WOODLAND FOOD & FUEL\SITE CHARACTERIZATION\PG CERTIFICATION PAGE Project No. 4923.18.01

SITE CHARACTERIZATION REPORT

WOODLAND FOOD & FUEL (aka Gio's BBQ)
2829 Woodland Bigler Highway, Bradford Township (Woodland),
Clearfield County, Pennsylvania 16881
PADEP Facility ID #17-70935
USTIF Claim # 2017-0178

PROFESSIONAL CERTIFICATION:

Professional Geologist:

Print or Type Name: Guy

Signature:

Date:

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PROFESSIONAL CERTIFICATION:

Professional Engineer:

Print or Type Name: Jason Haney, P.E.

Signature:

Date: December 20, 2018





Corporate Office & Laboratory:

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PADEP #33-258 EPA Lab #PA00155

WOODLAND\SCR REPORT\WOODLAND SCR APX - 122018 Project No. 4923.18.01

SITE CHARACTERIZATION REPORT

WOODLAND FOOD & FUEL (AKA GIO'S BBQ)
2829 WOODLAND BIGLER HIGHWAY, BRADFORD TOWNSHIP (WOODLAND),
CLEARFIELD COUNTY, PENNSYLVANIA, 16881
PADEP FACILITY ID # 17-70935
USTIF CLAIM # 2017-0178

Prepared for

MR. DAVE PANASITI WOODLAND FOOD AND FUEL WOODLAND, PENNSYLVANIA

Prepared by

MOUNTAIN RESEARCH, LLC ALTOONA, PENNSYLVANIA

DECEMBER 2018

Prepared by:

Reviewed by:







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WOODLAND\SCR REPORT\WOODLAND SCR APX - 122018 Project No. 4923.18.01

December 20, 2018

Mr. Scott Ferguson, P.G.
Pennsylvania Department of Environmental Protection
Northcentral Regional Office
208 West Third Street
Williamsport, Pennsylvania 17701-6448

RE: Site Characterization Report

Woodland Food & Fuel (Aka Gio's BBQ)

2829 Woodland Bigler Highway, Bradford Township (Woodland),

Clearfield County, Pennsylvania, 16881

PADEP Facility ID #17-70935 USTIF Claim #2017-0178

Dear Mr. Ferguson:

Please find enclosed an original of the Site Characterization Report prepared by Mountain Research, LLC for the above-referenced site, for your review and approval.

Should you have any questions regarding the enclosed report or require any additional documentation in order to complete the report review and approval process, please contact the undersigned at (814) 949-2034, Ext. 212 or via e-mail at jhaney@mountainresearch.com.

Sincerely,

MOUNTAIN RESEARCH, LLC

Jason R. Haney, P.E. Project Engineer

JRH:II Enclosure





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SITE CHARACTERIZATION REPORT

Woodland Food & Fuel (aka Gio's BBQ)
2829 Woodland Bigler Highway, Bradford Township (Woodland),
Clearfield County, Pennsylvania, 16881
PADEP Facility ID # 17-70935
USTIF Claim # 2017-0178

1.0 EXECUTIVE SUMMARY

- On December 22, 2017, a release was detected from Tank #003. An investigation by Bolger Brothers, Inc. identified a compromised functional element at the top of the tank, releasing super grade gasoline into the tank field backfill. A review of tank levels and sales records revealed an estimation of 1,000 gallons of fuel were released. An Emergency Response Notification Report was immediately submitted to PADEP on the 22nd.
- Interim remedial activities were initiated on December 22, 2017, with the excavation of an
 interceptor trench on the east side of the building between the sub slab and the tank field
 in an attempt to mitigate vapors that were causing nuisance odors within the building.
 Excavated materials were stockpiled on and covered on plastic, and sampled for disposal.
 Upon elimination of nuisance odors and minimal photoionization detector (PID) readings
 recorded within the building, the trench was backfilled on January 11, 2018.
- An exploratory excavation on the east side of the UST field at Tank #003 on January 9, 2018 revealed petroleum impacted tank field backfill, and free product perched in the bottom of the tank field basin. Excavated materials were stockpiled on and covered in plastic, and sampled for disposal.
- Two vapor recovery wells (RW-1 & RW-2) were installed on January 16 & 17, 2018.
 Weekly total phase extraction events were immediately initiated on these wells for recovery of free phase liquids and vapor recovery as interim remedial actions. Weekly vacuum events continued through February, with bi-weekly events taking place from March through May. Vacuum events were reduced to a monthly frequency beginning in June.
- A total of 25 soil samples were collected by Mountain Research from soil borings SB-1/MW-1, SB-2/MW-2, SB-3/MW-3, SB-4/MW-4, SB-5/MW-5, SB-6 through SB-11, SB-12/MW-6, SB-13/MW-7, SB-14/MW-8, SB-15/MW-4BR, SB-16/MW-2BR, SB-17/MW-9, and SB-18/MW-5BR in March 2018, July 2018, and October 2018.



1.0 EXECUTIVE SUMMARY (Continued)

- Based on analytical results from the soil boring investigation, soil immediately north (SB-9), soils to the south (SB-13), and soils to the southeast (SB-7) of the UST basin are impacted with unleaded gasoline constituents at concentrations exceeding the PADEP RUA MSCs, including 1,2,4-TMB, benzene, and toluene. The extents of soil impacts have been identified by additional soil borings with analytical results below PADEP RUA MSC's.
- In March and July 2018, monitoring wells MW-1 through MW-6 were installed throughout the property in an attempt to delineate groundwater impacts. No overburden aquifer has been identified beneath the property; therefore, all monitoring wells are installed in the first encountered shallow bedrock aquifer.
- Site characterization groundwater monitoring well analytical results confirmed the presence of petroleum constituents at concentrations exceeding the PADEP RUA MSCs for groundwater; the constituents include 1,2,4-TMB, 1,3,5-TMB, benzene, ethylbenzene, MTBE, naphthalene, toluene, and total xylenes.
- Currently, groundwater impacts exceeding the PADEP RUS MSCs are only bounded to the southern edge of the site, with exceedances being present in MW-1 through MW-4.
- Ecological receptor screening was performed; no ecological receptors were identified.
- Completion of an aquifer test and evaluation of data.
- Results of the screen for potential vapor intrusion supported further investigation through the installation and sampling of a sub-slab vapor point. Results of sub-slab vapor testing support that risk related to vapor intrusion of petroleum volatile organic compounds is acceptable.
- Additional characterization activities to be performed include:
 - Installation of additional monitoring wells for delineation of dissolved phase groundwater impacts.
 - Completion of a comprehensive aguifer test.
 - Completion of a site conceptual model.
 - Modeling of COC's fate and transport at the site.
 - Screening of potential vapor intrusion at the site.
 - Selection of a statewide health standard (SHS) and remedial options.
- Groundwater monitoring will continue on a quarterly basis until closure has been attained for a yet-to-be determined cleanup standard.



2.0 INTRODUCTION

Mountain Research LLC (Mountain Research) has been retained by Dave Panasiti, owner of Woodland Food & Fuel (aka Gio's BBQ) to complete interim remedial activities, and site characterization activities for the facility located in Bradford Township, Clearfield County, Pennsylvania. Based on discrepancies between tank volumes and sales records, followed by a visual investigation, a petroleum release was discovered on December 22, 2017, warranting a PADEP site characterization.

Site characterization activities were conducted in accordance with Title 25, Chapter 245, Administration of Storage Tanks and Spill Prevention Program, Subchapter D, Section 309. This characterization report is submitted in accordance with Section 310(c), SCR.

The following site characterization objectives have been initiated by Mountain Research to meet the regulations mentioned above:

- · Identify the extent of impacted soil.
- Identify the extent of impacted groundwater.
- Describe the study area geology, hydrogeology, aquifer characteristics, and physical parameters such that a remediation standard and strategy for the site can be selected.

The activities conducted at the subject property and used for characterization of the site to date, include the following:

- Geophysical survey of the site.
- Advancement of a total of 18 soil borings.
- Collection and analysis of a total of 25 soil samples from soil borings.
- Collection and geotechnical analysis of a soil sample.
- Installation of a total of two (3) overburden recovery wells.
- Installation of a total of three (3) overburden monitoring wells.
- Installation of a total of eleven (11) bedrock monitoring wells.
- Collection and analysis of groundwater samples from monitoring wells.
- Surveying the site infrastructure, soil borings, and monitoring wells.
- Measurement of groundwater elevations and deriving direction of groundwater flow and gradient from these measurements.
- Preliminary local water use assessment.
- Ecological Receptor Screening

Soil and groundwater analytical results are compared to the PADEP RUA MSCs throughout this report. The report develops site assumptions based on these comparisons as a starting point for remediation decision making.



2.1 Constituents of Concern

Soil samples have been analyzed for the following petroleum parameters; 1,2,4-TMB, 1,3,5-TMB, benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, and naphthalene. Based on analytical results, the following parameters have been identified at detectable levels in soil and are therefore identified as the COCs in soil: 1,2,4-TMB, 1,3,5-TMB, benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, and naphthalene.

Groundwater samples have been analyzed for the following petroleum parameters: 1,2,4-TMB, 1,3,5-TMB, benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, and naphthalene. Based on analytical results, the following parameters have been detected in groundwater, and are therefore identified as the COCs in groundwater: 1,2,4-TMB, 1,3,5-TMB, benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, and naphthalene.

2.2 Media of Concern

Soil and groundwater were identified to contain detectable concentrations of COCs and are therefore considered media of concern at the site.

2.3 Remediation Standard

The remediation standard goal for the property is the Pennsylvania Department of Environmental Protection Non-Residential Used Aquifer Statewide Health Standard (PADEP NRUA SHS for soil and groundwater.

3.0 SITE DESCRIPTION

The study area (Site) is a combination of two (2) separate parcels, both owned by Mr. Panasiti, totaling an approximate area of 2.5 acres. The site is located on the southeast corner of the intersection of state routes 322 (Woodland/Bigler Highway) and 970 (Shawville Highway). The site includes Woodland Food & Fuel, which is a combination of a restaurant (Gio's BBQ), convenience store, and service station, all located within a single building. The physical address is 2829 Woodland Bigler Highway, Bradford Township, Woodland, Pennsylvania, 16681. The Site is surrounded on three sides by state routes 322 and 970. To the east of the site is a large, gravel parking area used for overnight parking by commercial haulers. The Site is located in the northern edge of the USGS 7.5 Minute Series Wallaceton, PA Topographic Quadrangle at an approximate Latitude 40° 59' 58.2" North and Longitude 78° 20' 47.4" West. The property has an approximate elevation of 1610 feet above mean sea level.

Refer to Figure 1 (Site Location Map), Figure 2 (Site Map), and Figure 3 (Aerial Site Map). Refer to Figure 4 for a wide site aerial map that illustrates surrounding properties.



3.1 Historical Operations

Historically, the property has been utilized as a gasoline fueling station since 1987. The store has historically utilized USTs for the retail sale of unleaded gasoline and kerosene. The most recent USTs at the property included two (2) 8,000-gallon (Tank #001 and #002) unleaded gasoline tanks, one (1) 4,000-gallon (Tank #003) unleaded gasoline tank, and one (1) 4000-gallon (Tank #004) kerosene tank. These tanks are located to the northeast of the building. The tanks serve the associated four (4) fuel dispensers located immediately north of the building. Additionally, there is a kerosene dispenser at the northeast corner of the building. Refer to Figure 2 for tank and dispenser locations.

3.2 Current Operations

The site currently acts as a fuel service station, convenience store, and restaurant. All UST's and fuel dispensers currently remain in operation.

3.3 Site Features

The subject property currently contains one (1) permanent structure, Woodland Food & Fuel. The building is of two-story slab-on-grade construction. Surface areas of the property near the tank field and dispensers consist of paved areas, adjacent to gravel parking. Vegetated landscaping is present on the opposite sides of the building from the UST system and dispensers to the west and south. Refer to Figure 2 and Figure 3 for site features.

Land to the north of the site, across state route 322 is undeveloped, vegetated wood lands. To the west, across Shawville highway exists residential homes and a commercial property, Woodland Equipment & Supply. The land south, across state route 970 is undeveloped vegetated woodlands. Land to the east of the site consists of gravel parking area and undeveloped, vegetated wood lands. Refer to **Figure 2** for a map showing property boundaries.

3.3.1 Utilities

The following information regarding locations of underground utilities at the property has been obtained through site visits, supplier contacts, and a geophysical survey performed by THG Geophysics, Ltd. (THG):

- Water supply to the site is provided by the American Water Works Company, LLC.
 The water main runs parallel with both state route 322 (opposite side of the road)
 and along state route 970, where it follows the road west then south of the site.
 The lateral supplying service to the site runs perpendicular to 970 where it enters
 the property to the west of the building.
- Sanitary sewage to the site is provided by the Woodland Bigler Area Authority; the lateral line exits the building from the southern side, running west parallel to state route 970 where it enters the sanitary sewer main.



3.3.1 Utilities

- Electric service is provided by Penelec. The lines are overhead and enter the building from an electric pole located to the west side of the building.
- Underground tank monitoring equipment, and electrical lines run from the middle of the eastern side of the building, to the tank field and then to the dispenser islands.

Refer to Figure 5 for approximate utility locations.

4.0 RELEASE HISTORY

4.1 Dispenser Piping Release - October, 1996

A Notification of Reportable Release (NORR) / Notification of Contamination (NOC) form was submitted on behalf of the owner on October 8, 1996, indicated that a suspected release of unleaded gasoline occurred. During product piping upgrades near one of the dispenser islands, suspected contamination was encountered. *Underground Storage Tank System Closure Report Form (November 19, 1996)* – The reported was prepared by Perry Petroleum Equipment, Ltd. and noted a Change-In-Service for Tanks 001, 002, and 003.

Section II describes that, "Soils were excavated around piping. Soils were stockpiled and sampled due to unusual vapors...Lines were removed from the ground and replaced with APT double wall piping." Section VII states, "While removing an island, encountered unusual vapors beneath the island in the dispenser area. An estimated 40 tons of soil was stockpiled on plastic at the site and sampled." A Site Map is attached which shows the locations of three (3) soil samples (two (2) beneath lines, one (1) stockpile) which were collected on October 10, 1996. Chain of custody documents for ChemSpec Analytical Laboratories (Harrisburg, PA) are included which show volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) as the analytes. Various compounds were detected in the second soil sample and the stockpile sample but concentrations were apparently below regulatory limits at the time. No maps or additional documentation exist for this release. For documentation of the October 1996 release, refer to Appendix A.



4.2 Claim #2017-0178 - Compromised Functional Element - December 2017

In late December, 2017, a discrepancy between the volume of Super Grade unleaded gasoline required to fill Tank #003 and sales records prompted the owner to contract Bolger Brothers, Inc. to investigate a potential release. On December 22, 2017, Bolger Brothers staff encountered a failure of the functional element at the top of Tank #003. Product was being sprayed below grade surface (bgs) from the functional element into the tank backfill. Tank #003 was immediately shut down until a safety hazard evaluation and corrective measures could be taken. 9-1-1 and PADEP were immediately contacted. An Emergency Response Notification Report was submitted by Bolger Brothers, Inc. on behalf of the site owner. Refer to **Appendix B** for a copy of the Emergency Response Notification Report.

4.3 Type & Volume Of Regulated Substance Released

The released product consisted of super grade, unleaded gasoline. All released product infiltrated the UST backfill. In a comparison of tank volumes and sales records, its estimated that 1,000 gallons of unleaded gasoline were released in approximately a weeks' time frame.

4.4 Fire & Explosion Hazards

No fire and explosion hazards exist at the site.

4.5 Relocation of Affected Residents

Based on the nature of the impacts, relocation of affected residents was not deemed necessary.

4.6 Recovery of Free Product

Small amounts of free product were encountered during interim remedial actions; however, no free product was encountered during site characterization activities. Minimal amounts of free product were recovered during initial vacuum events and continued through passive recovery by utilizing absorbent booms within the recovery wells. Refer to **Figure 2** for recovery well locations.

4.7 Excavation of Impacted Soil

Unleaded gasoline impacts were encountered within pea gravel during an exploratory excavation along the eastern edge of the UST field. Suspected contaminated backfill material was removed and staged in covered roll-off containers for disposal by Bigler Boyz. An estimated 5 tons of impacted material was removed from the site for disposal. No additional soils were removed due to close proximity to the UST field. Refer to **Figure 2** for the excavation footprint.



4.8 Interim Remedial Action

Interim remedial activities began with excavation of a shallow (~3 ft.) trench along the eastern edge of the building in an attempt to mitigate vapors prior to entering the building via the building's concrete slab and associated backfill. Nuisance odors were reported by building occupants near the joint in the buildings slab between the original building's footprint and the concrete slab of an addition that was previously added to the building. PID readings near this joint were discovered by emergency responders in excess of 1,000 PPMv. By opening the trench, vapors ventilated to the atmosphere prior to entering the building. Nuisance odors and PID readings ceased once the trench was opened up. To further prevent nuisance odors or vapors from entering the building, a vapor mitigation system was installed within the building's concrete slab. A vacuum is applied to the subslab backfill within a stockroom area, near the building's slab joint, and ventilated to the atmosphere above the building's roofline. Vacuum is supplied by a regenerative blower. A PID reading collected on June 28, 2018 demonstrated a VOC concentration of 0.7 PPMv. Refer to Figure 2 for vapor mitigation trench location.

5.0 SOURCE OF PETROLEUM IMPACTS

Based on technician observations the source of unleaded gasoline release is confirmed to be a failed functional element associated with Tank #003.

5.1 Characteristics of Regulated Substance

Observations of the release indicate that the regulated substance released at the facility consists of unleaded gasoline. Analytical results from historical and recent soil boring samples indicate that 1,2,4-TMB, benzene, and toluene are the only COCs that have been detected at concentrations exceeding PADEP RUA MSCs for soil. Analytical results from recent groundwater samples indicate that 1,2,4-TMB, 1,3,5-TMB, benzene, ethylbenzene, cumene, MTBE, naphthalene, toluene, and total xylenes have been identified in groundwater at concentrations exceeding PADEP RUA groundwater MSCs. The characteristics of the aforementioned constituents are summarized in **Appendix C** (Characteristics of Regulated Substances). No historical analytical results from either soil or groundwater sampling are available.

6.0 WATER SUPPLIES

An Environmental Data Resources (EDR) report was reviewed to locate potential water supplies. The EDR report indicated that no water supply wells were identified within ½ of a mile of the property. Refer to **Appendix D** for the regulatory database report.

A review of the Pennsylvania Topographic and Geological Survey's, Pennsylvania Groundwater Information System (PaGWIS) was also completed to locate water supplies within ½ mile of the subject property. No wells were identified to be located within ½ mile of the property. Refer to Appendix E for a copy of the PaGWIS database listings.



6.1 Restore or Replacement of Affected Supplies

No supply wells were identified in the area so replacement and restoration of water supplies was not deemed necessary and were not performed at this time.

7.0 METHODS AND EQUIPMENT

In order to delineate the extent and magnitude of impacts at the site, Woodland Food & Fuel retained the services of Mountain Research in January 2018 to conduct a site characterization at the subject property. Site characterization activities were conducted from January 2018 through the present by Mountain Research. The following site characterization activities have been conducted:

- Installation of two (2) recovery wells adjacent to UST field.
- Advancement of a total of 18 soil borings.
- Collection and analysis of 25 soil samples from soil borings.
- Collection and geotechnical analysis of a soil sample.
- Installation of a total of three (3) overburden aguifer monitoring wells.
- Installation of a total of eleven (11) bedrock aquifer monitoring wells.
- · Surveying the site infrastructure and monitoring wells.
- · Collection and analysis of groundwater samples from monitoring wells.
- Measurement of groundwater elevations and deriving direction of groundwater flow and gradient from these measurements.
- Preliminary local water use assessment.
- Geophysical survey of the site.

Refer to Figure 2 (Site Map) for maps illustrating the soil boring and monitoring well locations. Field methods for drilling, soil logging description, well installation, soil screening, and groundwater sample collection are described in **Appendix F** (Field Methods).

7.1 Characterization Plans

The Health and Safety Plan for the site characterization and Quality Assurance / Quality Control Plan are available to the PADEP upon request.

7.2 Soil Borings

A total of 25 soil borings were advanced by Mountain Research at the property in an attempt to characterize soil at the site. Soil was visually inspected and scanned with a PID using the headspace method. One (1) soil sample was collected from each soil boring where the highest PID reading was encountered. If a specified interval of petroleum impacted soil was identified, a second sample was collected as deemed necessary to vertically delineate the overall thickness of petroleum impacted soils, if possible.

If no elevated organic vapor levels are measured along the length of a boring and no staining and / or odors are evident, the sample was obtained from the depth interval immediately above the soil/bedrock interface. The following subsections summarize soil boring advancement activities.



7.2.1 <u>March 2018 – Soil Borings SB-2/MW-2, SB-3/MW-3, SB-4/MW-4, and SB-6</u> through SB-9

Between March 6 and 12, 2018, Mountain Research installed a total of 7 soil borings (SB-2/MW-2, SB-3/MW-3, SB-4/MW-4, and SB-6 through SB-9) in locations surrounding the UST field in order to delineate soil impacts. Each soil boring was advanced to bedrock refusal utilizing direct push methods. Soil encountered during drilling activities consisted of clay, shale, coal and sandstone.

A total of 7 soil borings were installed with a total of 11 soil samples collected from those borings. Soil samples were collected at depths ranging from three and a half (3.5') to fifteen (15') feet bgs. Note that due to a lack of soil between the gravel parking and bedrock, no soil sample was collected from SB-1/MW-1. No saturation was encountered during soil boring installation activities.

All soils from soil borings were containerized in 55-gallon drums and transported offsite for disposal. Refer to **Appendix G** for disposal documentation. Refer to **Figure 2** for soil boring locations; geologic logs are included for reference in **Appendix H** (Geologic Logs).

7.2.2 July 2018 – Soil Borings SB-12/MW-5, SB-13/MW-6, SB-10, and SB-11
Based on the analytical results from the initial soil samples obtained during March 2018 soil boring installation (discussed in Section 7.2.1), additional soil borings SB-10 and SB-11 were installed on July 9, 2018 as required to delineate soil impacts. SB-5/MW-5 and SB-12/MW-6 were installed as a result of additional monitoring wells being required. Each soil boring was advanced to bedrock refusal utilizing direct push methods. Soil encountered during drilling activities consisted of silty clay.

A total of 4 soil borings were installed with a total of 8 soil samples collected from those borings. Soil samples were collected from SB-12/MW-5, SB-13/MW-6, SB-10, and SB-11. Soil samples were collected at depths ranging from two (2) to thirteen (13) feet bgs. No saturation was encountered during installation of additional soil borings.

All spoils from soil borings were containerized in 55-gallon drums and transported offsite for disposal. Refer to **Appendix G** for disposal documentation. Refer to **Figure 2** for soil boring locations; geologic logs are included for reference in **Appendix H**.

