8260B	bag	
Toluene	<1.00		1.00	ug/l	07/01/17 11:15	EPA 8260B	bag	
Ethylbenzene	<1.00		1.00	ug/l	07/01/17 11:15	EPA 8260B	bag	
Xylenes (total)	<2.00		2.00	ug/l	07/01/17 11:15	EPA 8260B	bag	
Isopropylbenzene	<1.00		1.00	ug/l	07/01/17 11:15	EPA 8260B	bag	
Methyl tert-butyl ether	3.81		1.00	ug/l	07/01/17 11:15	EPA 8260B	bag	
Naphthalene	<1.00		1.00	ug/l	07/01/17 11:15	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	103 %		70-130		07/01/17 11:15	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	97.1 %		70-130		07/01/17 11:15	EPA 8260B	bag	
Surrogate: Fluorobenzene	92.4 %		70-130		07/01/17 11:15	EPA 8260B	bag	

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Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported:
07/14/17 12:51

Client Sample ID: MW-30

Date/Time Sampled: 06/22/17 12:45

Laboratory Sample ID: 7F27018-14 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00	1.00	ug/l	06/30/17 23:50	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<1.00	1.00	ug/l	06/30/17 23:50	EPA 8260B	mtc
Benzene	2.07	1.00	ug/l	06/30/17 23:50	EPA 8260B	mtc
Toluene	<1.00	1.00	ug/l	06/30/17 23:50	EPA 8260B	mtc
Ethylbenzene	<1.00	1.00	ug/l	06/30/17 23:50	EPA 8260B	mtc
Xylenes (total)	<2.00	2.00	ug/l	06/30/17 23:50	EPA 8260B	mtc
Isopropylbenzene	<1.00	1.00	ug/l	06/30/17 23:50	EPA 8260B	mtc
Methyl tert-butyl ether	1.93	1.00	ug/l	06/30/17 23:50	EPA 8260B	mtc
Naphthalene	<1.00	1.00	ug/l	06/30/17 23:50	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130		06/30/17 23:50	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		06/30/17 23:50	EPA 8260B	mtc
Surrogate: Fluorobenzene	99.1 %	70-130		06/30/17 23:50	EPA 8260B	mtc

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Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported: 07/14/17 12:51

Client Sample ID: MW-31

Date/Time Sampled: 06/23/17 09:51

Laboratory Sample ID: 7F27018-15 (Water/Grab)

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

1,3,5-Trimethylbenzene	<5.00		5.00	ug/l	06/30/17 04:39	EPA 8260B	bag	
1,2,4-Trimethylbenzene	<5.00		5.00	ug/l	06/30/17 04:39	EPA 8260B	bag	
Benzene	<5.00		5.00	ug/l	06/30/17 04:39	EPA 8260B	bag	
Toluene	<5.00		5.00	ug/l	06/30/17 04:39	EPA 8260B	bag	
Ethylbenzene	<5.00		5.00	ug/l	06/30/17 04:39	EPA 8260B	bag	
Xylenes (total)	<10.0		10.0	ug/l	06/30/17 04:39	EPA 8260B	bag	
Isopropylbenzene	<5.00		5.00	ug/l	06/30/17 04:39	EPA 8260B	bag	
Methyl tert-butyl ether	<5.00		5.00	ug/l	06/30/17 04:39	EPA 8260B	bag	
Naphthalene	<5.00		5.00	ug/l	06/30/17 04:39	EPA 8260B	bag	
Surrogate: 4-Bromofluorobenzene	98.7 %		70-130		06/30/17 04:39	EPA 8260B	bag	
Surrogate: 1,2-Dichloroethane-d4	95.7 %		70-130		06/30/17 04:39	EPA 8260B	bag	
Surrogate: Fluorobenzene	98.5 %		70-130		06/30/17 04:39	EPA 8260B	bag	

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Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported:
07/14/17 12:51

Client Sample ID: MW-32

Date/Time Sampled: 06/23/17 10:28

Laboratory Sample ID: 7F27018-16 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 00:27	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 00:27	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	07/01/17 00:27	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	07/01/17 00:27	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	07/01/17 00:27	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	07/01/17 00:27	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	07/01/17 00:27	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/01/17 00:27	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	07/01/17 00:27	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	95.6 %		70-130		07/01/17 00:27	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	98.2 %		70-130		07/01/17 00:27	EPA 8260B	mtc	
Surrogate: Fluorobenzene	97.4 %		70-130		07/01/17 00:27	EPA 8260B	mtc	

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2022 Axemann Road Suite 201
Bellefonte PA, 16823
Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported:
07/14/17 12:51

Client Sample ID: MW-33

Date/Time Sampled: 06/23/17 10:09

Laboratory Sample ID: 7F27018-17 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 01:05	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 01:05	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	07/01/17 01:05	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	07/01/17 01:05	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	07/01/17 01:05	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	07/01/17 01:05	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	07/01/17 01:05	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/01/17 01:05	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	07/01/17 01:05	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98.9 %		70-130		07/01/17 01:05	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	98.5 %		70-130		07/01/17 01:05	EPA 8260B	mtc	
Surrogate: Fluorobenzene	97.2 %		70-130		07/01/17 01:05	EPA 8260B	mtc	

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2022 Axemann Road Suite 201
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Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported:
07/14/17 12:51

Client Sample ID: MW-34

Date/Time Sampled: 06/23/17 07:54

Laboratory Sample ID: 7F27018-18 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 02:20	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 02:20	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	07/01/17 02:20	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	07/01/17 02:20	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	07/01/17 02:20	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	07/01/17 02:20	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	07/01/17 02:20	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/01/17 02:20	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	07/01/17 02:20	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96.8 %		70-130		07/01/17 02:20	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	101 %		70-130		07/01/17 02:20	EPA 8260B	mtc	
Surrogate: Fluorobenzene	99.2 %		70-130		07/01/17 02:20	EPA 8260B	mtc	