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7.2.3 October 2018 - Soil Borings SB-13/MW-7, SB-14/MW-8, SB-15/MW-4BR, SB-16/MW-2BR, SB-17/MW-9, and SB-18/MW-5BR

Based on the analytical results from the previous soil samples obtained during March and July 2018 soil boring installation (discussed in Section 7.2.1 & 7.2.2), additional soil borings SB-13/MW-7, SB-14/MW-8, SB-15/MW-4BR, SB-16/MW-2BR, SB-17/MW-9, and SB-18/MW-5BR were installed between October 25 and October 30, 2018 as required to delineate soil impacts. SB-13 through SB-18 were installed as a result of additional monitoring wells being required. Each soil boring was advanced to bedrock refusal utilizing direct push methods. Soil encountered during drilling activities consisted of silty clay, shale, sandstone and coal.

A total of 6 soil borings were installed with a total of 6 soil samples collected from those borings. A single soil samples was collected from each boring. Soil samples were collected at depths ranging from six (6) to nineteen (19) feet bgs. No saturation was encountered during installation of additional soil borings.

All spoils from soil borings were containerized in 55-gallon drums and transported offsite for disposal. Refer to **Appendix G** for disposal documentation. Refer to **Figure 2** for soil boring locations; geologic logs are included for reference in **Appendix H**.

7.2.4 Geotechnical Soil Sampling

In March 2018, one (1) geotechnical soil sample was collected from soil boring location SB-6, an undisturbed/non-impacted area of the property, to evaluate the geotechnical properties of the overburden soil identified at the site. The soil samples were collected from the depth interval of 10 to 12 feet bgs.

The sample was analyzed by Geotechnical Testing Services of Coraopolis, PA for field capacity, density, and bulk density. A sieve analysis was also conducted and subsequently used to obtain a laboratory determined USCS classification of the sampled overburden soils. Geotechnical soil sample location for SB-6 is illustrated on Figure 2. A copy of the geotechnical report is included as Appendix I (Geotechnical Laboratory Reports).

7.3 Monitoring Wells

During site characterization, a total of nine (9) shallow bedrock aquifer monitoring wells and five bedrock aquifer monitoring wells have been installed. The following subsections summarize monitoring well installation activities conducted at different stages of the project.



7.3.1 Monitoring Wells MW-1 through MW-4

Between March 7, 2018 and March 14, 2018, monitoring wells MW-1 through MW-4 were advanced in the vicinity of the UST field to delineate potential groundwater impacts. The two (2) inch diameter bedrock monitoring wells were installed using hollow stem auger drilled to refusal on bedrock to serve as overburden casing, then air rotary drilling methods to depths ranging between 24 and 36 feet bgs.

All spoils from monitoring well installations were containerized in 55-gallon drums and transported off-site for disposal. Refer to **Appendix G** for disposal documentation. Refer to **Figure 2** for monitoring well locations; geologic logs and well construction diagrams are included for reference in **Appendix H**.

7.3.2 Monitoring Wells MW-5 and MW-6

Based on the analytical results from groundwater samples obtained from monitoring wells MW-1 through MW-4 (further discussed in **Section 9.2.1**), additional monitoring wells MW-5 and MW-6 were installed July 13 and 14, 2018. In order to delineate the groundwater plume, MW-5 and MW-6 were installed side gradient and downgradient, respectively, based on the previous monitoring well groundwater impact isoconcentration contour and flow mapping. The two (2) inch diameter overburden monitoring wells were installed using hollow stem auger drilled to refusal on bedrock to serve as overburden casing, then air rotary drilling methods to depths of 40 feet bgs, each.

The locations of the monitoring wells are illustrated on Figure 2. Table 1 (Monitoring Well Construction Summary) summarizes the installation dates and monitoring well construction details. Well construction and geologic logs are contained in Appendix H. All spoils from monitoring well installations were containerized in 55-gallon drums and transported off-site for disposal. Refer to Appendix G for disposal documentation.

7.3.3 Monitoring Wells MW-7 through MW-9, MW-1BR through MW-5BR

Based on the analytical results from groundwater samples obtained from monitoring wells MW-1 through MW-6 (further discussed in **Section 7.2.1 & 7.2.2**), additional monitoring wells MW-7 through MW-9 and MW-1BR through MW-5BR were installed between October 26 and October 30, 2018. In order to delineate the overburden aquifer impacted groundwater plume, MW-7 through MW-9 were installed side gradient and downgradient, of previously identified groundwater flow directions and impacted groundwater plume locations. The two (2) inch diameter monitoring wells were installed using hollow stem auger techniques to refusal on bedrock.at depths of 11.7' (MW-7), 19' (MW-8) and 20.5' (MW-9).



7.3.3 Monitoring Wells MW-7 through MW-9, MW-1BR through MW-5BR (Continued)

In addition to the newly installed overburden monitoring wells, five (5) bedrock aquifer wells were installed (MW-1BR through MW-5BR). The bedrock aquifer monitoring wells were installed in locations selected to identify bedrock groundwater gradient and potential bedrock aquifer petroleum impacts, based on previous monitoring well groundwater impact isoconcentration contour and flow mapping. The two (2) inch diameter monitoring wells were installed using hollow stem auger drilled to refusal on bedrock to serve as overburden casing, then air rotary drilling methods to depths of 58.5' (MW-1BR), 58.5 (MW-2BR), 20.0 (MW-3BR), 70.5 (MW-4BR), 79.5 (MW-5BR).

The locations of the monitoring wells are illustrated on Figure 2. Table 1 (Monitoring Well Construction Summary) summarizes the installation dates and monitoring well construction details. Well construction and geologic logs are contained in Appendix H. All spoils from monitoring well installations were containerized in 55-gallon drums and transported off-site for disposal. Refer to Appendix G for disposal documentation.

7.4 Aquifer Testing

In order to assist in fate and transport analysis, a quantitative understanding of the hydraulic properties of the underlying aquifer was required. On November 27 and 28, 2018, falling head and rising head slug testing was performed on overburden monitoring wells MW-2, MW-3BR, and MW-4BR to determine specific aquifer characteristics of the groundwater within the shallow and deep aquifers. Prior to testing, transducers were placed in each monitoring well to collect measurements throughout each slug test to identify changing water levels over time.

7.4.1 Aguifer Test Results

The data gathered from each slug test was programmed into AQTESOLV for Windows (Version 3.5), along with individual monitoring well information to determine aquifer characteristics by the Bouwer and Rice Method (Bouwer and Rice, 1976). Refer to Appendix J for the slug test methods description, copies of the slug test data, corresponding displacement data, and displacement versus time graphs. Hydraulic conductivity values for the rising head slug tests are summarized in Table 2.

The Bouwer and Rice Method calculations yielded a hydraulic conductivity value of **0.136ft / day** for the **unconfined shallow** aquifer in the vicinity of the site. Using the values of hydraulic conductivity (K) and an aquifer thickness (b) of 9.50 feet, the calculated average transmissivity (T = Kb) is **1.30 ft² / day**.

The Bouwer and Rice Method calculations yielded an average hydraulic conductivity value of 0.085 ft / day for the confined shallow aquifer in the vicinity of the site. Using the values of hydraulic conductivity (K) and an average aquifer thickness (b) of 9.50 feet, the calculated average transmissivity (T = Kb) is 0.90 ft² / day.



7.5 Site Survey

On April 9, September 6, and December 7 of 2018, the subject property was surveyed by Geotec, Inc. of Hollidaysburg, Pennsylvania (Geotec). Geotec's land survey included property boundaries, roadways, infrastructure, soil boring locations, and the location and elevation of monitoring wells; all of the aforementioned features were illustrated on a base map, and incorporated into Site Map Figure 2.

7.6 Characterization and Disposal of Waste

Soil cutting generated during the advancement of soil borings and monitoring well installation activities were staged in 55-gallon steel drums on the subject property prior to being disposed of by Water Depot, Inc. on June 8, 2018. One (1) soil disposal sample was collected on April 16, 2018, to facilitate disposal of soil cuttings.

Because groundwater concentrations were not yet characterized, purge water produced during initial well development was drummed in (1) 55-gallon drum. This drum of purge water was evacuated by Water Depot, Inc. at the conclusion of an interim remedial vacuum event.

A copy of the soil and water disposal manifest is included as Appendix G.

7.7 Geophysical Survey

A geophysical survey was performed on the property to confirm the locations of known and USTs and utilities. In addition, the uncertain location of on-site underground utilities including the dispenser electric, water supply lines and sewage system within the drilling area required clarification. The geophysical survey was conducted by THG Geophysics, Ltd. on March 2, 2018. The geophysical survey consisted of a time domain electromagnetic (EM) and ground penetrating radar (GPR) surveys to identify unknown USTs, underground utilities, and/or other anomalies. The findings of the survey included three areas of interest. Figure 3 of Appendix L, Underground Storage Tank and Utility Survey identifies the areas in question. Although the three areas were designated as subsurface anomalies, none displayed the typical signature associated with a UST. It is believed that the areas are related to reinforced concrete (rebar) and buried debris.

8.0 SITE GEOLOGY

The site is situated within the Pittsburgh Low Plateau Section, Appalachian Plateaus Physiographic Province of Pennsylvania.

8.1 Local Soils

Based on information provided by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS), native soils at the property consist of Wharton silt loam, 3 to 8 percent slopes (WhB) and Wharton silt loam, 8 to 15 percent slopes (WhC). The Wharton silt loam consists of hillslopes that are moderately well-drained and low runoff. Refer to Appendix L for a copy of the soil survey.



8.1 Local Soils (Continued)

Based on Geotechnical results, the soil on the subject property is classified as silty clay with gravel and shale. Soil encountered during drilling activities consisted of mostly clay, and shale. Saturation was present in the overburden soils between 28-34 feet.

8.2 Bedrock Geology

Based on published geologic data, underlying bedrock at the site is classified as the Pennsylvanian Age Allegheny Group. The Allegheny Group consists of cyclic sequences of sandstone, shale, siltstone, claystone, limestone, coal and underclay. Bedding ranges from thin and fissile to massive and thick depending on rock type. Joint formation, spacing, and density are also dependent on rock type with joint patterns being locally very complex and irregular. Most joints are open and sub-vertical. Porosity is generally moderate in sandstone and low in other rock types. Permeability is also moderate to low. Occurrence of ground water is irregular due to the wide variability of rock types.

Refer to Figure 6 for a copy of the geologic map which depicts the subject property.

Figure 7 (Cross Section Location Map), Figure 8 (Cross Section A-A'), Figure 9 (Cross Section B-B'), and Figure 10 (Cross Section C-C'), are included to illustrate subject property. Refer to Appendix H for geologic logs.

A geophysical investigation was performed at the site in September, 2018. The investigation consisted of an electrical imaging survey, and a very low frequency electromagnetic survey. The surveys identified multiple potential fractures and previous excavations at the site. Refer to **Appendix M** for a copy of the geophysical survey.

8.3 Hydrogeology

Roaring Run, a tributary of Clearfield Creek which, is located approximately 1,500 feet to the south. Clearfield Creek flows northwest into the West Branch of the Susquehanna River. There are no other water bodies in the vicinity of the site. The property is located approximately 1614 feet above sea level and situated within the Pittsburgh Low Plateau Section within the Appalachian Plateaus physiographic providence. The topography of the subject property gently slopes to the south and east. Comparing soil boring logs, well logs and static water elevations, two zones have been identified within the aquifer. A shallow zone has been identified in MW-1 through MW-9, and MW-3BR. A deep zone has been identified from MW-1BR, MW-2BR, MW-4BR and MW-5BR.



8.3 Hydrogeology (Continued)

According to data obtained from groundwater sampling events conducted from March 2018 to April 2018, static water level measurements range from 16.60 feet below top of casing (btoc) at MW-1 and 33.50 feet btoc at MW-3. Calculated from the groundwater monitoring event on September 10, 2018 where all monitoring wells were gauged, the average groundwater gradient between monitoring wells MW-2 and MW-6 is 0.146 feet/foot, in a southeastern direction. Refer to **Figure 10** for an shallow groundwater aquifer elevation contour map.

Following the additional monitoring well installation, a groundwater monitoring event conducted in December 2018, static water level measurements range from 9.83 feet below top of casing (btoc) at MW-7 and 74.38 feet btoc at MW-5BR. Calculated from the groundwater monitoring event on December 13, 2018 where all monitoring wells were gauged, the average groundwater gradient for the shallow zone between monitoring wells MW-7 and MW-9 is 0.0899 feet/foot, in an eastern direction. The average groundwater gradient for the deep zone between monitoring wells MW-4BR and MW-5BR is 0.476 feet/foot in a northeastern direction. Refer to Figure 12 and Figure 13 for shallow and deep aquifer elevation contour maps, respectively.

Static groundwater level measurements are summarized in **Table 3** (Groundwater Elevation Summary).

9.0 ANALYTICAL RESULTS

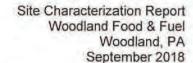
Soil and groundwater samples were analyzed using U.S. Environmental Protection Agency (USEPA) approved methods for the regulated substances related to the release of unleaded gasoline.

9.1 Soil Borings

A total of 25 soil borings were advanced at the property. Refer to **Figure 2** for soil boring and corresponding soil sample locations. The following subsections summarize soil sample analytical results.

9.1.1 Soil Boring Analytical Results

A total of 25 soil samples were collected from soil borings SB-1/MW-1, SB-2/MW-2, SB-3/MW-3, SB-4/MW-4, SB-5/MW-5, SB-6 through SB-11, SB-12/MW-6, SB-13/MW-7, SB-14/MW-8, SB-15/MW-4BR, SB-16/MW-2BR, SB-17/MW-9, and SB-18/MW-5BR in March 2018, July 2018, and October 2018. Soil samples were analyzed for 1,2,4-TMB, 1,3,5-TMB, benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, and naphthalene via EPA method 8260B. Analytical results identified the following constituents at concentrations above the PADEP RUA soil to groundwater MSCs for unsaturated soil: 1,2,4-TMB, benzene and toluene. Soil impacts were identified at six and a half (6.5) feet to seventeen feet (17') bgs within soil borings. Note that soil analytical data at SB-18 is not being included in this evaluation. SB-18 has been determined to be collected below the level of soil saturation. Due to SB-18's proximity to SB-17, SB-17's analytical analysis is believed to be an acceptable analysis of SB-18. Additionally, no soil sample was collected from the advancement of MW-3BR due to its proximity to MW-17, where SB-13 was advanced and analyzed.





9.1.1 Soil Boring Analytical Results (Continued)

The following table summarizes the constituents identified in soil at concentrations above each constituent's respective PADEP RUA soil to groundwater MSC.

COCs Exceeding PADEP RUA MSC	Soil Borings Containing COC Exceedance of PADEP RUA MSC
1,2,4-TMB	SB-9 (6.5'), SB-13 (9')
Benzene	SB-9 (6.5'), SB-7 (15')
Toluene	SB-9 (6.5')

Concentrations of remaining analyzed constituents were either below laboratory PQLs, or below PADEP RUA MSCs. Refer to **Appendix N** for soil sample laboratory analytical data reports, which is summarized in **Table 4**. Refer to **Appendix O** for isoconcentration maps of COC concentrations above PADEP RUA MSCs for soil.

9.2 Groundwater

9.2.1 Monitoring Well Analytical Results

Four (4) rounds of groundwater monitoring have been conducted at bedrock aquifer monitoring wells MW-1 through MW-4 in March, April, September, and November. Three (3) rounds of groundwater monitoring have been conducted at bedrock aquifer monitoring wells MW-5 and MW-6 in August, September, and November 2018. And two (2) rounds of groundwater monitoring were conducted at overburden aquifer monitoring wells MW-7 through MW-9, and bedrock aquifer wells MW-1BR through MW-5BR during November 2018. Groundwater samples were analyzed for 1,2,4-TMB, 1,3,5-TMB, benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, and naphthalene via EPA method 8260B.

The following table summarizes the constituents historically identified in groundwater at concentrations above each constituent's respective PADEP RUA MSC.

COCs Exceeding PADEP RUA MSC	Wells Containing COC Exceedance of PADEP RUA MSC
1,2,4-TMB	MW-1, MW-2, MW-3, MW-4, MW-7, MW-9, MW-3BR and MW-4BR
1,3,5-TMB	MW-3 and MW-4
Benzene	MW-1, MW-2, MW-3, MW-4, MW-7, MW-8, MW- 9, MW-3BR MW-4BR and MW-5BR
Ethylbenzene	MW-3, and MW-3BR
Cumene	MW-3,
MTBE	MW-2, MW-3, MW-4, and MW-8
Naphthalene	MW-3 and MW-3BR
Toluene	MW-3, MW-4, MW-3BR and MW-4BR
Total Xylenes	MW-3, and MW-3BR



9.2.1 Monitoring Well Analytical Results (Continued)

All constituents were detected in at least one well above PADEP RUA MSC. Refer to Appendix P (Laboratory Analytical Data Reports) for laboratory analytical data reports for groundwater. Groundwater analytical results obtained to the present are summarized in Table 5 (Groundwater Analytical Summary – Volatiles).

Based on the bedrock aquifer groundwater sampling events conducted in 2018, MW-1 through MW-4, MW-7 through MW-9, and MW-3BR through MW-5BR have all exhibited at least one COC above PADEP RUA MSC, with the highest concentrations of constituents identified above PADEP RUA MSCs being detected in monitoring wells MW-3, MW-4 and MW-3BR, which are situated down gradient and side gradient of the UST field, respectively.

As of the most recent groundwater sampling events (November 27, 2018 and December 6, 2018) multiple wells that initially exhibited groundwater COC above PADEP RUA MSC have now fallen below COC PADEP RUA MSC's. Wells still with COC's remaining above PADEP RUA MSC's include MW-3, MW-4, MW-7 through MW-9, MW-3BR through MW-5BR. Although MW-4 demonstrates exceedances, COC's have steadily fallen since the April sampling event. Not enough analytical data has been collected from MW-7 through MW-9, MW-1BR through MW-5BR to make an accurate assessment of COC concentration trends. MW-5 and MW-6 have remained consistent with no COC concentrations above laboratory detection limits. It should be noted that MW-2BR has not been sampled due to a lack of available water during the sampling events, so the deep aquifer data set is not complete. Refer to Appendix Q for groundwater isoconcentration maps of COC concentrations above PADEP RUA MSCs for groundwater.

10.0 VAPOR INTRUSION INTO BUILDINGS

Assessment of potential vapor intrusion exposure pathways is required under the SHS and SSS closure strategies. The January 2017 Land Recycling Program Technical Guidance Manual-Vapor Intrusion into Buildings (VIB) from Groundwater and Soil under Act 2 (the "VIB Guidance" or "document") must be followed to perform the vapor intrusion assessment for this site. Certain compounds typically associated with a release of petroleum products may represent a vapor intrusion concern even at concentrations in soil below RUA soil to groundwater pathway MSCs or in groundwater below RUA groundwater MSCs.

The document provides guidance in identifying potential vapor intrusion sources to current and future planned buildings and determining if additional vapor intrusion assessment, remedial actions, or mitigation is required to address Chapter 250 requirements.



10.1 Screening for Potential Vapor Intrusion Sources

To determine if potential vapor intrusion source(s) exist at the site, soil and groundwater sample point locations will be first screened against distance criteria. If soil and/or groundwater sample locations are identified within certain distances of a building and/or preferential pathway (underground utility), constituent concentrations from those sample locations will be compared to constituent and medium specific screening values for unleaded gasoline impacts.

10.1.1 Building Receptors

The nearest occupied building, serving as Woodland Food & Fuel, a convenience store and restaurant, is currently located approximately 30 lateral feet south east of the unleaded gasoline release area. The Woodland Food & Fuel building is constructed as single story, slab-on-grade. There are currently no plans for additional building construction at the site.

10.1.2 Underground Utilities

Underground utilities that are currently present at the site include; a sanitary sewer line, electric line, and natural gas line beneath the southern portion of the building (approximately three (3) to five (5) feet bgs.); and a municipal water line is located in the southwest portion of the building (approximately three (3) to five (5) feet bgs). Electric lines and the tank monitoring system run from the eastern side of the building to the tank field, and dispensers. These tank monitoring system utilities enter the building above surface grade, eliminating the potential of vapors entering the building at this location. Refer to **Figure 5** for utility locations.

10.1.3 Groundwater

Detectable concentrations of COCs (above and below their respective PADEP RUA groundwater MSC) have been identified in both the shallow and deep zones of the aquifer. During drilling activities, observed initial saturation within the shallow zone occurred at depths at or greater than 7 feet bgs. The highest groundwater elevations recorded in shallow zone monitoring wells range from 7.10 feet btoc at MW-7 to 15.90 feet btoc at MW-9. Shallow zone material consists of primarily clay, with weathered shale fragments and is considered "acceptable" for the occurrence of attenuation.



10.1.3 Groundwater (Continued)

Groundwater sampling locations were screened against proximity and/or separation distances of current building receptors and underground utility line locations at the site. The following proximity and separation distances were applied: 30 feet of horizontal separation and 5 feet of vertical separation. According to the VIB Guidance document, if either the horizontal or vertical proximity condition is met for proximity distance, no additional vapor intrusion evaluation is necessary. Similarly, a subsurface feature (underground utility) may be eliminated as a potential preferential pathway, if either the horizontal or the vertical separation distance criteria is met. Refer to Figures 14 for locations of groundwater sampling locations, the potential building receptors, current underground utility lines, and proximity/separation distance boundaries. Analytical results from the aforementioned groundwater sampling locations are summarized in Table 5.

Results of the distance screen for potential vapor intrusion sources in groundwater indicate that the following groundwater sample locations are within either the proximity distances for the building(s) and/or within the separation distance of a potential preferential pathway (current utility), and were therefore retained for further screening: MW-2, RW-2, MW-4, and MW-7. In all of these locations groundwater was not encountered in the shallow zone of the aquifer until depths greater than five (5') feet; therefore, the vertical separation and vertical proximity distances were exceeded. These groundwater sample locations do not require further evaluation

10.1.4 Soil

A comprehensive soil sample data set was used to identify potential soil sources for vapor intrusion. Soil sample locations range in depth from three and a half (3.5') feet bgs to fourteen and a half (14.5') feet bgs. Shallow zone material consists of clay with shale fractures and is considered "acceptable" for the occurrence of attenuation.

Soil sample locations were screened against proximity and/or separation distances of current building receptors and underground utility line locations at the site. Because SPL has not been identified during soil characterization, the following proximity and separation distances were applied: 30 feet of horizontal separation and five (5) feet of vertical separation. According to the VIB Guidance document, if either the horizontal or vertical proximity condition is met for proximity distance, no additional vapor intrusion evaluation is necessary. Similarly, a subsurface feature (underground utility) may be eliminated as a potential preferential pathway, if either the horizontal or the vertical separation distance criteria is met. Refer to Figure 2 for locations of soil borings, the potential building receptors, current underground utility lines, and proximity/separation distance boundaries. Analytical results from the aforementioned soil sample locations are summarized on Table 4.



10.1.4 Soil (Continued)

Results of the distance screen for potential vapor intrusion source locations in soil indicates that the following soil sample locations are within either the proximity distances for the building(s) and/or within the separation distance of a potential preferential pathway (current utility) therefore retained for further screening: MW-2/SB-2, MW-4/SB-4, MW-7/SB-13, and SB-6). Upon further evaluation, all soil samples were collected below the five (5') foot bgs depth threshold, eliminating all but MW-4/SB-4. Refer to Figure 14 for the retained soil sample locations determined to be located within proximity and/or separation distances of the building(s) and current utilities.

To determine if soil concentrations identified at MW-4/SB-4 represent potential vapor intrusion sources, each constituent was compared to the SHS residential vapor screening values. All MW-4/SB-4 soil analytical results were reported below residential vapor screening values under the SHS and are summarized on **Table 4.** Refer to **Appendix N** for soil sampling laboratory analytical data sheets.

Although no potential soil or groundwater vapor intrusion sources were identified within proximity distances, initial odors in the building immediately following the release prompted an evaluation of vapor conditions through alternate assessment options. For this reason the next step in the vapor intrusion assessment is to install and sample a sub slab vapor monitoring point. The evaluation is a precautionary measure and not required under January 2017 Land Recycling Program Technical Guidance Manual.

10.2 Quantitative Evaluation of Subsurface Soil Vapor Conditions

The following sections discuss the sampling activities associated with the quantitative investigation of the risk related to building vapor intrusion of VOCs. These activities and results of sampling are presented as a conservative assessment of the potential risk of exposure through vapor intrusion into the building, nearest to the groundwater source area.

10.2.1 Sub-Slab Soil Vapor Point Installation

One (1) sub-slab soil vapor monitoring point (SSVP-1) was installed at the site on December 11, 2018. The sub-slab soil vapor point SSVP-1 was installed through the concrete floor slab of the building. See **Figure 2** for the location of SSVP-1.

The sub-slab vapor sample point was installed by first creating a small borehole, using an electric hammer drill, to facilitate the insertion of the stainless steel vapor sampling point.

A one (1) inch diameter masonry drill bit was advanced to an approximate depth of one (1) inch into the concrete floor. This ensures that the sub-slab monitoring point is flush, or slightly recessed, with respect to the floor surface. A 3/8 inch diameter drill bit was then advanced through the remaining portion of the concrete floor, and approximately three (3) inches, and approximately one (1) inch into the sub-slab material to create an open cavity. Stainless steel tubing of ½ inch in diameter and four (4) inches in length into the void to serve as the vapor probe.



10.2.1 Sub-Slab Soil Vapor Point Installation (Continued)

The vapor probe was installed flush to slightly recessed, with respect to floor level, and a non-volatile hydraulic concrete was used to seal the remaining annular space. The sampling point was equipped with a threaded fitting, positioned at grade, to create a seal to optimally reduce ambient air infiltration during sampling and between sampling events.

10.2.2 Sub-Slab Soil Vapor Point Integrity Testing

Prior to sampling activities, Mountain Research performed an integrity test on SSVP-1, as well as collecting a grab sample of soil gas from the vapor mitigation system installed during remedial activities. Methodology used in soil gas sample point integrity testing by use of a tracer gas has been based upon suggestions presented within the VIB Guidance. Soil vapor sampling points are tested individually prior to sampling for adequate seal as a quality assurance / control measure. An adequate seal is required for accurate sampling to ensure surface air is not being drawn into the subsurface during the collection of a soil vapor sample. Mountain Research uses laboratory grade helium as a tracer gas for testing soil vapor sampling points due to its compatibility with a wide range of compounds, availability and ability to be monitored with hand held detectors.

The soil vapor sample point cap is opened and tubing is connected to the vapor point in a "T shape", one half of which is then connected to a laboratory certified six (6) liter Summa canister. The canister and sample tubing are covered by a plastic shroud. The shroud is then filled with "party-grade" helium. Before performing the integrity test, the helium concentration inside of the shroud is tested using a hand held helium detector to ensure the atmosphere is saturated with helium gas. The concentration of helium within the shroud is recorded.

After a helium saturated environment is created within the shroud, soil vapor is drawn from the sample point using an electric pump. The soil vapor is purged at a rate of approximately 100 milliliters per minute for five (5) minutes. In order to pass the integrity test, the helium concentration in soil vapor must be <5% of the helium content in the shroud.

If the test passes, vapor sampling will commence.

10.2.2.1 Integrity Testing Results: December 11, 2018

On December 11, 2018, one (1) integrity test was performed on SSVP-1. Helium concentrations for the integrity test were detected at levels below 5% of the original helium concentrations within the shroud. Therefore, the structural integrity was deemed satisfactory for the sub-slab vapor monitoring point. A summary of the helium tracer gas testing results is provided within **Table 6.**



10.2.3 Soil Vapor Sampling and Analytical Results

Sub-slab soil vapor sampling was conducted on December 11, 2018. Prior to sampling, a minimum of three (3) volumes of air were purged from the sample point and line. The vapor samples were collected in laboratory prepared Summa© canisters. The canisters were fitted with a laboratory calibrated regulator to allow for a thirty (30) minute draw. The samples were analyzed a National Environmental Laboratory Accreditation Conference certified laboratory for 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, and naphthalene via EPA method TO-15. During the December 11, 2018 sampling event, one (1) duplicate sample was collected from SSVP-1 for QA/QC purposes.

The December 11, 2018 analytical results demonstrated all COC below laboratory detection limits within the SSVP-1 sample. The vapor mitigation grab-sample analytical results detected benzene, ethylbenzene, cumene, toluene 1,3,5-trimethylbenzene and total xylenes within the vapor stream. Only benzene exceeded Residential Sub-Slab Soil Gas Statewide Health Standard Vapor Intrusion Screening Values, however, the benzene concentration was below the respective PADEP VIB Guidance Non-Residential Sub-Slab Soil Gas Statewide Health Standard Vapor Intrusion Screening Values (Table 4). It is anticipated that benzene concentrations within the soil gas will decrease during site remediation, and future sampling will be performed to evaluate COC concentrations. Based on the December 11, 2018 sub-slab soil vapor analytical results, and the non-residential use of the property, current or future risk of vapor intrusion related to the current commercial building at the Property is acceptable.

Refer to Appendix R for the analytical laboratory reports for the soil vapor samples which are summarized in Table 7.

11.0 SITE CONCEPTUAL MODEL

The analytical results from soil and groundwater samples collected during site characterization activities indicate that petroleum hydrocarbon constituents typically associated with a release of unleaded gasoline are present at concentrations exceeding the current PADEP RUA MSCs. The nature and extent of the unleaded gasoline and potential migration pathways were evaluated through the comparison of current soil and groundwater analytical data in relation to the geologic and hydrogeologic settings of the facility. The conceptual site model (CSM) developed from the evaluation is discussed in the following sections.

11.1 Aquifer System

Overburden soil extends to depths ranging between five (5) and 20.5 feet bgs where shale bedrock with intermittent coal seams are encountered. Overburden material consists of clay, silty clay, sandy clay, sand and sandstone cobbles.

A shallow unconfined aquifer was identified in the overburden. Wells MW-1 through MW-9 and MW-3BR represent the shallow aquifer monitoring well set. Static water levels observed in in the shallow aquifer are at depths ranging from 7.10 feet btoc MW-7 and 34.21 feet btoc at MW-2.



11.1 Aguifer System (Continued)

A deep aquifer was identified in the shale bedrock. Wells MW-1BR, MW-2BR, MW-4BR and MW-5 BR represent the deep aquifer monitoring well set. Static water levels observed in the deep aquifer are at depths ranging from 47.50 feet btoc MW-1BR and 75.50 feet btoc at MW-5BR.

Groundwater on the subject property in the shallow aquifer flows in an east/southeasteryy direction with a southeasterly component near the southern border of the site. The average groundwater gradient between monitoring wells MW-2 and MW-6 is 0.146 feet/foot.

Groundwater in the deep aquifer appears to flow in a northeasterly direction. The average groundwater gradient for the deep zone between monitoring wells MW-4BR and MW-5BR is 0.476 feet/foot.

Refer to Figure 11, Figure 12 and Figure 13 for shallow and deep aquifer elevation contour maps.

11.2 Source Area and Contaminants of Concern

The release occurred when a leak from the functional element on the top of tank 003 occurred. No spill containment was located in the area and gasoline quickly infiltrated into backfill material in the UST basin found to the east of the subject property building and canopy.

Three (3) 4,000-gallon unleaded gasoline tanks and the associated product lines and dispensers, installed on the property in May 1996, were removed from the property. Soils uncovered beneath the dispenser islands and product line trenches, and along the UST basin were noted to be visually impacted during UST removal, with elevated PID responses up to 1,320 ppm were observed in soils beneath the dispensers and product lines. No obvious free product or sheen was observed on the water surface with in the UST field; however, there was perched water encountered below the product lines and dispensers with obvious free product and sheen. The impacts beneath the unleaded gasoline dispensers appeared to have originated from the dispensing equipment at both fuel islands; however, no visible leak was observed during dispenser removal, only staining, odor, and product.

During UST closure activities associated with the Bill's Service operations, one (1) 1,000 gallon previously unknown, unregistered used motor oil UST was discovered beneath Dispenser #3. The tank contained approximately four (4) inches of used motor oil. The tank was registered with PADEP and closed by removal on August 18, 2015.



11.2 Source Area and Contaminants of Concern (Continued)

During UST closure, two (2) UST basin soil sidewall closure samples were collected on July 23, 2015. Out of the two (2) UST basin soil samples, one sample (UST Field Soil -1) exceeded the PADEP RUA MSCs for 1,2,4-TMB, 1,3,5-TMB, and benzene. Two (2) UST basin water closure samples were collected on July 23 and July 24, 2015. Out of the two (2) UST basin closure water samples collected, one sample (UST Field Water-2) exceeded the PADEP RUA SHS for 1,2,4-TMB, 1,3,5-TMB, benzene, and toluene. Five (5) dispenser soil samples (DISP-1 through DISP-5) and two (2) product piping soil samples (LINE-1 and LINE-2) were collected on July 27, 2015. DISP-1 (1.5') exceeded the PADEP RUA SHS for 1,2,4-TMB and 1,3,5-TMB. DISP-2 (2.5') exceeded the PADEP RUA SHS for 1,3,5-TMB and naphthalene. DISP-4 (2.5') and LINE-1 (1.5') exceeded the PADEP RUA SHS for benzene. The remaining unleaded gasoline UST closure samples associated with the Bill's Service operations were detected at concentrations below the PADEP RUA MSCs or below laboratory PQLs for all constituents.

Two (2) used motor oil UST basin soil sidewall closure samples and two (2) used motor oil UST basin water closure samples were collected on August 18, 2015. Both soil samples (Ghost Tank - 1 and Ghost Tank - 2) exceeded the PADEP RUA SHS for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, and chrysene. Used motor oil UST basin water closure samples exceeded the PADEP RUA SHS for 1,2,4-TMB, 1,3,5-TMB, benzene, MTBE, and naphthalene. Due to the bottleware error, Mountain Research returned to the site on August 28, 2015 to collected additional water samples for remaining semivolatile parameters of the PADEP shortlist of used motor oil compounds. The two (2) samples were collected from saturated backfill material near the previous water sample locations. Water sample EW-2 corresponds to Ghost Tank Water – 1 and water sample EW-1 corresponds to Ghost Tank Water – 2. Both water samples (EW-1 and EW-2) exceeded the PADEP RUA SHS for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, and indeno(1,2,3-cd)pyrene.

Based on analytical results from unleaded gasoline UST system closure and the soil boring investigation, soil in the vicinity of the former dispenser islands, UST basin, and product line trenches were impacted with unleaded gasoline constituents at concentrations exceeding the PADEP RUA MSCs, including 1,2,4-TMB, benzene, MTBE, and naphthalene. Therefore, the unleaded gasoline COCs are considered 1,2,4-TMB, benzene, MTBE, and naphthalene.

Based on the used motor oil UST closure samples and soil boring samples analyzed for used motor oil parameters, no soil has been identified at concentrations exceeding the PADEP RUA MSCs for used motor oil parameters. During site characterization, all groundwater samples were below the PADEP RUA MSCs for used motor oil parameters; however, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, and indeno(1,2,3-cd)pyrene exceeded the PADEP RUA SHS for groundwater in UST closure samples; therefore, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, and indeno(1,2,3-cd)pyrene are considered COCs for used motor oil.



11.3 Groundwater Flow and Constituent of Concern Migration

COC migration in both aquifers occurs via advective and diffusion transport. Advective transport is a process where dissolved phase contaminants are carried through an aquifer at a velocity proportional to groundwater flow in the same direction as the groundwater gradient. Diffusion is a process where dissolved phase contaminants move from areas of higher concentration to areas of lower concentration.

It appears advective transport is the primary mechanism for COC migration in the shallow aquifer as evidenced by the high concentrations apparent in MW-3 located directly down gradient of the release point in the UST basin.

COC Migration appears to be influenced by diffusion in the interpreted northeast trending fractures (Appendix ?). This is evidenced by the detection of COCs in monitoring wells MW-4BR and MW-5BR located laterally from the source with respect to the deep groundwater apparent direction of flow. Refer to **Appendix Q** for groundwater isoconcentration maps illustrating the extent of dissolved phase constituent concentrations in excess of the PADEP RUA groundwater MSC during the groundwater sampling events.

12.0 PETROLEUM IMPACTED GROUNDWATER FATE AND TRANSPORT MODELING

Qualitative Fate and Transport is discussed below for the shallow and deep aquifers. A quantitative fate and transport model will be produced for evaluating the transport of dissolved phase COCs within the aquifers at a later date. At this point, an insufficient data set is not available for proper computer modeling of fate and transport. Quantitative model results will be included in the Remedial Action Plan.

12.1 Qualitative Fate and Transport Discussion

As described in **Section 11.3**, the transport of dissolved phase groundwater impacts is predominately controlled by advective and diffusion transport along groundwater flow direction and gradient.

Constituents 1,2,4-TMB, 1,3,5-TMB, benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, and naphthalene have been identified in the shallow aquifer at concentrations exceeding the PADEP RUA groundwater MSCs. The fate and transport of these compounds are controlled by their specific chemical characteristic and by the characteristics of the aquifer. Migration of these COCs is primarily in the apparent direction of groundwater flow. Currently the COCs have migrated to the east/southeast as far as MW-8. Water quality in MW-5 and MW-6 is currently not impacted with the target COCs.

Constituents 1,2,4-TMB, benzene, and toluene in the deep aquifer at concentrations exceeding the PADEP RUA groundwater MSCs. Migration of these COCs is appears to be through diffusion with in the interpreted fractures and does not appear to follow the apparent direction flow. Currently the COCs have migrated to the east/southeast as far as MW-4BR and MW-5BR. It should be noted that MW-2BR has not been sampled due to a lack of available water during the sampling events so the deep aquifer data set is not compete.



12.1 Qualitative Fate and Transport Discussion (Continued)

Additional wells to the east of the UST basin and along the southern property border are necessary to complete characterization.

Dissolved phase COCs will likely continue to migrate in a east/southeasterly direction. along with the gradient. The migration of COCs may be inhibited due to natural attenuation and influenced by fracture flow conditions; however, several additional observations should be noted:

- Dissolved phase concentrations within the source area (MW-3 and MW-4) have generally decreased since commencement of groundwater sampling. The decrease is likely from the interim remedial actions.
- An initial qualitative review of plume stability based on source and periphery wells indicates decreasing concentrations in the source area and increasing concentrations in side and downgradient periphery wells, which could be indicative plume instability.
- COCs in the shallow aquifer are of higher concentration than in the deep aquifer.

The property line at the time of release is considered the point of compliance (POC). The following monitoring wells are considered POC wells: MW-1, M-1BR, MW-5, and MW-6. The Horizontal delineation is reasonably complete for the shallow aquifer. Horizontal delineation of the deep aquifer is reasonably complete to the south and northeast. Additional horizontal delineation is required to the north/northeast onsite. Vertical delineation of dissolved phase concentrations is incomplete. Mountain Research believes additional dissolved phase horizontal and verticle delineation is required at this time.

13.0 ECOLOGICAL RECEPTOR EVALUATION

Guidance under Title 25 §250.311 (Evaluation of Ecological Receptors) was followed for purposes of assessing potential impacts to ecological receptor(s) as a result of petroleum impacted soil and groundwater at the property. Direct impacts to the following receptors are considered when following the screening process provided within the guidance:

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



13.1 Receptor Identification

The following subsections describe methods used to identify potential receptors as part of the ecological receptor evaluation for the property. It should be noted that the entire site or area of concern based upon site characterization was considered in this assessment.

PNDI Search and Results

The Pennsylvania Natural Diversity Inventory Environmental Review Tool (PNDI ER Tool) was used to identify threatened, endangered or special concern species or special concern resources at the site. In terms of this assessment, the PNDI ER Tool was used to identify potential ecological receptors specified under item 1, 2 and 3 as listed above.

A copy of the PNDI search results is included for reference as **Appendix S** (PNDI Environmental Review Receipt). Results of the search identified no known impact to an endangered or threatened species. Because Mountain Research uses the PNDI database only as a tool to identify whether or not threatened, endangered, or special concern species have been identified in the area of concern, further investigation into the specific species of concern was not performed.

13.2 Exceptional Value Wetlands

The receptor assessment performed to identify exceptional value wetlands follows judgment outlined within Title 25 § 105.17 which define exceptional value wetlands as wetlands that exhibit one (1) or more of the following characteristics;

- i. Wetlands which serve as habitat for fauna or flora listed as "threatened" or "endangered" under the Endangered Species Act of 1973 (7 U.S.C.A. § 136; 16 U.S.C.A. § § 4601-9, 460k-1, 668dd, 715i, 715a, 1362, 1371, 1372, 1402 and 1531—1543), the Wild Resource Conservation Act (32 P. S. § § 5301—5314), 30 Pa.C.S. (relating to the Fish and Boat Code) or 34 Pa.C.S. (relating to the Game and Wildlife Code).
- ii. Wetlands that are hydrogeologically connected to or located within 1/2-mile of wetlands identified under subparagraph (i) and that maintain the habitat of the threatened or endangered species within the wetland identified under subparagraph (i).
- wetlands that are located in or along the floodplain of the reach of a wild trout stream or waters listed as exceptional value under Chapter 93 (relating to water quality standards) and the floodplain of streams tributary thereto, or wetlands within the corridor of a watercourse or body of water that has been designated as a National wild or scenic river in accordance with the Wild and Scenic Rivers Act of 1968 (16 U.S.C.A. §§ 1271—1287) or designated as wild or scenic under the Pennsylvania Scenic Rivers Act (32 P. S. §§ 820.21—820.29).



13.2 Exceptional Value Wetlands (Continued)

- iv. Wetlands located along an existing public or private drinking water supply, including both surface water and groundwater sources, that maintain the quality or quantity of the drinking water supply.
- v. Wetlands located in areas designated by the Department as "natural" or "wild" areas within State forest or park lands, wetlands located in areas designated as Federal wilderness areas under the Wilderness Act (16 U.S.C.A. § § 1131—1136) or the Federal Eastern Wilderness Act of 1975 (16 U.S.C.A. § 1132) or wetlands located in areas designated as National natural landmarks by the Secretary of the Interior under the Historic Sites Act of 1935 (16 U.S.C.A. § § 461—467).

Characteristics of the property were considered against those characteristics which define exceptional value wetlands, as referenced above. Results of this assessment are discussed below, addressing each characteristic above in respective order.

 Characteristics (i) and (ii): Results of the PNDI search indicate that the site region is not known to support an endangered or threatened species.

Characteristic (iii): The closest surface water body to the property is Roaring Run, located approximately 0.25 miles south of the property, which joins Clearfield Creek approximately 3.5 miles downstream.

- The Pennsylvania Fish and Boat Commission Class A Wild Trout Waters list (created December 16, 2013) was referenced to identify surface waters that support a population of natural trout. Neither Roaring Run nor Clearfield Creek are listed as Class A Wild Trout Waters.
- Title 25 Chapter 93 was referenced to identify surface waters of exceptional value. Roaring Run and Clearfield Creek are not listed as exceptional value surface waters.
- Roaring Run and Clearfield Creek are not listed as a National wild or scenic river under the National Wild and Scenic Rivers System database for Pennsylvania¹.

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Source: National Wild and Scenic Rivers System website; http://www.rivers.gov/map.php.



13.2 Exceptional Value Wetlands (Continued)

 Roaring Run and Clearfield Creek are not classified as wild or scenic under the Pennsylvania Scenic Rivers Act².

Characteristic (iv): There are no potable water supply wells within 0.5 miles of the property.

Characteristic (v):

The property does not lie within State Forest or park lands.

- The property does not lie within an area designated as a Federal Wilderness Area under the Wilderness Act or the Federal Eastern Wilderness Act.
- The property does not lie within an area designated as a National Natural Landmark by the Secretary of the Interior under the Historic Sites Act of 1935.

Based upon the results above, it is unlikely an exceptional quality wetland would be defined at the property.

In summary, it is unlikely that an exceptional value wetland would be defined within the property based upon property characteristics and following classifications listed within the regulatory definition of an exceptional value wetland. Therefore, the probability of impact to an exceptional value wetland is considered negligible.

13.3 Ecological Screening Guidance

The guidance states the following must be considered to address potential impact(s) to ecological receptors. If any of the following criteria are met, no additional evaluation into ecological receptor impact(s) is required;

- Jet fuel, gasoline, kerosene, #2 fuel oil or diesel fuel are the only constituents detected onsite.
- The area of contaminated soil is less than two (2) acres and the area of contaminated sediment is less than 1,000 square feet.
- The site has features such as buildings, parking lots consisting of gavel or pavement areas, which would obviously eliminate the specific exposure pathways, such as soil exposure.

² Source: Pennsylvania Department of Conservation and Natural Resources website; http://www.dcnr.state.pa.us/brc/conservation/rivers/scenicrivers/index.htm.



13.3 Ecological Screening Guidance (Continued)

The site meets the criteria contained the ecological screening guidance.

The screening criteria has been met because the only constituents detected on-site are due to a release of unleaded gasoline; additional evaluation into ecological receptor impact(s) is not required.

14.0 CHARACTERIZATION OBJECTIVES

Characterization activities continue, as of the creation of this document. The following site characterization objectives have been developed for site characterization:

- Identify the extent of impacted groundwater and soils
- Describe study area geology, hydrogeology, aquifer characteristics, and physical parameters such that a remediation standard and strategy for the site may be selected
- Development of a site conceptual model from which the fate and transport of contaminants may be evaluated by modeling or analysis
- Investigate groundwater supplies on the subject property and surrounding properties
- Evaluate VIB
- Evaluate the potential for ecological receptor exposure pathways

14.1 Characterization Progress

Based on site characterization activities, the following progress has been made:

- A total of 11 soil borings have been advanced by Mountain Research at the property in order to begin characterization of the site. Note: soil samples were not collected from SB-1/MW-1 due to lack of soil between the bottom of sub base and bedrock. A total of 19 soil samples were collected from soil borings SB-2/MW-2, SB-3/MW-3, SB-4/MW-4, SB-5/MW-5, SB-10/MW-6, SB-7 through SB-9, SB-11 and SB-12 in March 2018, and July 2018.
- Based on analytical results from the soil boring investigation, soils to the north and southeast of the UST field are impacted with unleaded gasoline constituents at concentrations exceeding the PADEP RUA MSCs, including 1,2,4-TMB, benzene, and toluene.
- In March and July 2018, monitoring wells MW-1 through MW-6 were installed throughout the property in an attempt to delineate groundwater impacts. No overburden aquifer has been identified beneath the property; therefore, all monitoring wells are installed in the first encountered shallow bedrock aquifer.