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2022 Axemann Road Suite 201
Bellefonte PA, 16823
Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported:
07/14/17 12:51

Client Sample ID: MW-35

Date/Time Sampled: 06/23/17 09:13

Laboratory Sample ID: 7F27018-19 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 09:55	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<1.00		1.00	ug/l	07/01/17 09:55	EPA 8260B	mtc	
Benzene	<1.00		1.00	ug/l	07/01/17 09:55	EPA 8260B	mtc	
Toluene	<1.00		1.00	ug/l	07/01/17 09:55	EPA 8260B	mtc	
Ethylbenzene	<1.00		1.00	ug/l	07/01/17 09:55	EPA 8260B	mtc	
Xylenes (total)	<2.00		2.00	ug/l	07/01/17 09:55	EPA 8260B	mtc	
Isopropylbenzene	<1.00		1.00	ug/l	07/01/17 09:55	EPA 8260B	mtc	
Methyl tert-butyl ether	<1.00		1.00	ug/l	07/01/17 09:55	EPA 8260B	mtc	
Naphthalene	<1.00		1.00	ug/l	07/01/17 09:55	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	94.7 %		70-130		07/01/17 09:55	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	97.6 %		70-130		07/01/17 09:55	EPA 8260B	mtc	
Surrogate: Fluorobenzene	98.1 %		70-130		07/01/17 09:55	EPA 8260B	mtc	

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

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



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.
2022 Axemann Road Suite 201
Bellefonte PA, 16823
Project Manager: Jed Hill

Project: UNITED CLEARFIELD
Project Number: [none]
Collector: CLIENT
Number of Containers: 40
Reported:
07/14/17 12:51

Client Sample ID: MW-36

Date/Time Sampled: 06/23/17 08:43

Laboratory Sample ID: 7F27018-20 (Water/Grab)

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

1,3,5-Trimethylbenzene	<1.00	1.00	ug/l	07/01/17 10:32	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<1.00	1.00	ug/l	07/01/17 10:32	EPA 8260B	mtc
Benzene	<1.00	1.00	ug/l	07/01/17 10:32	EPA 8260B	mtc
Toluene	<1.00	1.00	ug/l	07/01/17 10:32	EPA 8260B	mtc
Ethylbenzene	<1.00	1.00	ug/l	07/01/17 10:32	EPA 8260B	mtc
Xylenes (total)	<2.00	2.00	ug/l	07/01/17 10:32	EPA 8260B	mtc
Isopropylbenzene	<1.00	1.00	ug/l	07/01/17 10:32	EPA 8260B	mtc
Methyl tert-butyl ether	2.00	1.00	ug/l	07/01/17 10:32	EPA 8260B	mtc
Naphthalene	<1.00	1.00	ug/l	07/01/17 10:32	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130		07/01/17 10:32	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		07/01/17 10:32	EPA 8260B	mtc
Surrogate: Fluorobenzene	97.8 %	70-130		07/01/17 10:32	EPA 8260B	mtc

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07/14/17 12:51

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.

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.

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; and should be considered as analyzed outside the EPA holding time.

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

* G indicates analysis performed by Fairway Laboratories, Inc. at the Greensburg location PaDEP: 65-00392. 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.

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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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Please print. See back of COC for instructions/terms and conditions.



ENVIRONMENTAL LABORATORIES
Environmental Laboratory

Client Page # 1 of 2

1105876543210

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Please print. See back of COC for instructions/terms and conditions.



2019 9th Ave.
P.O. Box 1925
Altoona, PA 16602
Phone: (814) 946-4306
Fax: (814) 946-8791

Client Page # 2 of 2

Client Name: <u>Letterle & Associates</u>		Address: <u>2022 Axemann Road</u> <u>Bellefonte, PA 16823</u>		Contact: <u>Jed H. H.</u>		Phone #: <u>814-355-2241</u>		Fax #: <u>814-355-2410</u>		Project Name: <u>Unleaded Clearfield</u>		Quote/PO #: _____	
TAT: Normal ☒ Rush ☐		Rush TAT subject to pre-approval and surcharge		Date Required: <u> / / </u>		GRAB		Composite		Received on ice? Y ☐ N ☐		Reportable to PADEP? Yes ☐ No ☐	
Sample Description/Location		Start Date		Start Time		End Date		End Time		GRAB -or- Composite		Matrix	
MW-28		X				6-23		9:34		Solid		Water	
MW-29						6-22		13:13		Other		# of Containers	
MW-30						6-22		12:45		2008 Unleaded Gas			
MW-31						6-23		9:51					
MW-32						6-23		10:28					
MW-33						6-23		10:09					
MW-34						6-23		7:54					
MW-35						6-23		9:13					
MW-36						6-23		9:43					
Sampled by: <u>[Signature]</u>		Date: <u>6/23/17</u>		Time: <u>12:30</u>		Received by: <u>[Signature]</u>		Date: <u>6/23/17</u>		Time: <u>10:50</u>		Remarks	
Relinquished by: <u>[Signature]</u>		Date: <u>6/23/17</u>		Time: <u>1800</u>		Received by: <u>[Signature]</u>		Date: <u>6/23/17</u>		Time: <u>1800</u>			
Relinquished by: _____		Date: _____		Time: _____		Received by: _____		Date: _____		Time: _____			
Relinquished by: _____		Date: _____		Time: _____		Received by: _____		Date: _____		Time: _____			

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

White Original - FLI File Canary - FLI Copy Pink - Customer Receipt Copy