14.1 Characterization Progress (Continued)

- Three (3) rounds of groundwater monitoring have been conducted at monitoring wells MW-1 through MW-4 in March, April, and September, 2018. Two (2) rounds of groundwater monitoring have been conducted at monitoring wells MW-5 and MW-6 in August and September, 2018. Site characterization groundwater monitoring well analytical results confirmed the presence of petroleum constituents at concentrations exceeding the PADEP RUA MSCs for groundwater; the constituents include 1,2,4-TMB, 1,3,5-TMB, benzene, ethylbenzene, cumene, MTBE, naphthalene, toluene, total xylenes.
- The identified dissolved phase COC plumes exceeding the PADEP RUA MSC is only delineated to the south of the property.
- · At this point, no vapor intrusion characterization actions have been taken.
- Ecological receptor screening was performed; no ecological receptors were identified.
- At this point, no initial quantitative fate or transport modeling has been completed.
- At this point, no remedial strategy has been selected.

14.2 Description of Further Site Characterization Needed

The following activities are recommended to fully characterize the site and develop a better understanding of site conditions:

- Obtain groundwater samples from MW-2BR when conditions permit.
- Installation of five (5) additional deep aquifer groundwater monitoring wells to fully delineate dissolved phase impacted groundwater plume. Future deep bedrock monitoring well locations are proposed on Figure 15.
- Complete quantitative fate and transport modeling.
- Update preliminary conceptual site model with new data.

Any additional characterization activities will be documented in a subsequent Site Characterization Amendment, Remedial Action Plan (RAP) or Remedial Action Progress Reports (RAPRs).

14.3 PADEP Requests and Acknowledgements

No PADEP requests or acknowledgements are included at this time.



15.0 SELECTION OF A REMEDIAL STANDARD

The remediation standard goal for the property is the SHS for soil and groundwater. The property usage is currently commercial and expected to remain commercial in the foreseeable future.

16.0 REMEDIAL ACTION OPTION EVALUATION

The following remedial technologies or approaches were considered for this Site:

- No Remediation
- Groundwater Extraction and Treatment
- Air Sparge/Soil Vapor Extraction (SVE)
- Ozone Injection/SVE
- Vacuum Enhanced Groundwater Extraction (VEGE)
- Risk Based closure having limited active remediation

Although each of the technologies could be applied to the Site, several technologies were considered inappropriate. The following is an evaluation of each technique.

No Remediation

No active remediation is not considered a viable remedial approach. Concentrations of 1,2,4-TMB, 1,3,5-TMB, benzene, ethylbenzene, MTBE, naphthalene, toluene, and total xylenes exist in both the shallow and deep zones of groundwater above PADEP RUA groundwater MSCs. 1,2,4-TMB, benzene, and toluene exist in on-site soils above PADEP RUA soil MSCs. Without remediation there is possibility for the migration of groundwater or soil impacts off site.

Groundwater Extraction and Treatment

Groundwater extraction and treatment remediation involves the extraction of groundwater from dedicated extraction wells, treatment of the extracted water to remove contaminants and lastly the permitted discharge of the treated water. In some cases, groundwater extraction systems have required extensive time to reach remedial goals. The large time requirements are a function of organic contaminants attenuating to soils. The partitioning of organic contaminants from the soil to groundwater where it can be removed from the subsurface is a relatively slow process. Hence, remediation times are typically long.

Given the relatively low hydraulic conductivity at the site, groundwater extraction rates will be low, and groundwater extraction will not treat impacted soils on site.

It should be noted that a public sewer system is available at the Site for discharge of treated water. However, permission may for discharge to the public sewer may not be permitted. If this is the case, alternative means for treated water discharge (PADEP National Pollutant Discharge Permit, reinjection, containment and off-Site management) would need to be explored.



16.0 REMEDIAL ACTION OPTION EVALUATION (Continued)

Air Sparge/SVE

Air sparge involves pumping air into a saturated, contaminated formation. Dissolved contaminants transfer to air bubbles in accordance with Henry's law. The air bubbles then move upward to the vadose zone where the contaminant vapor is transferred to the unsaturated soils. The contaminants are then recovered from the subsurface using a soil vapor extraction system to remove the contaminant vapor from the Site and prevent potential vapor intrusion into nearby structures.

Advantages

- Raises dissolved oxygen levels in the groundwater, giving the technology an added bioenhancement component.
- Pure oxygen can be fed into the air stream, possibly further enhancing the biodegradation component.
- Relatively low capitalization and operations and maintenance (O&M) costs.

Disadvantages

- Best suited for coarser grained soils; the Site soils are relatively fined grained.
- Air tends to form channels as it rises through the saturated column, diminishing surface area contact with contaminated groundwater.
- Generally not suitable for fractured bedrock due to limited radius bubbles will disperse.
- Technology can potentially induce vapor intrusion into buildings creating exposure concerns.

Ozone Oxidation

Ozone oxidation is a relatively unstable, highly reactive compound that is used to destroy contaminants by oxidation. The ozone is typically sparged into the subsurface in a gas phase in a manner similar to air sparge, although some applications have used ozone dissolved in injected water. As with air sparge, dissolved contaminants transfer to the ozone bubbles in accordance with Henry's law. However, as opposed to air sparge, the contaminant is then rapidly oxidized in the ozone bubble.

Advantages

- Has advantages similar to air sparge.
- Residual oxygen from the oxidation reaction promotes bioremediation.
- Requires significantly lower flow rates than air sparge, leading to less potential of groundwater mounding.

Disadvantages

- Has similar disadvantages as air sparge.
- Ozone generation requires additional equipment, as opposed to sparging atmospheric air. An ozone generator is a significant expense.



16.0 REMEDIAL ACTION OPTION EVALUATION (Continued)

Ozone Oxidation (Continued)

- Ozone is a strong oxidant, and may have a corrosive effect on nearby subsurface utility infrastructure. Of particular concern is the tank field equipment. A SVE component will be required for this particular site.
- Potential for ozone to intrude indoor spaces creating an exposure concern.

Vacuum Enhanced Groundwater Extraction

Vacuum Enhanced Groundwater Extraction (VEGE) is a process that includes a vapor system applying a vacuum to groundwater extraction wells to increase the yield of the groundwater extraction well, in either deep or shallow zone. VEGE is typically used in areas of groundwater contamination with wells that produce a limited volume of water. For these reasons a VEGE system is a viable remediation option for this site, given the low hydraulic conductivity. A byproduct of the vacuum application on the aquifer is removal of soil vapor, for remediation of shallow zone soil impacts.

Risk Based Closure

Risk based closure or SSS includes the identification of impacts and the current and future risks that the impacts may pose to human health and the environment. Once an exposure risk is identified, the pathway to a receptor may be eliminated through institutional or engineering controls. Institutional and engineering controls would be implemented by placing an activity use limitation in the form of an environmental covenant on the property deed that follows through to all property ownership requiring controls to limit exposure pathways. A risk based closure may be obtained in a relatively short period of time and with relatively low capital costs.

Risk based closure is not currently a viable remedial option because SHS closure is being sought.

17.0 INITIAL PROPOSED REMEDIAL ACTION

Based on the current understanding of the site and the need for additional site characterization activities, a preliminary remedial strategy is being evaluated. The preliminary proposed strategy to obtain site closure/relief of liability under the PADEP SHS consists of active groundwater and soil remediation via VEGE technologies. Feasibility testing will be conducted at the site to evaluate the effectiveness of groundwater extraction and VEGE. Testing will be completed utilizing multiple vacuum levels (low, mid, high) on both shallow and deep zones in an attempt to identify the most cost efficient method of obtaining remedial goals, while monitoring local peripheral wells for vacuum and groundwater drawdown influence. Upon completion of the feasibility testing, data will be evaluated for the design of a full scale remedial system and the submission of a Remedial Action Plan (RAP) will be submitted to the PADEP within 45 days of the submission of this document.



18.0 PLANNED ACTIVITIES AND SCHEDULE

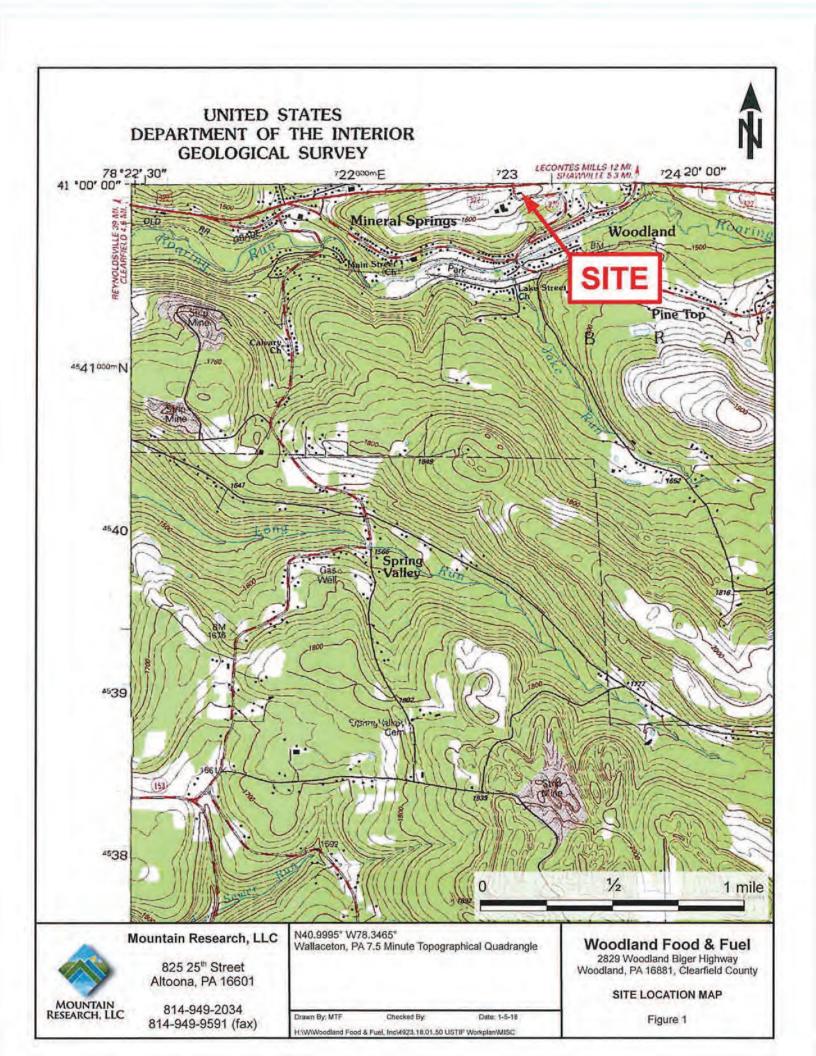
Five (5) deep zone monitoring wells, and four (4) feasibility study wells are anticipated to be installed in January 2019. Upon full delineation of groundwater impacts, site Q.D. modeling and feasibility testing will be performed in January 2019. Mountain Research will submit an Amendment to the Site Characterization and Remedial Action Plan on February 5, 2019 that contains all the additional activities performed.

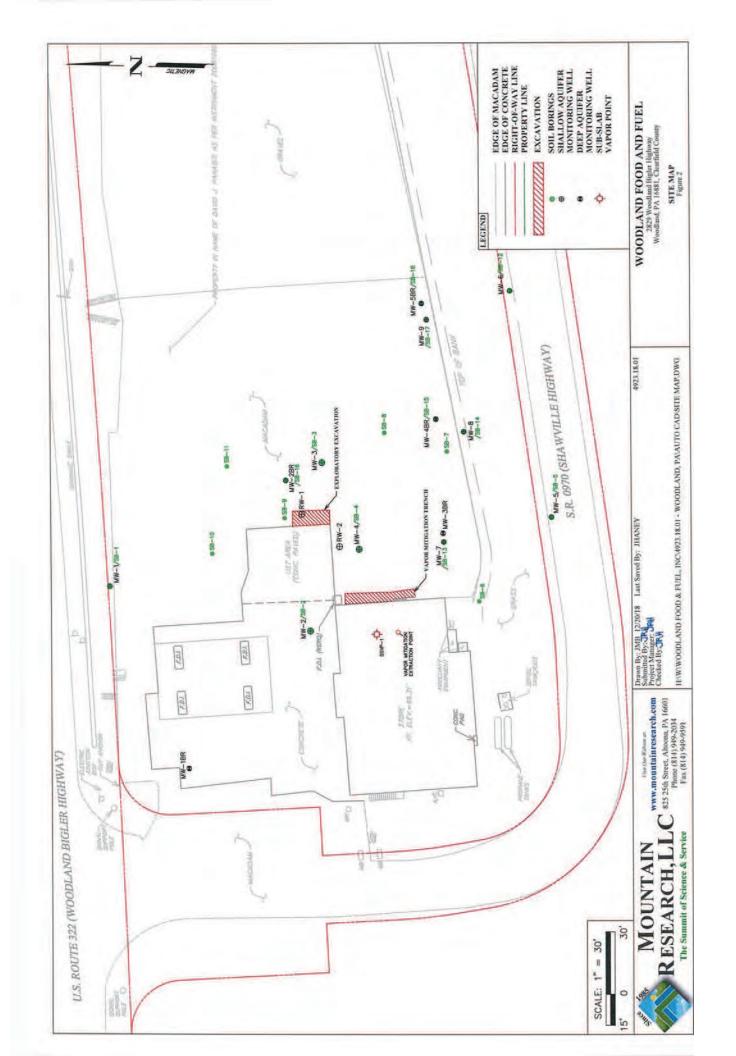


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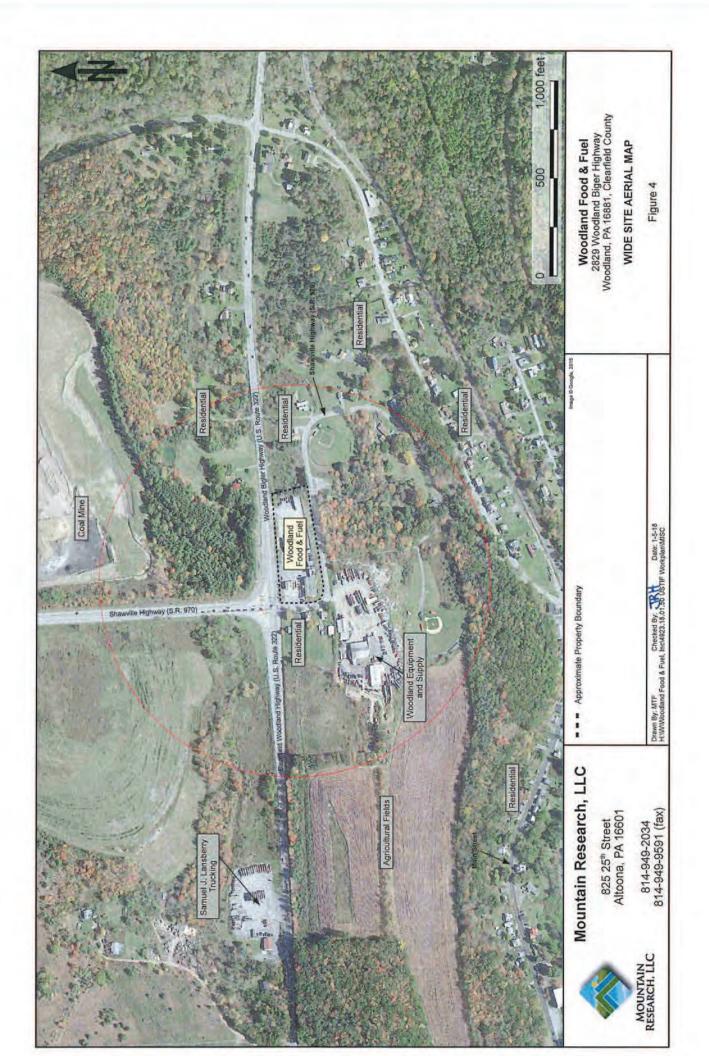
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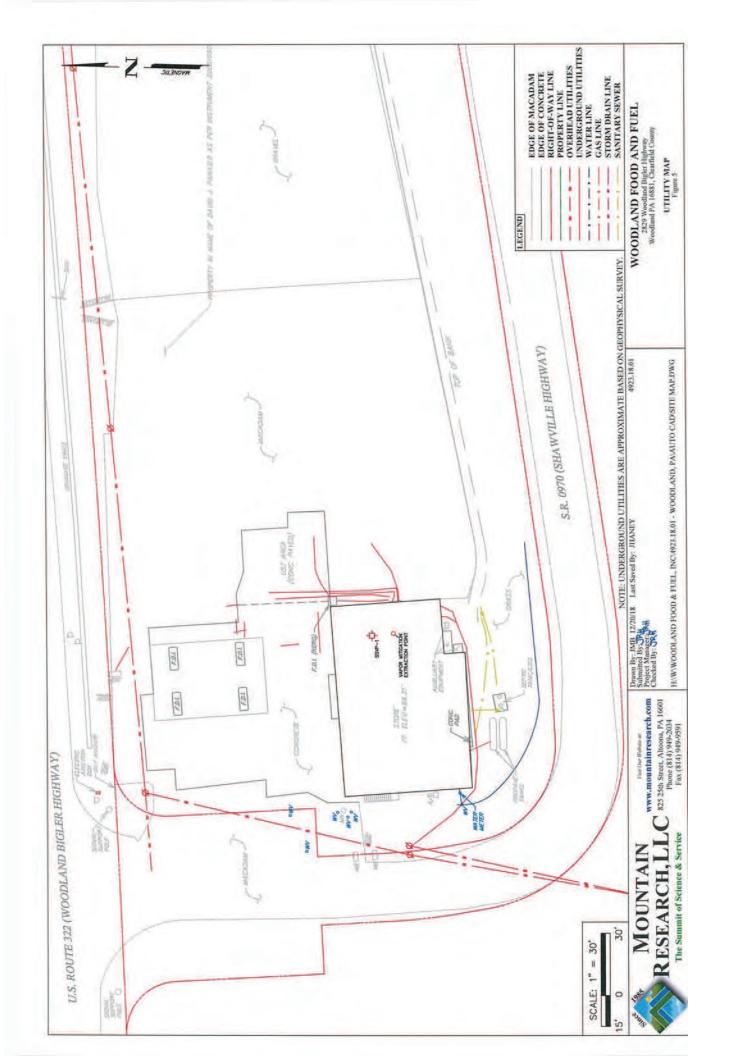


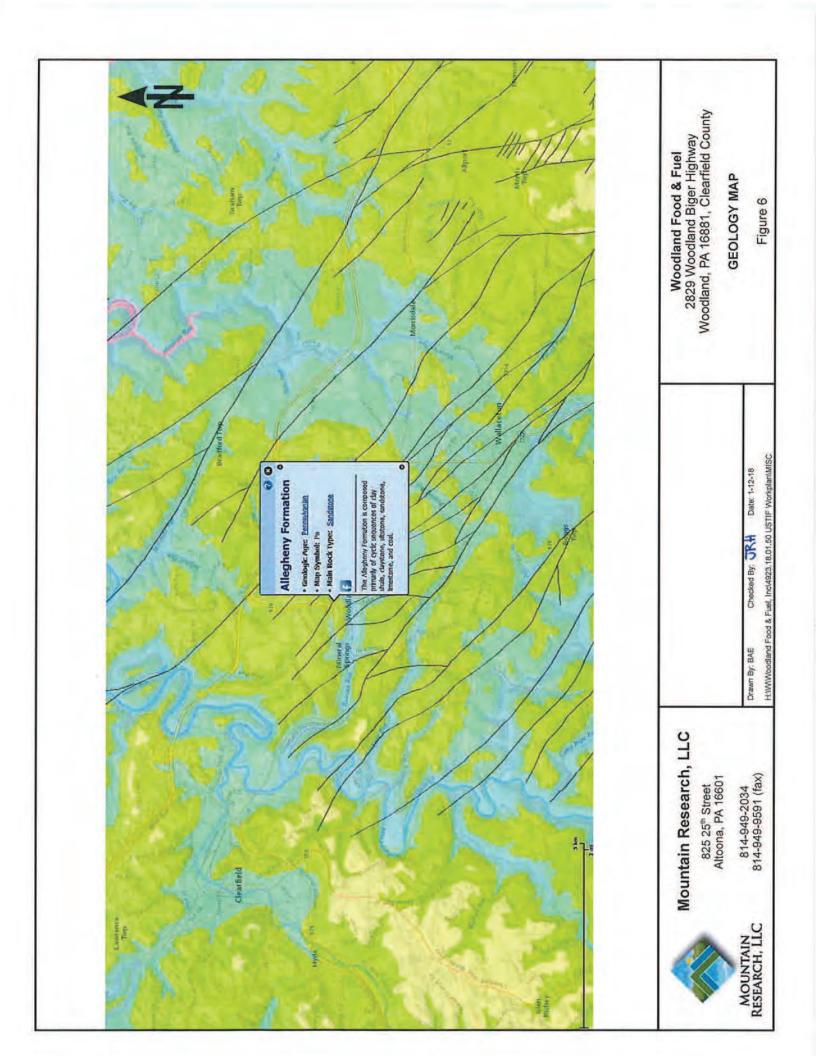


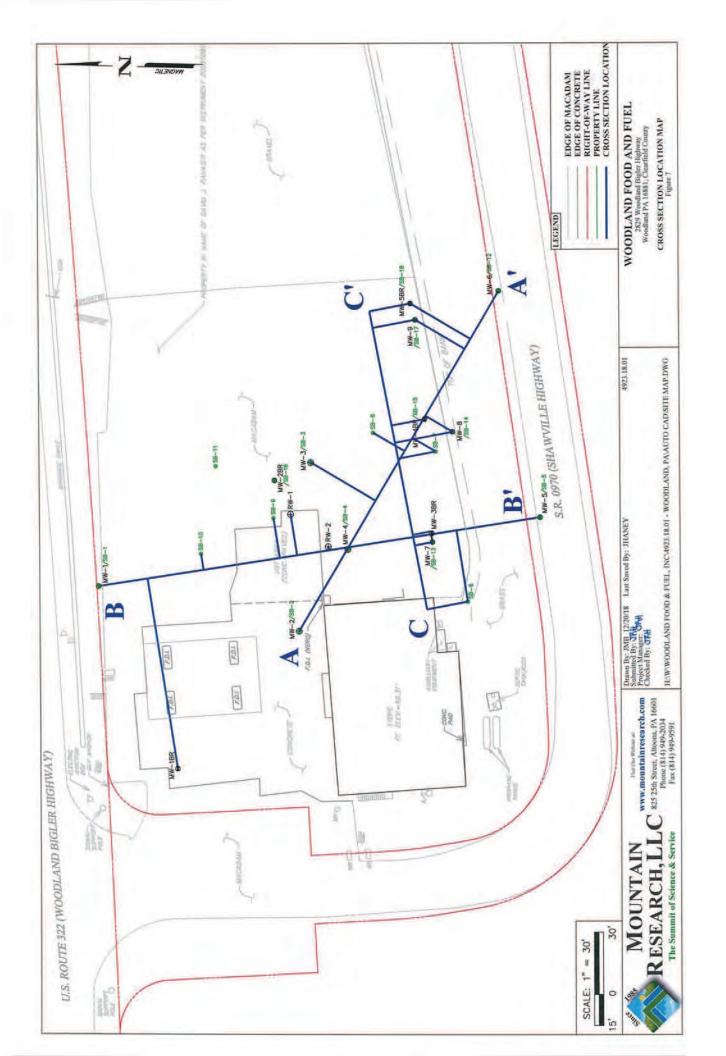


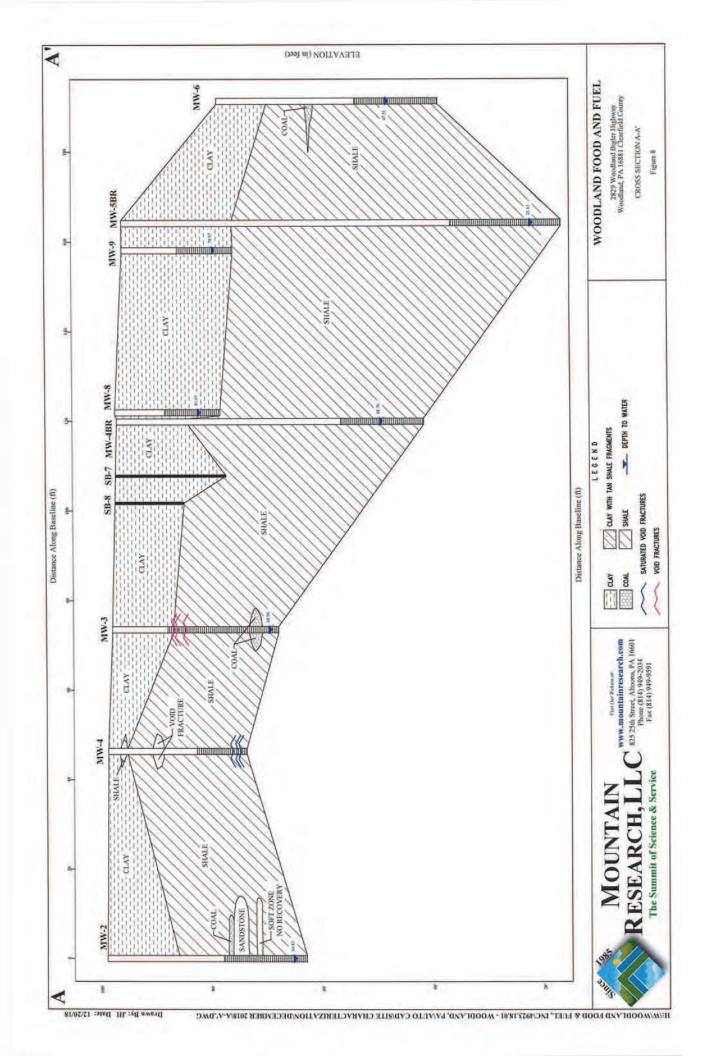


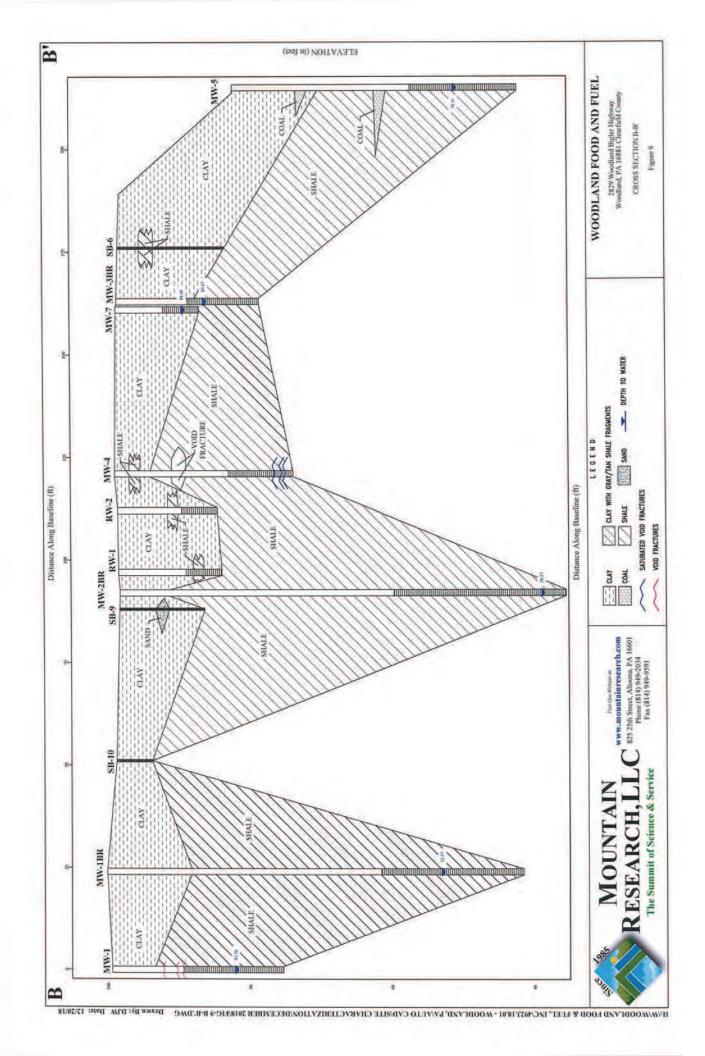


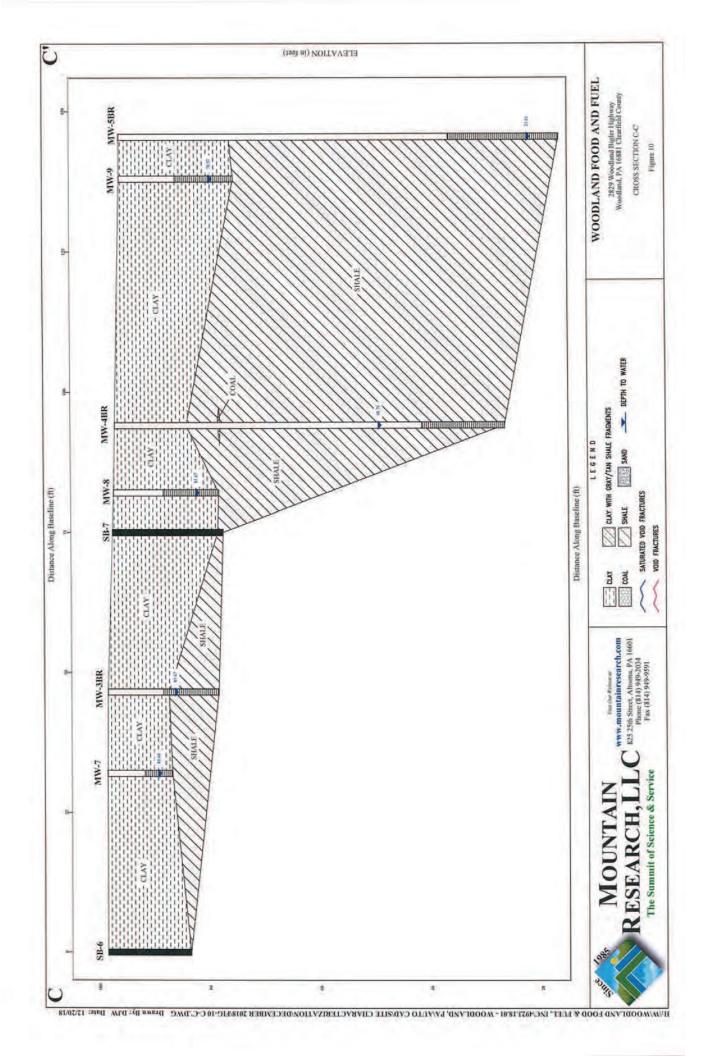


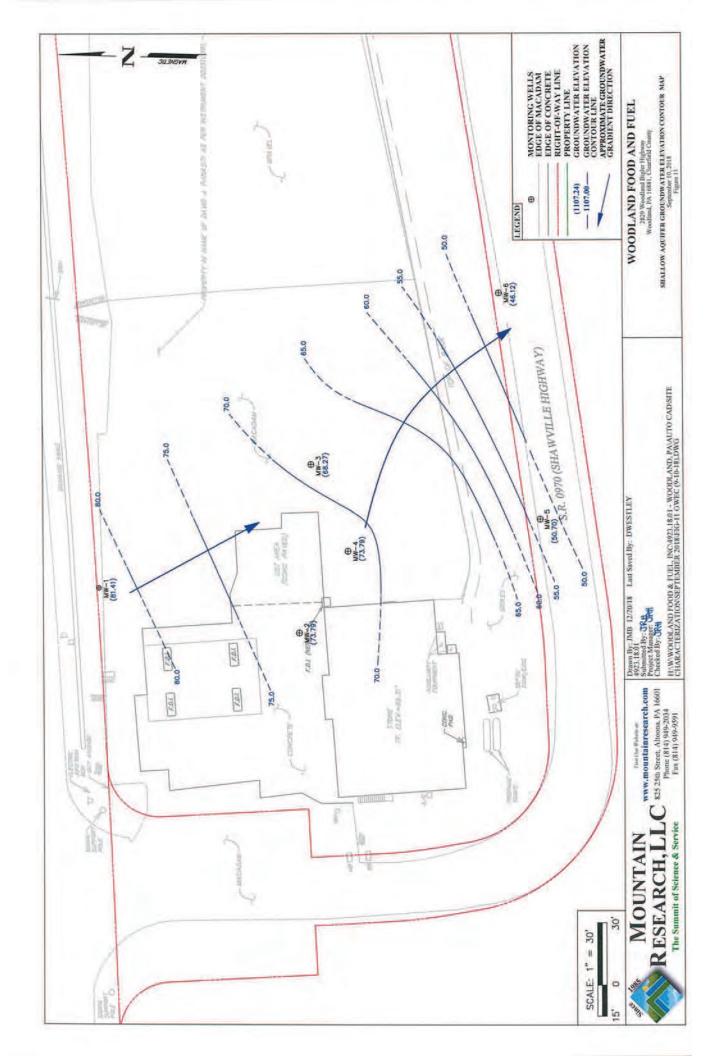


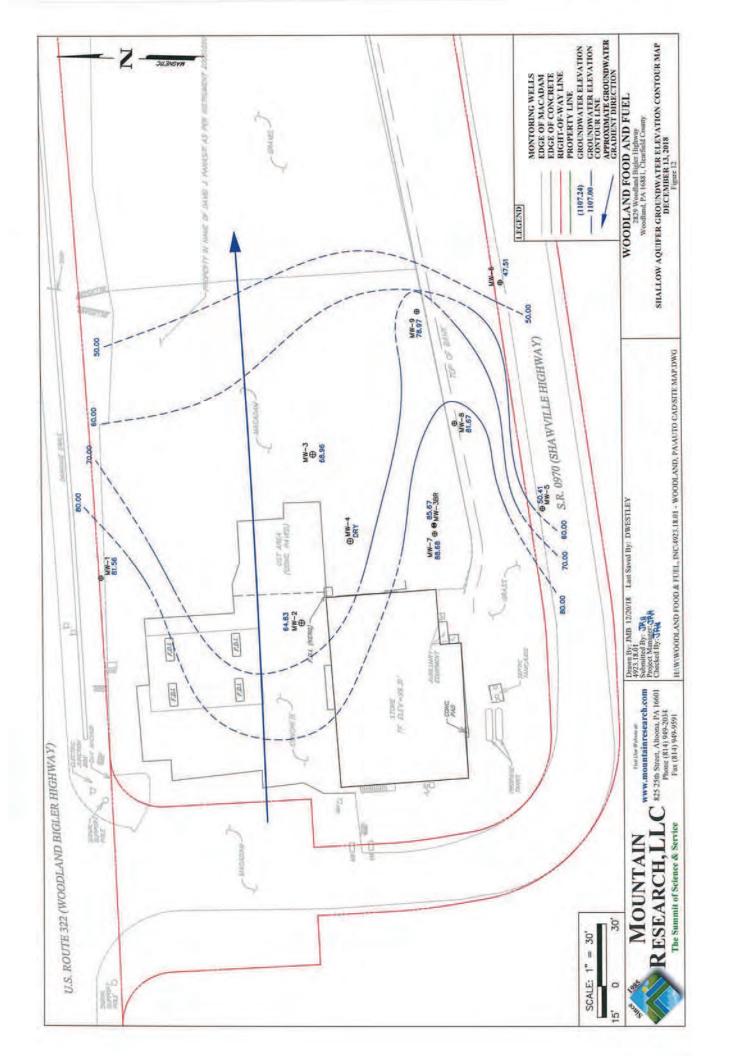


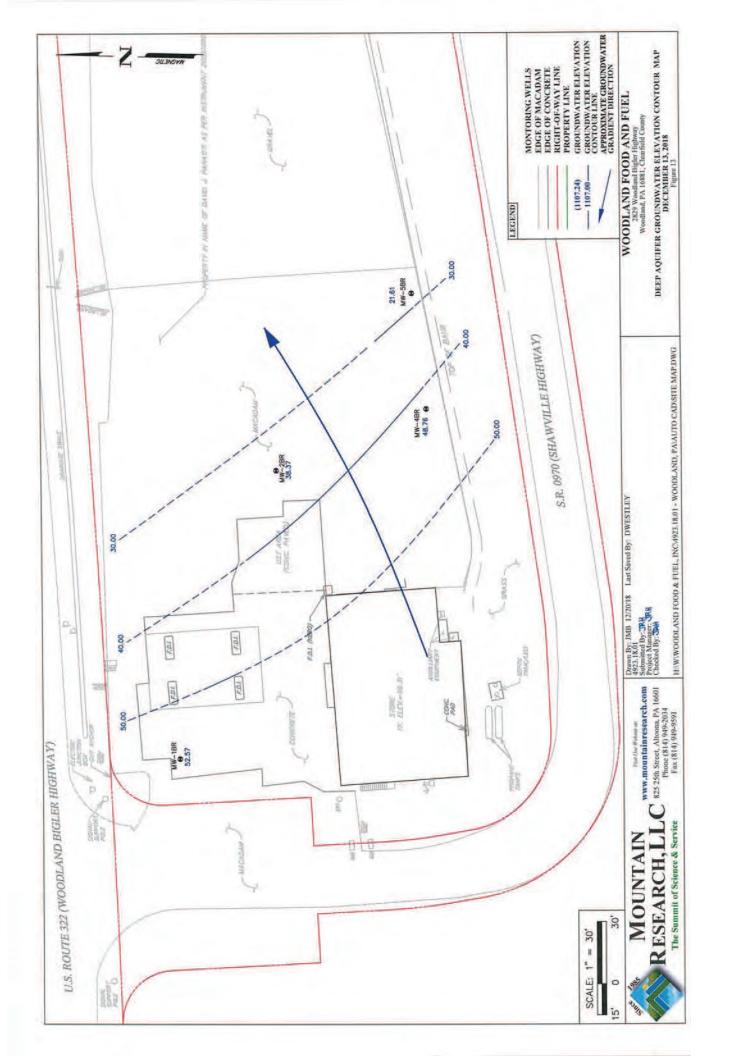


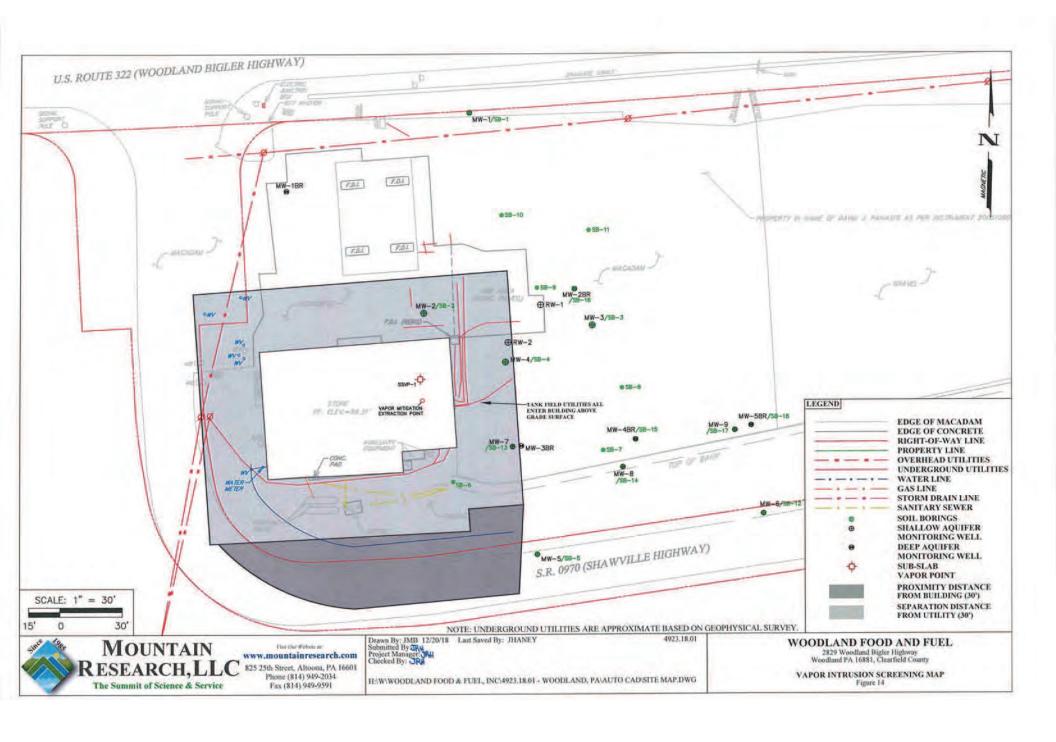












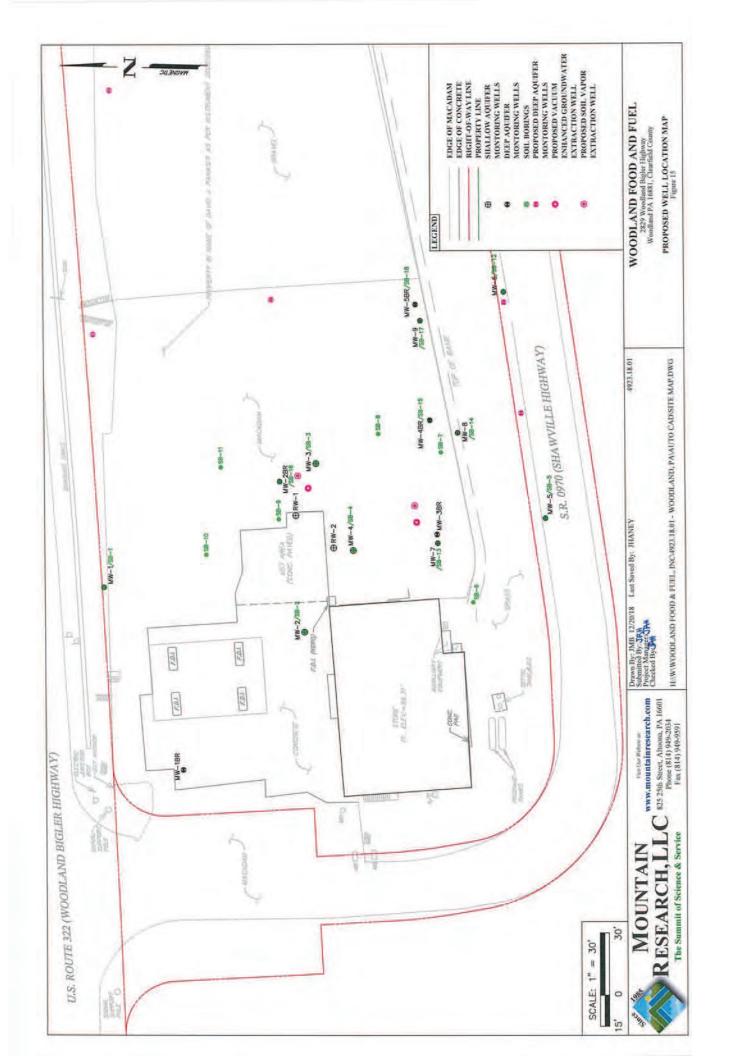






Table 1

MONITORING WELL CONSTRUCTION SUMMARY WOODLAND FOOD AND FUEL WOODLAND, PENNSYLVANIA

MRLLC Project No. 4923.18.01

JRH 12/12/18 Prepared By:

MC 12/12/18 Checked By:

Table 2 Aquifer Hydraulic Values from Slug Tests

WOODLAND FOOD AND FUEL, INC. WOODLAND, PA

MR Project No. 4923.18.01

Summary of Aquifer Test Responses and Analyses

Unconfined Shallow Aquifer

ln(K)	-1.992164
K (ft/d)	0.136
b (ft)	9.50
Transmissivity (ft2/d)	1.296
Analysis Method	Bouwer & Rice
Test Phase	Falling Head
Well	MW-2
Test Type	Slug

-1.992	
	0.136
	9.500
	1.30
Mean In (hydraulic conductivity) = Geometric mean hydraulic conductivity (K) ft/day =	Average hydraulic conductivity (K) ft/day = Average saturated aquifer thickness(b) = Average Transmissivity (T = Kb) (ft²/day) =

Confined Deep Aquifer

Test Type	Well	Test Phase	Analysis Method	Transmissivity (ft2/d)	b (ft)	K (ft/d)	In(K)
	MW-3BR	Rising Head	Bouwer & Rice	0.422	6.50	0.065	-2.7346
Slug	MAN ABD	Rising Head	Bouwer & Rice	1,679	12.00	0.140	-1.966827
	NOT MAIN	Falling Head	Bouwer & Rice	0.608	12.00	0.051	-2.982027

12.00 0.051	0.90 12.00 0.051	Kising Head		& Kice	1.679	12.00	0.140	-1.96682
10.167	10.167 0.985	Falling He		& Rice	0.608	12.00	0.051	-2.98202
0.90	06.0	Mean In ic mean hy Average hy	n (hydraulic conducti draulic conductivity draulic conductivity saturated aquifer thic	ivity) = (K) ft/day = (K) ft/day = kness(b) =		10.167	0.085	-2.561
		erage Tra	insmissivity (T = Kb)	(ft2/day) =	0.90			

Created By: Checked By:

> b - Saturated Aquifer Thickness K - Hydraulic Conductivity

TABLE 3

СКОUNDWATER ELEVATION SUMMARY

мооргир, РА WOODLAND FOOD AND FUEL

MR Project No. 4923.18.01

Comments	Ground Water Elevation (ft)	Casing Elevation (ft)	Static Water Level (ft)	Mell Construction Total Depth	Date	Mell ID
	₽8.08	≯£,99	18.50	24.0	3/23/2018	r-ww
	47.28	\$6.34	09,81		4/4/2018	
	14.18	\$6.99	17.93		8/10/2018	
	98.18	46.99 46.99	84.71 87.71		12/6/2018	
	96.89	\$0.66	30.09	0.88	3/23/2018	Z-WM
	t-6.60	±0.66	33.50	0.00	8102/2018	7-14111
	66.99	₹0°66	29.65		9/10/2018	
	£8.88	p0.66	14.08		12/6/2018	
	88.49	≯ 0.96	34.21		12/13/2018	
	20.69	26.79	28.90	0.08	3/23/2018	K-WM
	72.32	26.79	25.60	2.12	4/4/2018	12.00
	72.67	26.76	25.25		8/10/2018	
JobO	72,42	26,76	25.50		11/27/2018	
lione.	96.89	26.79	96.82		12/13/2018	
	01.87	97.86	22.65	25.5	3/53/5018	t-MW
	91,77	9Z'86	21.00		8102/4/2	
	99'62	94.86	19.20		9/10/2018	
	DRY	67.86	DBA		11/27/2018	
	99.97	97,86	22.10		12/6/2018	
	DBA	67.86	DRY		12/1382018	-
	87.67	82.00	32,52	0.04	8102/01/6	g-MW
	67.08	00.28	12.18		12/6/2018	
	14.03	00.28	31.59		12/13/2018	
	47.34	49.87	31.30	0.04	9/10/2018	9-MW
	49.74	49.87 40.87	31.00	1 - 1	12/6/2018	
	18.74	p9.87	81,18		12/13/2018	
- 1332	14.19	15.86	01.7	7.11	11/13/2018	Z-MW
Odor	14,19	19'86	7,10		11/27/2018	
	88.88	12.86	58.6		12/13/2018	
	24.28	97.24	14,82	0'61	11/13/2018	8-WM
	40.48	⊅ Z.76	13.20		11/27/2018	
	79.18	₽2.7e	78.81	100	12/13/2018	
	70.87	88.96	18.71	20.5	11/13/2018	6-WW
	86.67	88.36	15.90		11/27/2018	
	79.87	88.36	16.91		12/13/2018	
	79.94	70,001	23.45	6.88	11/13/2018	ABI-WA
	72.64	10,001	08.08	PARIL	11/27/2018	
	78.58	10.001	47.50	1	12/13/2018	
	DRY	60.86	YAO	7.29	11/13/2018	782-WA
	64.2E	60.86	09.29	1000	11/27/2018	
	78.88	60.86	27.98		12/13/2018	
	\$8.88	98.39	99"11	20.0	11/13/2018	A86-WA
	69.88	68.39	08.6	7 3 1	11/27/2018	
	78.88	98.39	12,72		12/13/2018	
	60.84	46'96	88.84	3.07	11/13/2018	NW-4BR
	48.50	26.96	74.84	3.0	11/27/2018	
	97.84	Z6 96	15.84		12/13/2018	
Grab	20.49	66.36	09'94	5.97	11/13/2018	A82-WI
Grab	50.99	66'96	00.27		11/27/2018	
	ALCOHOL STORY	CA. C. T.	86.47		12/13/2018	

Prepared By:

H/M/Moodland Food & Fuel, Incl. 4923, 18,01 - Woodland, PAIXLS/GW Elevation Summary_MRC Corrected



TABLE 4

SOIL ANALYTICAL SUMMARY

WOODLAND FOOD & FUEL, INC. WOODLAND, PA

MR Project No. 4923,18.01

Soil to Groundwa	Soil to Groundwater Medium Specific Concentrations (MSC)	strations (MSC)	8,400	74,000	200	100,000	70,000	1,000,000	2,000.	000'009	25,000
Rosine	Bosidential Direct Contact (0 - 15 Feet)	Beet	130.000	2,200,000	57,000	10,000,000	180,000	1,900,000	1,700,000	7,700,000	160,000
Recidentia	Residential Soil Vapor Screening Value (SV	(SV _{ector})	3 500	210.000	130	44,000	48,000	990,000	280	2,500,000	25,000
	British to the same of	A COUNTY OF THE PARTY OF THE PA				Sampl	Sample Parameters				
SAMPLE ID / SAMPLE DEPTH	Sample Date	Total Solids (% Weight)	1,2,4-Trimethylbenzene	1,3,5- Trimethylbenzene	Benzene	Toluene	Ethythenzene	Total Xylones	MTBE	Cumene	Naphthalene
SB-1/MW-1/5.0") U	3/9/2018	95.6	46.7	12.4	4.22	74,6	23.6	136	<2.09	6.12	54.8
SB-2/MW-2 (13.0') U	3/6/2018	84.5	15.8	5.21	<2.37	-2.37	437	<7.10	<2,37	<2.37	26.0
SB-3MW-3 (9.0°) U	3/12/2018	92.1	<2.17	42.17	<2.17	5.04	<2.17	<6.62	<2.17	<2.17	<2.17
MW-4/SB-4 (3.5') U	3/7/2018	82.3	<2.43	<2.43	9:36	<2,43	<2.43	<7.29	6.35	<2.43	2.46
SB-S/MW-5 (2.0) U	7/15/2018	83.2	<2.96	<2.96	<2.98	<2.96	<2.96	<8.87	<2.96	<2.96	<2.96
SB-5/MW-5 (13.0) U	7/12/2018	0.1.0	<2.42	<2.42	<242	<2.42	-2.42	<7.27	<2.42	42.42	-242
SB-6 (13.0) U	3/12/2018	296.7	<2.07	<2.07	<2.07	<2,07	<2.07	<6.20	<2.07	<2,07	<2.07
SB-6 (14.5') U	3/12/2018	56 5.33	<2.32	<2.32	7.06	19.8	<2.32	25.0	<2.32	<2.32	<2.32
SB-7 (15.0°) U	3/8/2018	92.4	813	235	1,580	6,360	850	4,690	<2,17	229	224
SB-7 (18.5') U	3/8/2018	53.7	<2,13	4213	<2.13	<2,13	<2.13	<6.40	1111	42.13	<2,13
SB-8 (9.5°) U	3/8/2018	92.9	15.3	4.35	22.5	560	17.1	125	<2.15	<2.15	9.66
SB-8 (12.0') U	3/8/2018	95.8	1,260	41.8	44.0	1,870	57.5	2,620	<2.09	13.4	15.6
SB.976 57 U	3/8/2018	81.9	59.800	10,100	9,440	115,000	24,600	128,000	*2,440	4,820	14,000
SR.9 (11 KVI)	3/8/2018	94.3	5.950	896	86.3	3,030	1,310	7,060	4.38	57.0	1,730
SR.10(2.0) U	7/11/2018	93.8	<2.13	<2.13	<2.13	<2.13	<2.13	<6.40	<2,13	<2.13	<2.13
SB-10 (6 0) U	7/11/2018	91.0	<2.20	<2.20	4.40	31.6	<2.20	6.71	<2.20	<220	<2.20
SB-11 (2.0) U	7/11/2018	88.6	<2.28	<2.25	<2.26	5.54	<2.26	<6.77	<2.26	<2.26	<2.26
SR.11 (6.0) II	7/11/2018	94.0	<2.13	-213	36.2	104	7.22	35.4	<2.13	<2,13	<2.13
SR. 12/MW.R 19 01 11	7/43/2048	216	<2.16	<2.18	<2.16	2.16	<2.16	«6.48	<2.16	<2,16	<2.16
SR.13/MW.7 /9.01 U	10/26/2018	82.2	29,100	8,470	<2,430	38,100	13,300	86,400	<2.480	2,940	2,740
SB-14/WW-8 (12.0) [J	10/26/2018	94.2	<3.06	<3.06	30.6	<3.06	30 E>	<9.17	<3.06	<3.06	5.83
SB-15/WW-5BR (6.0) U	10/30/2018	93.0	373	35.1	354	3,610	386	2,440	×1.98	15.9	19.8
SB-16 MW-2 BR (7.0) U	10/29/2018	84.9	487	<235	<235	2,080	<235	×706	<235	<235	563
SB-17/MW-9 (19.0) U	10/25/2018	88.0	81.5	25.1	<227	4,110	1,900	10,200	3.27	18.3	3.67
SB-18/MW-5 (17.0) U	10/26/2018	89.1	12,200	48.8	462	18,200	6,130	35,100	4.21	32.9	6.31

All results in micrograms per kilogram (ug/kg)
Shaded = PA/DEP Medium Specific Concentration (MSC) Exceedantse
Boid = Descreted
Roo's Coercino Limit access PA/DEP MSC
U = Unsaturated Stati

JPD 11/14/2018 JRH 12/3/2018

Prepared by: Checked by:

S = Saturated Soil

Exceedance of the PADEP Residential Soil Vapor Screening Value (SV_{ens.})

TABLES

AQUEOUS SAIPILE ANALYTICAL SUMMARY WOODLAND FOOD AND FUEL, INC. WOODLAND, PA.

MR Project No. 4923.18.01

		44	490	4	200	840	07	100	1,000	10,000
Variational Variation	Encountry Value (SV)	240	250	620	100	8,000	32.000	3.40	140,000	10,000
staentral vapor	Scheening	040	000	140	2007	Sample Parameter	meter			
Well ID	Sample Date	1.2,4-TMB	1,3,5-TMB	Benzene	Ethylbenzene	Cumene	MTBE	Naphthalene		Total Xylenes
MW-1	3/23/2018	133	37.9	76,2	77.5	<20.0	<20.0	20.4	299	487
	4/4/2018	17.4	44.7	4000	34.8	<20.0	<20.0	e man	27.4	467
	8/10/2018	42.00	42.00	<2.00	<2.00	42.00	3.58	2,00	200	00.00
1	12/6/2018	<2.00	<2.00	<2.00	<2.00	<2.00	2.11	27.00	207	2000
MW-2	3/23/2018	<2.00	<2.00	<2.00	<2.00	<2.00	20.0	107	200	40.4
	4/4/2018	48.4	22.3	8.67	25.5	2.59	80.6	40.4	1.07	1.40
	9/15/2018	9.25	2.87	=2.00	6,40	<2.00	4.55	<200	42.00	0,00
-	12/6/2018	<2.00	<2.00	-2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<0.00
MW-3	3/23/2018	<2.00	~2.00	9.18	<2.00	<2.00	11.7	<2.00	28.0	00.05
	4/4/2018	3,000	2,260	3,750	4,620	386	34.7	1,560	47,200	26,500
	9/10/2018	1.520	357	2.060	2.240	<200	4200 ·	338	15,700	13,500
	11/27/2018	2,530	637	3.470	2,430	222	-450b	573	17,200	15,600
MVV.4	3/23/2018	<2.00	<2.00	2.89	<2.00	<2.00	4.70	<2.00	7.51	-6.00
	4/2018	680	1,410	626	283	77.2	38.5	43.9	2,800	2,330
	975/2018	79.3	23.0	247	85,4	e10.0	44.2	<10.0	1,060	593
	十分をひむる	29.4	9.18	11.4	21.3	3.02	55.1	<2.00	6.86	134
MW.S.	8/97/0018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	-6.00
	BATANADA B	000	<2.00	900	<2.00	<200	<2.00	×2.00	<2.00	-00.00 -
	discount in	200	200	<2.00	<200	<2.00	<2.00	<2.80	<2.00	00'60
	21/21/21	-							1	
MW-6	8/27/2018	~2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	00°9>
	9/10/2018	<2.00	<2.00	×2.00	<2.00	<2.00	<2.00	42.60	42.00	00'95
	12/6/2018	<2.00	<2.00	87	~2.00	42.00	<2.00	<2.00	7.00	×6.00
-							-	-0.40	32.0	100
MW-7	11/13/2018	17.1	23.0	2.98	4.12	42.00	4200	00.27	0.00	****
	11/27/2018	69.2	52.2	6.62	18.1	2.45	×2.00	4.87	197	1/4
MAY S	411339018	<2.00	- <2.06	3.34	<2.00	<2.00	20.0	<2.00	<2.00	00°9>
	11/27/2018	<2.00	<2.00	23.6	<2.00	<2,00	11.8	<2.00	4200	-6.00
						-	* 0*	20.00	E. 8.7	40.0
6-MW	11/13/2018	42.00	2007	76.2	20.00		2.00	200	284	274
	11/27/2018	24.6	97'0	130	200	2,03				
MW-18R	11/13/2018	00.5	-2.0g	~2.00	<2.00	<2.00	~2.00	<2.00	<2.00	<6.00
	11/27/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2,00	<2.00	4200	46.00
000000	a secondary a	4 600	000	4 600	0.500	2000	0943	248	15.100	11,300
MW-58K	840010044	346	144	88.2	168	37.6	<20.0	31.2	888	976
							1		1	
MW-48R	11/13/2018	266	63.8	748	333	16.2	<10.00	44.7	3,140	2,450
	11/27/2018	4200	<200	478	363	200	4200	DEC.	4,470	2,180
MW. SOR	11/33/2018	5.64	42.00	<2.09	2.96	<2.00	3.05	<2.00	14.4	19.1
100.000	TO A STATE OF THE PARTY OF THE		-	-	2 46	Wes	5 20 20	<2.00	39.8	36.1

Bods = Detected
Snade = Excepts PADEP MSC
First = Detected Language First Parity
DMR = Turnet/Merceted
- Vapor Intrusion Screening Exceletions

Prepared By TAK 12/12/18 Checked By LML 12/15/18

TABLE 6

Sub-Slab Vapor Sample Point Integrity Testing Results

Woodland Food and Fuel Woodland, PA MRLLC Project No. 4923.18.01

Vapor Point dentification	Vapor Point Depth Beneath Top of Slab (in)	Date	Helium Concentration in Shroud (ppm) ^A	Purge Rate (mL/min)	Purge Helium Concentration Pre-Sample (ppm)	e (bbm)	Results
SSVP-1	4	12/11/2018	326,000.0	100	2,260 0.01		PASS

Prepared By: JRH 12/19/2018 Checked By: JRH 12/20/2018

Soil Vapor Sample Analytical Summary Woodland Food and Fuel TABLE 7

Woodland, PA

MRI I C Project No. 4923.18.01

Residential Sub-Slab Soil Gas SSS Screening Values (SV _{SS} / 10)	ilab Soil Gas SSS ues (SV _{SS} / 10)	0.012	0.037	1.6	0.0028	20	96,0	0.028	0.028	0.4
Non-Residential Sub-Stab Soil Gas SSS Screening Values (SV _{SS} / 10)	o-Slab Soil Gas SSS ues (SV _{SS} / 10)	0.205*	0,63	23.08*	0.046	280	9	0.40*	0.39	5.64*
SOIL VAPOR					ANALYI	ANALYTICAL RESULT SUMMARY	IMARY			
SAMPLE	SAMPLE DATE	Benzene	Ethylbenzene	Isopropylbenzene (Cumene)	Naphthalene	Toluene	MTBE	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	Total Xylenes
SSVP-1	12/11/2018	<0.0016	<0.0022	<0.0062	<0.0026	<0.0019	<0.0018	<0.0025	<0.0025	<0,0067
SSVP-1 Duplicate	12/11/2018	<0,0016	<0.0022	<0.0062	<0.0026	<0.0019	<0.0018	<0.0025	<0.0025	<0.0067
Vapor Mitigation	12/11/2018	0.023	0.00071	0.021	<0.00052	0.0028	<0.00036	<0.00049	0.00063	0.00331

LML 12/17/2018

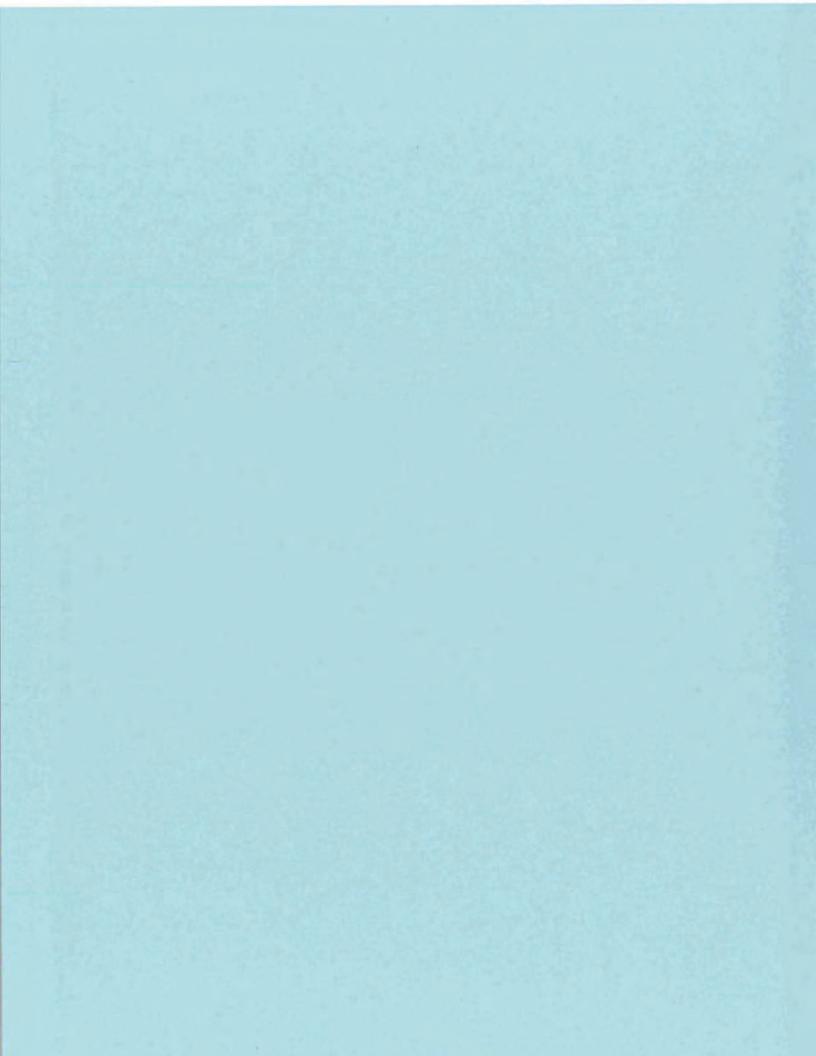
Prepared By: Checked By:

NOTES:

1. Samples analyzed at a National Environmental Laboratory Accreditation Conference (NELAC) certified laboratory following EPA Method TO-15.

2. PADEP Screening values taken from the January 18, 2017 Technical Guidance Manual for Vapor Intrusion into Buildings from Groundwater and Soil under ACI 2. Red Values indicate compound was detected.

4. Bold values for total xylenes are detrived by summing results per sample for m&p-xylene and o-xylene.



ATTACHMENT 4

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



UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

	17-70935	
	Facility I.D	
Bradford Township	,	Clearfield
Municipality		County
	10-25-96	
-	Date Prepare	d
	Amy Boyer	
Name of F	Person Submit (Please Print	
Perry Petr	coelum Equi	oment, Ltd.
	Company Nan (If Applicable	
	Secretary	
	Title	
Closure Method (Check all that apply):	Site	Assessment Results (Check all that apply):
□ Removal	(28)	No Obvious Contamination - Sample Results Meet Standards/Levels
☐ Closure-In-Place		No Obvious Contamination - Sample Results Do Not Meet Standards/Levels
☐ Change-In-Service		Obvious, Localized Contamination - Sample Results Meet Standards/Levels
		Obvious, Localized Contamination - Sample Results Do Not Meet Standards/Levels
		Obvious, Extensive Contamination

2530-FM-LRWM0159 4/96

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



UNDERGROUND STORAGE TANK SYSTEM? CLOSURE REPORT FORM

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

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

1.	Facility ID Number	1	7-70935		2. Facility Name	Woodland For	od & Fue	1
	Facility County	C:	learfield		4. Facility Municipa	ality	rd Towns	hip
5.	Facility Address	Inter	section of Rts	. 322 & 9	70, Woodland, PA	A 16681		
6.	Facility Contact Pe	rson _	David Panasi	ti	7. Facility Tele	ephone Number	(814)	857-7714
8.	Owner Name	Woodla	and Food & Fue	1				
9.	Owner Mailing Ad	dress_	P.O. Box 310	A, Woodla	nd, PA 16681			
-		Value V	10 1					

10. Description of Underground Storage Tanks (Complete for each tank closed)

DATE OF TANK CLOSURE (N	fonth/Day/Year)	N/A	N/A	N/A	
Tank Registration Number		17-70935-001	17-70935-002	17-70935-003	
Estimated Total Capacity (G	allons)	8,000	8,000	4,000	
Substance(s) Stored Throughout Operating	a. Petroleum Unleaded Gasoline	~	36	K	-
Life of Tank	Leaded Gasoline	ox o	X t		
	Aviation Gasoline				
(Check All That Apply)	Kerosene	0			
	Jet Fuel		п		
	Diesel Fuel	0		0	
	Fuel Oil No. 1	0	0	0	
	Fuel Oil No. 2		0	0	
	Fuel Oil No. 4	0	0	D D	
	Fuel Oil No. 5		0	0	
	Fuel Oil No. 6	0	a	0	
	New Motor Oil	0	0	0	
	Used Motor Oil Other, Please Specify	٥	0	0	
NOTE: If Hazardous Substance Block is Checked, Attach Material Safety Data Sheets (MSDS)	b. Hazardous Substance Name of Principal CERCLA Substance AND	0	0	0	D
Silee & (MSDS)	Chemical Abstract Service (CAS) No.				D
					-
Closure Method	a. Removal	п	0	0	
(Check Only One)	b. Closure-in-Place	0	п	0	
	c Change-In-Service	*	R	X	
Partial System Closure (Yes o	- N-N	No	No	No	

2530-FM-LRWM0159 4/96

Tank Registration Number					
Estimated Total Capacity (G	allons)		Mr. Carl		
Substance(s) Stored	a. Petroleum	7			
Throughout Operating	Unleaded Gasoline	0	D		0
Life of Tank	Leaded Gasoline	0	0		o o
(Check All That Apply)	Aviation Gasoline	0	0	D	D
	Kerosene	O		D	D
	1et Fuel		0	0	
	Diesel Fuel		0	D	0
	Fuel Oil No 1	G			D
	Fuel Oil No. 2		0		0
	Fuel Oil No. 4			D	
	Fuel Oil No 5	G	0	O	D
	Fuel Oil No. 6	0	0		
	New Motor Oil		0	D	0
	Used Matar Oil Other, Please Specify		0		0
NOTE: If Hazardous Substance Block is Checked, Attach Material Safety Data Sheets (MSDS)	b. Hazardous Substance Name of Principal CERCLA Substance AND Chemical Abstract	ū		0	
	Service (CAS) No.				0
	c. Unknown	0	0	п	
Closure Method	a. Removal	п	0		0
Check Only One)	b. Closure-in-Place	П	0	а	
	c. Change-In-Service	П	D		0
Partial System Closure (Yes o	63.0				

es	N/A		
		11.	Briefly describe the storage tank facility and the nature of the operations which were conducted at the facility (both historical and present) including use of tanks;
			Facility is a gas station.
X		12.	A site location and sampling map of the site, drawn to scale, is attached. See page 11 of 11.
		13.	Original, color photographs of the closure process are attached (i.e, inside of excavation/piping runs, pit water, tanks showing condition).
9k		14.	An amended "Registration of Storage Tanks" form was submitted to the DEP, Bureau of Water Quality Management, Division of Storage Tanks, P.O. Box 8762, Harrisburg, PA 17105-8762.
			Date:
	(X	15.	If a reportable release was confirmed, the appropriate regional office of DEP was notified by the owner or operator.
			Date: Office:

	100			
Y	es	12	N	A

0	(3)	16.	If tanks were cleaned on-site:
			a. Briefly describe the disposition of usable product:
			b. Briefly describe the disposal of unusable product, sludges, sediments, and wastewater generated during cleaning. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):
			c. If tank contents were determined/deemed to be hazardous waste, provide: (1) Generator ID Number:
			(2) Licensed Hazardous Waste Transporter Name and ID Number:
	X	17.	If tanks were removed from the site for cleaning:
			 a. Provide the name and permit number of the processing, treatment, storage or disposal facility performing the tank cleaning:
			b. If tank contents were determined/deemed to be hazardous waste, provide: (1) Generator ID Number:
			(2) Licensed Hazardous Waste Transporter Name and ID Number:
		18.	Briefly describe the disposition of tanks/piping (Attach documentation of proper disposal):
	DX.	19.	If contaminated soil is excavated:
			a. Briefly describe the disposition and amount (tons) of contaminated soil. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):
			b. If contaminated soil is determined/deemed to be hazardous waste, provide:
			(1) Generator ID Number:

2530-FM-LRWM0159 4/96

Yes	N/A			
	X	20.	Briefly describe the dispositio	n of and amount (tons) of uncontaminated soil
			(attach analyses)	
i	D		Panasiti ,	hereby certify, under penalty of law as provided in 18 Pa. C.S.§4904
the II	ntorm	unsv	vorn falsification to authorities	that I am the owner of the above referenced storage tank(s) and that report (Section I) is true, accurate and complete to the best of my
	_	X	1/2	1/-19-96
			Signature of Tank Owner	Date

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

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 17-70935

Yes	N/A	1.	Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil: Soils were excavated around piping. Soils were stockpiled and
			sampled due to unusual vapors.
		2.	Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping:
			Lines were removed from the ground and replaced with APT
			double wall piping.
		3.	Briefly describe the condition of the tanks and any problems encountered during tank removal: N/A
		4.	Briefly describe the method used to purge the tanks of and monitor for explosive vapors:
	rax.	5.	If tanks were cleaned on-site:
			a. Briefly describe the tank cleaning process:
			b. If subcontracted, name and address of company that performed the tank cleaning:
	180	6.	If tanks were closed-in-place, briefly describe the tank fill material:
Ž.	0	7.	If contamination was suspected or observed, the "Notification of Contamination" form was

SECTION II. (continued)

ing to unsworn falsification to authoriti	es) that I am the certified installer who performed the tank I pove referenced storage tank(s) and that the information pro
this closure report (Section II) is true, acc	urate and complete to the best of my knowledge and belief.
- 0	
(i) 1/2-	10.25.00
Signature of Certified Installer	10-25-96 Date
Signature of the line winstance	74.0
4201	14
4391 Installer Certification Number	
	Perry Petroleum Equipment, Ltd.
	Company Name
	Rts. 17 & 74
	Street
	Ickesburg, PA 17037
	City/Town, State, Zip
	(717) 438-3776 Phone
	FILADE

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

UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information Tank Registration # (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system) Facility ID Number 17-70935 Provide depth of BEDROCK and WATER IF encountered during excavation or soil boring (write "N/A" if NOT encountered). Water 0 feet below land surface Bedrock feet below land surface Provide Length of PIPING IF piping was closed-in-place (write "N/A" if NOT closed-in-place). Length of piping N/A TANK SYSTEM REMOVED FROM THE GROUND 1). Was obvious contamination observed while excavating? likely source(s) (tank, piping, dispenser, spills, overfills): —→ Complete item C.2. below. 2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)? ☐ YES -----→ Remove or remediate contaminated soil ------→ Conduct confirmatory sampling -----→ Indemnification Fund (717-787-0763). □ NO ------> Continue interim remedial actions ------> See end of this section for options on submission TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE Was obvious contamination observed during sampling, boring or assessing water depths? X NO ------ Conduct confirmatory sampling ------ See end of this section for options on submission and maintenance of closure records. sources (i.e., tank, piping, dispenser, spills, overfills):

of closure records ------ Call Indemnification Fund (717-787-0763).

Continue with corrective action ---------- See end of this section for options on submission and maintenance

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

Options for Submission and Maintenance of Closure Site Assessment Records

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

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

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

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

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

I, Brian D. Sheaffer	, hereby certify	, under penalty of law as provided in 18 Pa. C.S.§4904
associated with the closure of the	above referenced storage	ne person who performed the site assessment activitie tank(s) and that the information provided by me in thi se best of my knowledge and belief.
126 19 00	21.	10-25-96
Signature of Person Performi	ng Site Assessment	Date
President		Perry Petroleum Equipment, Ltd.
Title of Person Performing	Site Assessment	Name of Company Performing Site Assessment

NOTIFICATION OF REPORTABLE RELEASE (Owners and displators) NOTIFICATION OF CONTAMINATION (Certified Installers and Inspettors)

NOTIFICATION OF REPORTABLE RELEASE (Owners and Operators)

On August 21, 1993, the Storage Tank Cleanup Program's Corrective Action Process (CAP) regulations became effective. These regulations establish release reporting requirements for owners and operators of storage tanks and storage tank facilities.

Subsection 245.305(a) of the regulations requires owners or operators to notify the appropriate regional office of the Department as soon as practicable, but no later than 2 hours, after the confirmation of a reportable release.

Subsection 245.305(d) requires owners or operators to provide written notification to the appropriate regional office and to the local municipality, within 15 days of the notice required by Subsection 245.305(a). This form may be used to comply with Subsection 245,305(d).

OWNERS AND OPERATORS (O/O)

PLEASE COMPLETE SECTIONS I, II, IIIA, IIIB, IV, V, VII and VIII.

NOTIFICATION OF CONTAMINATION (Certification and Inspectors)
On September 21, 1991, the Storage Tank Program's Certification of performances of performances. certified installers and inspectors of storage tanks and storage tank facilities.

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

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

> CERTIFIED INSTALLERS AND INSPECTORS (I/I) PLEASE COMPLETE SECTIONS 1, II, IIIA, IIIC, VI, VII and VIII.

INSTRUCTIONS

- FACILITY INFORMATION Record the name, I.D. number and physical location (not P.O. Box) of the facility at which a reportable release has been confirmed or at which suspected or confirmed contamination has been observed. Include the name and phone number of a person to contact at the facility.
- OWNER INFORMATION Record the name, business address and phone number of the owner of the facility identified in Section I.
- REGULATED SUBSTANCE INFORMATION Indicate to the best of your knowledge: A) the type of product or products involved; B) the III. quantity of product or products released; and C) whether the contamination is suspected or confirmed.
- REPORTABLE RELEASE INFORMATION Record the date of confirmation of the reportable release, e.g., "08/21/93"; the date and regional office notified; and the date the local municipality (provide name of municipality) was sent a copy of this form. Indicate to the best of your knowledge the extent of contamination resulting from the release of the regulated substance.
- INTERIM REMEDIAL ACTIONS Indicate the interim remedial actions planned, initiated or completed.
- SUSPECTED/CONFIRMED CONTAMINATION INFORMATION Record the date of observation of the suspected or confirmed contamination, e.g., "01/01/94". Indicate to the best of your knowledge the indications of a suspected release or extent of confirmed contamination resulting from the release of the regulated substance.
- ADDITIONAL INFORMATION Provide any additional, relevant, available information concerning the reportable release or suspected or confirmed contamination. Include in this section a brief description of the activity that was being conducted when the reportable release was confirmed by the owner or operator or when the suspected/confirmed contamination was observed by the certified installer or inspector, e.g., during a(n) installation, repair or upgrade, removal from service or routine inspection.
- CERTIFICATION Please print your name, and provide your signature and date of signature. If a certified installer/inspector, provide certification number and company certification number. PLEASE SEND COMPLETED ORIGINAL FORM TO:

PA Department of Environmental Protection **Environmental Cleanup Program**

Storage Tank Section

(and the appropriate address below, depending on where the FACILITY is located)

Southeast Region Lee Park, Suite 6010 555 North Lane Conshohocken, PA 19428 FAX: 610-832-6143

Counties Bucks, Chester, Delaware, Montgomery, Philadelphia

Northeast Region 2 Public Square Wilkes-Barre, PA 18711-0790

Counties Carbon, Lackawanna, Lehigh, Luzeme, Monroe, Northampton, Pike, Schuyiklii, Susquehanna, Wayne, Wyoming

Southcentral Region One Ararat Boulevard Harrisburg, PA 17110 FAX: 717-540-7492

Counties Adams, Bedford, Berks, Blair, Cumberland Dauphin Franklin, Fulton. Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, York

Northcentral Region 208 W. Third Street, Suite 101 Williamsport, PA 17701 FAX: 717-327-3565

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

Southwest Region 400 Waterfront Drive Pittsburgh, PA 15222 FAX: 412-442-4194

Counties Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, Westmoreland Northwest Region 230 Chestnut Street FAX: 814-332-6121

Counties Butler, Clarlon, Crawford, Elk, Erle, Forest, Jefferson, Lawrence, McKean, Mercer, Venango, Warren

FACILITY INFORMATION (Both O/O and I/I)

Facility I.D. Number **Facility Name** Woodland Food & Fuel 7-70935 Street Address (P.O. Box not acceptable) Routes 970 & 322 Zip Code State City Woodland 16681 PA Municipality County Bradford TWD . Clearfield Phone Number Contact Person 857 7714 Jeff Powell 814

II. OWNER INFORMATION (Both O/O and I/I)

Owner Name Powel Address 30 P.O. City Woodland Phill psburg State Zip Code PA Phone Number ,300 ,432 0866 814) 857-7714

	II. REGULATED SUBSTANCE INFORMATION	ON
A. Type of Product(s) Involved (Mark All That Apply Ø): Both O/O and I/I	B. Quantity (Gallons) of Product(s) Released: O/O Only	C. Contamination Suspected [5] or Confirmed [C]: 1/I Only
Leaded Gasoline XX Aviation Gasoline XX Aviation Gasoline □ Kerosene □ Jet Fuel □ Diesel Fuel □ New Motor Oil □ Used Motor Oil □ Fuel Oil No. 1 □ Fuel Oil No. 2 □ Fuel Oil No. 5 □ Fuel Oil No. 5 □ Other (Specify) □ Unknown □		XX
IV. R	EPORTABLE RELEASE INFORMATION (O/O	Only)
Date Owner/Operator Verbally Notified Appropression of the Company of this Written Municipality and Name of Municipality Date// Municipality	sriate Regional Office of S S S Notification to Local G	oil
	/. INTERIM REMEDIAL ACTIONS (O/O Onl	ly)
	CONFIRMED CONTAMINATION INFOR	MATION (I/I Only)
Date of Observation of Suspected/Confin	med Contamination: 10 / 8 / 96	
Indication of Suspected Contamination (Mark All That Apply): Unusual Level of Vapors Erratic Behavior of Product Dispensing Equipment Release Detection Results Indicate a Release Discovery of Holes in the Storage Tank Other (Specify)	Extent of Confirmed Confir	A STATE OF THE STA

VII. ADDITIONA	INFORMATION	(Both O/O and I/I)
----------------	-------------	--------------------

Isoclude a brief description of the activity that was being conducted when the reportable release was confirmed by the owner or operator or when the suspected/confirmed contamination was observed by the certified installer or inspector, e.g., during a(n) installation, repair or upgrade, removal from service or routine inspection.

While removing an island, encountered unusual vapors beneath the island in the dispenser area.

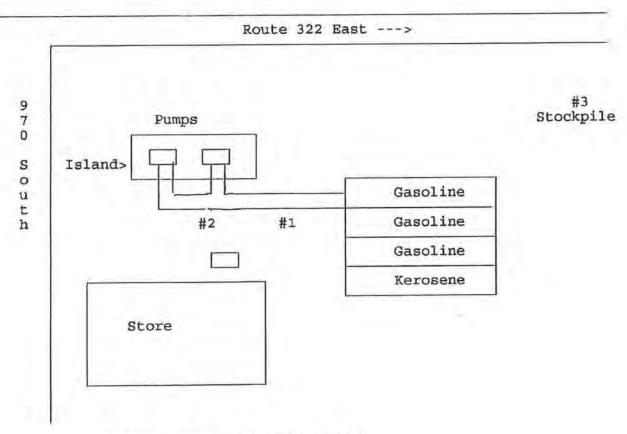
An estimated 40 ton of soil was stockpiled on plastic at the site and sampled.

VIII. CERTIFICATION (Both O	/O and I/I)
7 50 5 5	hereby certify, under penalty of law as provided in 18 Pa. C.S.A. tor of the above referenced storage tank facility and that the
Signature of Owner or Operator	/0/ <u>17/96</u> Date
(Print Name) §4904 (relating to unsworn falsification to authorities) that I am the certified installer storage tank (activity and that the information provided by me in this notification is true	hereby certify, under penalty of law as provided in 18 Pa. C.S.A. who performed tank handling activities at the above referenced , accurate and complete to the best of my knowledge and belief. $10/17/96$
Lanny E Hopen der	
4391	14
Installer Certification Number	Company Certification Number
I,(Print Name) §4904 (relating to unsworn falsification to authorities) that I am the certified inspect storage tank facility and that the information provided by me in this notification is true	hereby certify, under penalty of law as provided in 18 Pa. C.S.A. or who performed inspection activities at the above referenced, accurate and complete to the best of my knowledge and belief.
Signature of Certified Inspector	Date
Inspector Certification Number	Company Certification Number

SITE MAP Scale = None

LOCATION: Woodland Food & Fuel

FACILITY ID#: 17-70935



***** SAMPLE ANALYSIS *****

#1 - taken beneath gasoline lines
#2 - taken beneath gasoline lines
#3 - taken from stockpile (approximately 40 - 50 tons)

CHEMSPEC

Analytical Laboratories PH (77) 671-9633 • FAX: (77) 671-9635

Chain of Custody Report

ChemSpec Analytical Laboratories, Inc. • 6130 Old Jonestown Road, Suite D. • Paxtonia Business Center • Harrisburg, PA 17112

C1678

Page Cof L

Rush Turnaround Time Requested (Please Circle); Normal (Rush Results subject to prior approval and surcharge) Rush Results To: Phone: Fax: Project Manager: //Worland . Led + Lu # O.H Project Number: Sampler(s): Project Name Heroleum Phone: 438-3776 Fax 438-3930 Client: Address:

Sample Identification Collected Containers Matrix													
Sample Identification Date Collected Containers Authority Autho										Requested			
201 - 1 - 30-01 - 1 - 30-1 - 1 - 30-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		Sample Identification Description/Locations	Date Collected	Time	Total # of Containers	Матіх	\ See	DON'S DOX	111	//	///	/	Remarks
	1	,	26-01-01		-	1,05	100						
	2	·č			•	•							
8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3	ゆっぷ	.,	ł		- 13	b						
5 6 7 8 9 10 11 12 13 14 15 15	4												
5 3 9 10 11 12 13 14 15 15	5												
7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	9												
9 10 10 10 10 10 10 10 10 10 10 10 10 10	7												
9	8				10								
10 11 12 13 14 15	0												
11 12 13 14 15	10												
13 13 14 15	1												
13 14 15	12												
14	13			i									
15	14												
	15												

camples were taken from beneath gasoline piping and from a stock pulp Comments

Send Bill To	keinduisued by:	Date, little	little regerded by.	Cate	111115
	Ame to Court	13/11/60	X ma/a 80cm	infin	1152
	3	Date Time	Received By.	Date	Time
Phone:	Relinquished By:	Date Time	Received By:	Date	Time
Fax;			Del Monda	195/KIRI -	9-15 AM
	The state of the s	Date Comment Com		1 1	

Pink - Customer Copy Yellow - Report Copy

Original - Laboratory



Laboratory Results Summary

C1678

Mr. Brian Sheaffer

Perry Petroleum Equipment, Ltd.

Route 17, P.O. Box 208 Ickesburg, PA 17037

Project Manager: n/a

Woodland Food & Fuel Project Name:

Project Number: n/a

Sampler: n/a

Date 5ampled: October 10, 1996

Time 5ampled: n/a

Date Received: October 14, 1996

9:15 AM Time Received:

Analyst: Terry Osenbach

Analytical Testing Parameters

Selected PA	DEP UST	Parameters: Unleaded	Gasoline
Sample ID: C167	78-01 - 1		

Sample ID: C1678-01 • 1	47.70	77.50	1404	Mathed	Test Date	Analyst
Test / Parameter	Result	Units	MDL	Method		All Property
	<2 50	ppb	2 50	EPA 8260A	October 17, 1996	TJO
MTBE	<2.50	ppb	2 50	FPA 8250A	October 17, 1996	OLT
Benzene	<2 50	ppb	2.50	EPA 8260A	October 17, 1996	OLT
Toluene	<2.50		2.50	FPA 8260A	October 17, 1996	OLT
Ethylbenzene		ppp	5 00	EPA 8260A	October 17, 1996	TJO
m,p-xylene	<5.00	ppb	2 50	EPA B260A	October 17, 1996	OLT
o-Xylene	<2.50	ppb	2 50	EPA 8260A	October 17, 1996	TJO
Isopropylbenzene	<2.50	ppp	45.5	EPA 8260A	October 17, 1996	TJO
Haphthalene	<2 50	bbp	2 50		October 21, 1996	TJO
Benzo(a)anthracene	<20.0	bbp	50.0	EPA 82708		TJO
Benzo(a)pyrene	<2 00	ppb	2 00	EPA 82708	October 21, 1996	
% Moisture	9.06	%	0.01	EPA 160.3	October 15, 1996	HAM

ppb = Parts per Billion = µg/Kg (5olf)

The MDL is the Method Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte.

Soil results based on dry weights, as performed by EPA 160.3

Selected PA DEP UST Parameters: Unleaded Gasoline

Sample ID: C1678-02 • 2

Sample to: C1676-02 • 2	Result	Units	MDL	Method	Test Date	Analyst
Test / Parameter	3.88	nnh	2 50	EPA 8260A	October 17, 1996	TJO
MTBE		ppb	2.50	EPA 8260A	October 17, 1996	TJO
Benzene	<2.50 4.81	ppb	2.50	EPA 8260A	October 17, 1996	TJO
Toluene	3.00	ppb	2 50	EPA 8260A	October 17, 1996	TJO
Ethylbenzene	<5.00	ppb	5 00	EPA B260A	October 17, 1996	OLT
m,p-Xylene	2.71	ppb	2.50	EPA 8260A	October 17, 1996	OLT
a-Xylene	2.99	ppb	2 50	EPA 8260A	October 17, 1996	OLT
Isopropylbenzene	<2.50	ppb	2.50	EPA 8260A	October 17, 1996	INO
Maphthalene	<20.0	ppb	20.0	EPA 8270B	October 21, 1996	TJO
Benzo(a)anthracene	<2 00	ppb	Z 00	EPA 8270B	October 21, 1996	TJO
Benzo(a)pyrene % Moisture	7.42	%	0.01	EPA 160 3	October 15, 1996	KAM

ppb = Parts per Billion = µg/Kg (50ll)

The MDL is the Method Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte.

Soil results based on dry weights, as performed by EPA 160.3.

Reviewed and reported by:

Terry Osenbach, Laboratory Director PADEP Lab No. 22-478



Laboratory Results Summary

EPA 8270B

EPA 160.3

200

001

Woodland Food & Fuel . C1678

TJO

KAM

October 21, 1996

October 15, 1996

Analytical Testing Parameters

Sample ID: C1678-03 • 5P		71.40	A ACT	Method	Test Date	Analyst
Test / Parameter	Result	Units	MDL	METRO	The second secon	
MTBE	60.3	ppb	2.50	EPA BZ60A	October 17, 1996	TJO
Benzene	6.17	ppb	2.50	EPA 8260A	October 17, 1996	OLT
E 3702 2703	52.5	ppb	2.50	EPA 8260A	October 17, 1996	TJO
Toluene	35.8	ppb	2.50	EPA 8260A	October 17, 1996	OLT
Ethylbenzene	55.1	ppb	5.00	EPA 8260A	October 17, 1996	TJO
m,p-Xylene	36.6	ppb	2.50	EPA 8260A	October 17, 1996	TJO
o-Xylene	24.2	ppb	2.50	EPA 8260A	October 17, 1996	TJO
Isopropylbenzene	16.9		2 50	EPA BZ60A	October 17, 1996	TJO
Naphthalene	(5555)	ppb	20.0	EPA 8270B	October 21, 1996	TJO
Benzo(a)anthracene	<20.0	ppb	20.0	EPA 92708	October 21, 1996	TIO

ppb

ppb = Parts per Billion = µg/Kg (50ll)

Benzo(a)pyrene

% Moisture

The MDL is the Method Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte.

<20.0

21.43

Soil results based on dry weights, as performed by EPA 160.3

Reviewed and reported by:

Terry Osenbach, Laboratory Director PADEP Lab No. 22-478

personal Owled

0



Perry Petroleum Equipment, Ltd.

Rt. #17, PO Box 208, Ickesburg, PA 17037

Phone: (717) 438-3776 FAX: (717) 438-3930



FAX MEMO

10:	Death Herguson
FROM:	Brian Sheaffer
SUBJECT:	Suspended Contamination Report
# OF PAGES	S:4-
DATE:	10-18-910
COMMENTS	
Jul facoaso	

ACTION REQUIRED ______
FOR YOUR INFORMATION _____

NOTIFICATION OF REPORTABLE RELEASE (Owners and Operators) NOTIFICATION OF CONTAMINATION (Certified Installers and Inspectors)

NOTIFICATION OF REPORTABLE RELEASE (Owners and Operators)

On August 21, 1993, the Storage Tank Cleanup Program's Corrective Action Process (CAP) regulations became effective. These regulations establish release reporting requirements for owners and operators of storage tanks and storage tank facilities.

Subsection 245,305(a) of the regulations requires owners or operators to notify the appropriate regional office of the Department as soon as practicable, but no later than 2 hours, after the confirmation of a reportable release.

Subsection 245.305(d) requires owners or operators to provide written notification to the appropriate regional office and to the local municipality, within 15 days of the notice required by Subsection 245,305(a). This form may be used to comply with Subsection 245.305(d).

OWNERS AND OPERATORS (0/0) PLEASE COMPLETE SECTIONS I, II, IIIA, IIIB, IV, V, VII and VIII.

NOTIFICATION OF CONTAMINATION (Certified Installers and Inspectors)

On September 21, 1991, the Storage Tank Program's Certification regulations became effective. These regulations establish standards of performance for certified installers and inspectors of storage tanks and storage tank facilities.

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

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

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

INSTRUCTIONS

FACILITY INFORMATION - Record the name, I.D. number and physical location (not P.O. Box) of the facility at which a reportable release has 1. been confirmed or at which suspected or confirmed contamination has been observed. Include the name and phone number of a person to

OWNER INFORMATION - Record the name, business address and phone number of the owner of the facility identified in Section I. REGULATED SUBSTANCE INFORMATION - Indicate to the best of your knowledge: A) the type of product or products involved; B) the III. quantity of product or products released; and C) whether the contamination is suspected or confirmed.

REPORTABLE RELEASE INFORMATION - Record the date of confirmation of the reportable release, e.g., "08/21/93"; the date and regional IV. office notified; and the date the local municipality (provide name of municipality) was sent a copy of this form. Indicate to the best of your knowledge the extent of contamination resulting from the release of the regulated substance.

INTERIM REMEDIAL ACTIONS - Indicate the interim remedial actions planned, initiated or completed.

SUSPECTED/CONFIRMED CONTAMINATION INFORMATION - Record the date of observation of the suspected or confirmed contamination, e.g., "01/01/94". Indicate to the best of your knowledge the indications of a suspected release or extent of confirmed contamination resulting from the release of the regulated substance.

ADDITIONAL INFORMATION - Provide any additional, relevant, available information concerning the reportable release or suspected or confirmed contamination. Include in this section a brief description of the activity that was being conducted when the reportable release was confirmed by the owner or operator or when the suspected/confirmed contamination was observed by the certified installer or inspector,

e.g., during a(n) installation, repair or upgrade, removal from service or routine inspection.

CERTIFICATION - Please print your name, and provide your signature and date of signature. If a certified installer/inspector, provide certification number and company certification number. PLEASE SEND COMPLETED ORIGINAL FORM TO:

PA Department of Environmental Protection Environmental Cleanup Program Storage Tank Section

(and the appropriate address below, depending on where the FACILITY is located)

Southeast Region Lee Park, Julie 6010 555 North Lane Conshohocken, PA 19428 FAX: 610-832-6143

Counties Eucks, Chaster, Delaware, Montgomery. Philadelphia

Northeast Region 2 Public Square Wilker-Barre, PA 18711-0790 FAX; 717-520-4907

Counties Carbon, Lackawanna, Lehigh, Luzeme, Manrae, Normampton, Pike, Schuylkill, Surquehanna, Wayne, Wyoming

Southcentral Region One Ararat Boulevard Harrisburg, PA 17110 FAX: 717-540-7492

Countle Adams, Bedford, Borks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Junista, Lancaster, Lebanon, Mifflin, Perry, York

Northcentral Region 208 W. Third Street, Sulta 101 Williamsport, PA 17701 FAX: 717-327-3565

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

Southwest Region 400 Waterfrant Drive Pitaburgh, PA 15222 PAX: 412-442-4194

Counties Allegheny, Armstrong, Beaver, Cambria, Payette, Greene, Indiana, Somerset. Washington, Wostmoreland Horthwest Region 230 Chestout Street Meadville, PA 16335 FAXI 814-332-6121

Countles Butler, Clarlon, Crawford. Elk, Erle, Forest, Jefferson, Lawrence, McKean, Mercer, Venango, Warren

I. FACILITY INFORMATION (Both O/O and I/I)

Facility Name Woodland Food & F	
Street Address (P.O. Box not acce Routes 970 & 322	ptable)
City	State Zip Code
Woodland	PA
County	Municipality
Clearfield	Bradford Two.
Contact Person Jeff Powall	Phone Number

II. OWNER INFORMATION (Both O/O and I/I)

J. J. Powell.	
P.O. Box 30	
Phillipsburg .	
State PA	Zip Code L ó il ó 6
Phone Number	

2530-FM-LRWM0082 Rev. 5/96

	III. REGULATED SUB	STANCE INFORMATION	1	
Type of Product(s) Involved (Mark All That Apply ®): Both O/O and I/I		C. Contamination Suspected [5] or Confirmed [C]: VI Only		
Leaded Gasoline Unleaded Gasoline Aviation Gasoline Kerosene Jes Fuel Diesel Fuel New Motor Oil Used Motor Oil Used Motor Oil Fuel Oil No. 1 Fuel Oil No. 2 Fuel Oil No. 4 Fuel Oil No. 5 Fuel Oil No. 6 Other (Specify) Unknown		INFORMATION (O/O	XX [S] [S] [S] [S] [S] [S] [S] [S]	10 10 10 10 10 10 10 10 10
	EPORTABLE RELEASE	INFORMATION (0/0 C	inly)	
Date Reportable Release was Confirmed: Date Owner/Operator Verbally Notified Appro Reportable Release and Office Notified: Date / / Office / Office Date Owner/Operator Sent Copy of this Written	n Notification to Local	Soil Sedi Surf:	tal Impacts (Mark All Tha	0
m d y		Wate	er Supplies	1444
	V. INTERIM REMEDIA	L ACTIONS (O/O Only)		
	nks		0	0
		AMINATION INFORMA	TION (I/I Only)	
Date of Observation of Suspected/Confir		0 / 8 / 96 m d y		
Indication of Suspected Contemination Mark Ali That Apply 2): Jinusual Level of Vapors Jirratic Behavior of Product Dispensing Equipment Telease Detection Results Indicate a Release Discovery of Holes in the Storage Tank		Extent of Confirmed Contan (Mark All That Apply &): Product Stained or Product S Ponded Product Free Product or Sheen on Po Free Product or Sheen on the	saturated Soil or Backfill nded Water	
Other (Specify)		Free Product or Sheen on Sur Other (Specify)	face Water	

2530-FM-LRWM0082 Rev. 5/96

VII. ADDITIONAL INFORMATION (Both 0/0 and 1/1)
-------------------------------	-------------------

include a brief description of the activity that was being conducted when the reportable release was confirmed by the owner or operator or when the suspected/confirmed contamination was observed by the certified installer or inspector, e.g., during a(n) installation, repair or upgrade, removal from service or routine inspection.

While removing an island, encountered unusual vapors beneath the island in the dispenser area.

An estimated 40 ton of soil was stockpiled on plastic at the site and sampled.

VIII. CERTIFICATION (Both O/O a	nd I/I)
, DAVID J. PAVASITI hereb	by certify, under penalty of law as provided in 18 Pa. C.S.A.
\$4904(relating to unsworn falsification to authorities) that I am the owner or operator of information provided by me in this notification is true, accurate and complete to the best of m	f the above referenced storage tank facility and that the ny knowledge and belief.
Signature of Owner or Operator	10/27/96 Date
DANNY Reisinger hereb	y certify, under penalty of law as provided in 18 Pa. C.S.A.
54904 (relating to unsworn falsification to authorities) that I am the certified installer who p storage tank facility and that the information provided by me in this notification is true, accur	erformed tank handling activities at the above referenced ate and complete to the best of my knowledge and belief.
Vanno E Besinder	10/17/96
Signature of Certified Install	Date
4391	14
Installer Certification Number	Company Certification Number
,, hereb	y certify, under panalty of law as provided in 18 Pa. C.S.A.
(Print Name) §4904 (relating to unsworn falsification to authorities) that I am the certified inspector who storage tank facility and that the information provided by me in this notification is true, accur-	o performed inspection activities at the above referenced ate and complete to the best of my knowledge and belief.
Signature of Certified Inspector	Date
Inspector Certification Number	Company Certification Number



APPENDIX B

EMERGENCY RESPONSE NOTIFICATION REPORT

EMERGENCY RESPONSE NOTIFICATION REPORT

DATE: 12/22/17	TIME: 2211	(24-hour designator)
CALLERS NAME: Dave	Spochart, Bolger Brothers	PHONE: 814-931-1775
ADDRESS: 1028 Burns A	Ave, Altoona, PA 16601	
CALLERS AFFILIATION 7	TO INCIDENT: Safety & Compliance M	anager
RESPONSIBLE PARTY:	Dave Pamasipi, Woodland Food & Fuel (Giovanni's)	PHONE: 814-935-7219
ADDRESS:		DOT#
LOCATION OF INCIDENT: C	COUNTY: Clearfield	MUNICIPALITY: Bradford
HIGHWAY: PA 322 & 97	0	MILEMARKER:
DIRECTIONS:		
WHEN: 12/22/17; 2	2126	
this past week, Bolge	due to a suspected leak. Apparently, there or Bros. believes that there is a leak from the odland / Bigler FD as well as Bigler Boyz	e functional element on the top of the tank are on site conducting a survey of the area.
dispatched to the site this past week. Bolge Clearfield EMA, Wo The facility is current occupied dwellings in grounds, and collection Heberling that the fac	er Bros. believes that there is a leak from the odland / Bigler FD as well as Bigler Boyz at the closed due to the leak. According to Dictor the near vicinity and the area is served by on system will be surveyed for gasoline vapolity should remain closed until it is determed in built on a slab with no basement, however pe area will also be surveyed for vapor and	e functional element on the top of the tank are on site conducting a survey of the area. It has been been also be the street of Bigler Boyz there are no public water and sewer. The building, por. I advised the owner, fire chief and Mr mined that there are no gasoline vapors wer the area occupied by the facility is builting.
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cc;		
Program	Person	Date
ERIN-REP 3/96	Tom Mears	12/22/17
	Your Name	Date

nga.	TOM EC	8 COMON	" N		
		dlmu 1		EL	-
	indiction.		TANKS		+
* :				5	5
CHARLES	il Clen	Achy mun	cirality_	13/ Adter	Logo
COM	. dere 1 %				- /



1,2,4 - TRIMETHYLBENZENE

Water Solubility (WS)

Density (d)

Organic Carbon Coefficient (Koc)

Vapor Pressure (VP)

Lower Explosive Limit (LEL)

1. 1,2,4 - TRIMETHYLBENZENE (CAS 95-63-6)

WS = 56 ppm

d = 0.876 g/ml

Koc = 2,200

VP = 4.5 mm Hg @ 20°C

LEL = 9,ppm

1,2,4 – Trimethylbenze (TMB) is primarily released into the environment through spills of petroleum products. TMB is considered volatile, therefore when released onto surface water(s) and soil(s) TMB will be lost to evaporation and microbial degradation. The high Koc and low solubility values indicate that TMB has little affinity for water leading to the conclusion that TMB will largely remain in the soil in the event of a sub-surface release. Additionally, density (d) of TMB is less than 1 indicating it is lighter than water.

TMB is moderately toxic to humans targeting the nervous system. TMB is not classified as a carcinogen. The non-residential Statewide Health Standard established for TMB is 35 ppb in ground water.

1,3,5 - TRIMETHYLBENZENE

Water Solubility (WS)

Density (d)

Organic Carbon Coefficient (Koc)

Vapor Pressure (VP)

Lower Explosive Limit (LEL)

1,3,5 - TRIMETHYLBENZENE (CAS 108-67-8)

WS = 48.9 ppm

d = 0.8637 g/ml

Koc = 660

VP = 2 mm Hg @ 20°C

LEL = Not listed in Niosh Pocket Guide

1,3,5 – Trimethylbenze (TMB) is primarily released into the environment through spills of petroleum products. TMB is considered volatile, therefore when released onto surface water(s) and soil(s) TMB will be lost to evaporation and microbial degradation. The high Koc and low solubility values indicate that TMB has little affinity for water leading to the conclusion that TMB will largely remain in the soil in the event of a sub-surface release. Additionally, density (d) of TMB is less than 1 indicating it is lighter than water.

TMB is moderately toxic to humans targeting the nervous system. TMB is not classified as a carcinogen. The non-residential Statewide Health Standard established for TMB is 420 ppb in ground water.

BENZENE

Aqueous Solubility (AS) Specific Gravity (SG)

Organic Carbon Coefficient (Koc) Vapor Pressure (VP)

Degradation Coefficient (K)

Lower Explosive Limit (LEL)

Benzene (CAS 71-43-2) (Ref. 1)

AS = 1,780.5 mg/L (Ref. 1) SG = 0.88 (Ref. 2)

Koc = $58 \, (Ref. 1)$ VP = $75 \, mm \, Hg \, (Ref. 2)$

 $K = 0.35 (yr^{-1}) (Ref. 1)$ LEL = 1.2% (Ref. 2)

References:

 Department of Environmental Protection, Bureau of Land Recycling and Waste Management, Land Recycling and Cleanup Program. "Title 25. Environmental Protection, Department of Environmental Protection Chapter 250. Administration of Land Recycling Program," November 24, 2001.

 Department of Health and Human Services, Centers for Disease Control and Prevention and National Institute for Occupational and Health. <u>NIOSH Pocket Guide to</u> <u>Chemical Hazards</u> and Other Databases, Publication No. 2001-145, August 2001.

TOLUENE

Aqueous Solubility (AS) Specific Gravity (SG)

Organic Carbon Coefficient (Koc) Vapor Pressure (VP)

Degradation Coefficient (K)

Lower Explosive Limit (LEL)

Toluene (CAS 108-88-3) (Ref. 1)

AS = 532.4 mg/L (Ref. 1) SG = 0.87 (Ref. 2)

Koc = 130 (Ref. 1) VP = 21 mm Hg (Ref. 2)

 $K = 9.01 (yr^{-1}) (Ref. 1)$ LEL = 1.1% (Ref. 2)

References:

 Department of Environmental Protection, Bureau of Land Recycling and Waste Management, Land Recycling and Cleanup Program. "Title 25. Environmental Protection, Department of Environmental Protection Chapter 250. Administration of Land Recycling Program," November 24, 2001.

 Department of Health and Human Services, Centers for Disease Control and Prevention and National Institute for Occupational and Health. <u>NIOSH Pocket Guide to</u> <u>Chemical Hazards</u> and Other Databases, Publication No. 2001-145, August 2001.

ETHYLBENZENE

Aqueous Solubility (AS)

Specific Gravity (SG)

Organic Carbon Coefficient (Koc)

Vapor Pressure (VP)

Degradation Coefficient (K)

Lower Explosive Limit (LEL)

Ethylbenzene (CAS 100-41-4) (Ref. 1)

AS = 161 mg/L (Ref. 1)

SG = 0.87 (Ref. 2)

Koc = 220 (Ref. 1)

VP = 7 mm Hg (Ref.2)

 $K = 1.11 (yr^1) (Ref.1)$

LEL = 0.8% (Ref. 2)

References:

- Department of Environmental Protection, Bureau of Land Recycling and Waste Management, Land Recycling and Cleanup Program. "Title 25. Environmental Protection, Department of Environmental Protection Chapter 250. Administration of Land Recycling Program," November 24, 2001.
- Department of Health and Human Services, Centers for Disease Control and Prevention and National Institute for Occupational and Health. <u>NIOSH Pocket Guide to</u> <u>Chemical Hazards</u> and Other Databases, Publication No. 2001-145, August 2001.

XYLENES

Aqueous Solubility (AS) Specific Gravity (SG)

Organic Carbon Coefficient (Koc) Vapor Pressure (VP)

Degradation Coefficient (K)

Lower Explosive Limit (LEL)

Xylenes (total) (CAS 1330-20-7) (Ref. 1)

AS = 175 mg/L (Ref. 1) SG = 0.87 (average) (Ref. 2)

Koc = 350 (Ref. 1) VP = 8.3 mmHg (average) (Ref. 2)

 $K = 0.69 (yr^{-1}) (Ref. 1)$ LEL = 1.0% (average) (Ref. 2)

References:

 Department of Environmental Protection, Bureau of Land Recycling and Waste Management, Land Recycling and Cleanup Program. "Title 25. Environmental Protection, Department of Environmental Protection Chapter 250. Administration of Land Recycling Program," November 24, 2001.

 Department of Health and Human Services, Centers for Disease Control and Prevention and National Institute for Occupational and Health. <u>NIOSH Pocket Guide to</u> <u>Chemical Hazards</u> and Other Databases, Publication No. 2001-145, August 2001.

CUMENE

Aqueous Solubility (AS) Specific Gravity (SG)

Organic Carbon Coefficient (Koc) Vapor Pressure (VP)

Degradation Coefficient (K)

Lower Explosive Limit (LEL)

Cumene (CAS 98-82-8) (Ref. 1)

AS = 50 mg/L (Ref. 1) SG = 0.86 (Ref. 2)

Koc = 2800 (Ref. 1) VP = 8 mm Hg (Ref. 2)

= 15.81 (yr1) (Ref. 1) LEL = 0.9% (Ref. 2)

References:

 Department of Environmental Protection, Bureau of Land Recycling and Waste Management, Land Recycling and Cleanup Program. "Title 25. Environmental Protection, Department of Environmental Protection Chapter 250. Administration of Land Recycling Program," November 24, 2001.

 Department of Health and Human Services, Centers for Disease Control and Prevention and National Institute for Occupational and Health. <u>NIOSH Pocket Guide to</u> Chemical Hazards and Other Databases, Publication No. 2001-145, August 2001.

MTBE

Aqueous Solubility (AS)

Specific Gravity (SG)

Organic Carbon Coefficient (Koc)

Vapor Pressure (VP)

Degradation Coefficient (K)

Lower Explosive Limit (LEL)

Methyl-tert-butyl-ether (CAS 1634-04-4) (Ref. 1)

AS = 45000 (mg/L) (Ref. 1) SG = NL (Ref. 2) Koc = 12 (Ref. 1) VP = NL (Ref. 2) K = 0.693 (yr¹) (Ref. 1) LEL = NL (Ref. 2)

NL - Not Listed

References:

- Department of Environmental Protection, Bureau of Land Recycling and Waste Management, Land Recycling and Cleanup Program. "Title 25. Environmental Protection, Department of Environmental Protection Chapter 250. Administration of Land Recycling Program," November 24, 2001.
- Department of Health and Human Services, Centers for Disease Control and Prevention and National Institute for Occupational and Health. <u>NIOSH Pocket Guide to</u> <u>Chemical Hazards</u> and Other Databases, Publication No. 2001-145, August 2001.

NAPHTHALENE

Aqueous Solubility (AS) Specific Gravity (SG)

Organic Carbon Coefficient (Koc) Vapor Pressure (VP)

Degradation Coefficient (K)

Lower Explosive Limit (LEL)

Naphthalene (CAS 91-20-3) (Ref. 1)

AS = 30 mg/L (Ref. 1) SG = 1.15 (Ref. 2)

Koc = 950 (Ref. 1) VP = 0.08 mm Hg (Ref. 2)

 $K = 0.98 (yr^{-1}) (Ref. 1)$ LEL = 0.9% (Ref. 2)

References:

- Department of Environmental Protection, Bureau of Land Recycling and Waste Management, Land Recycling and Cleanup Program. "Title 25. Environmental Protection, Department of Environmental Protection Chapter 250. Administration of Land Recycling Program," November 24, 2001.
- Department of Health and Human Services, Centers for Disease Control and Prevention and National Institute for Occupational and Health. <u>NIOSH Pocket Guide to</u> <u>Chemical Hazards</u> and Other Databases, Publication No. 2001-145, August 2001.



APPENDIX D
EDR REGULATORY DATABASE REPORT

Woodland Food & Fuel 2829 Woodland Bigler Highway Woodland, PA 16881

Inquiry Number: 5151034.2s January 04, 2018

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800 352 0050 www.edrnet.com

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Thank you for your business. Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

2829 WOODLAND BIGLER HIGHWAY WOODLAND, PA 16881

COORDINATES

Latitude (North): 40.9995490 - 40° 59' 58.37" Longitude (West): 78.3465080 - 78° 20' 47.42"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 723181.5 UTM Y (Meters): 4541887.0

Elevation: 1614 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5949120 WALLACETON, PA

Version Date: 2013

5948746 LECONTES MILLS, PA

North Map: 594 Version Date: 201

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20150911 Source: USDA

MAPPED SITES SUMMARY

Target Property Address: 2829 WOODLAND BIGLER HIGHWAY WOODLAND, PA 16881

Click on Map ID to see full detail.

MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	WOODLAND FOOD & FUEL	ROUTE 322 & 970	LUST, UST, ARCHIVE UST	Higher	31, 0.006, NW
A2	SAMUEL J LANSBERRY	ROUTE 322 & 970	ARCHIVE UST	Higher	31, 0.006, NW
A3	SAMUEL LANDSBERRY IN	RTE 322 & 970	LUST, AST, RCRA NonGen / NLR, FINDS, ECHO	Higher	31, 0.006, NW

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

End	aral	NIDI	site	lict

NPL National Priority List

Proposed NPL Proposed National Priority List Sites NPL LIENS Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL National Priority List Deletions

Federal CERCLIS list

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS...... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF......RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG...... RCRA - Large Quantity Generators

RCRA-SQG RCRA - Small Quantity Generators
RCRA-CESQG RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS.....Land Use Control Information System US ENG CONTROLS...... Engineering Controls Sites List

Federal ERNS list ERNS..... Emergency Response Notification System State- and tribal - equivalent NPL SHWS..... Hazardous Sites Cleanup Act Site List HSCA..... HSCA Remedial Sites Listing State and tribal landfill and/or solid waste disposal site lists SWF/LF..... Operating Facilities State and tribal leaking storage tank lists State and tribal registered storage tank lists FEMA UST..... Underground Storage Tank Listing INDIAN UST...... Underground Storage Tanks on Indian Land State and tribal institutional control / engineering control registries

State and tribal voluntary cleanup sites

ENG CONTROLS Engineering Controls Site Listing
INST CONTROL Institutional Controls Site Listing
AUL Environmental Covenants Listing

US INST CONTROL...... Sites with Institutional Controls

State and tribal Brownfields sites

BROWNFIELDS. Brownfields Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

Abandoned Landfill Inventory INDIAN ODI. Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9. Torres Martinez Reservation Illegal Dump Site Locations
ODI. Open Dump Inventory
IHS OPEN DUMPS. Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

US CDL...... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

ARCHIVE AST..... Archived Aboveground Storage Tank Sites

Local Land Records

..... CERCLA Lien Information

ACT 2-DEED. Act 2-Deed Acknowledgment Sites

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS..... State spills

Other Ascertainable Records

FUDS..... Formerly Used Defense Sites

DOD. Department of Defense Sites
SCRD DRYCLEANERS.... State Coalition for Remediation of Drycleaners Listing

US FIN ASSUR..... Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

2020 COR ACTION 2020 Corrective Action Program List

TSCA Toxic Substances Control Act
TRIS Toxic Chemical Release Inventory System
SSTS Section 7 Tracking Systems

RMP..... Risk Management Plans

RAATS......RCRA Administrative Action Tracking System

PRP..... Potentially Responsible Parties PADS...... PCB Activity Database System

ICIS...... Integrated Compliance Information System

Act)/TSCA (Toxic Substances Control Act) Material Licensing Tracking System

COAL ASH DOE Steam-Electric Plant Operation Data

RADINFO...... Radiation Information Database

HIST FTTS...... FIFRA/TSCA Tracking System Administrative Case Listing

DOT OPS..... Incident and Accident Data

CONSENT. Superfund (CERCLA) Consent Decrees INDIAN RESERV. Indian Reservations

FUSRAP Formerly Utilized Sites Remedial Action Program UMTRA Uranium Mill Tailings Sites

LEAD SMELTERS..... Lead Smelter Sites

US AIRS...... Aerometric Information Retrieval System Facility Subsystem

..... Mines Master Index File

ABANDONED MINES..... Abandoned Mines

FINDS...... Facility Index System/Facility Registry System

Enforcement & Compliance History Information

Unexploded Ordnance Sites

FUELS PROGRAM..... EPA Fuels Program Registered Listing

DRYCLEANERS...... Drycleaner Facility Locations

MANIFEST...... Manifest Information

MINES..... MINES

NPDES...... NPDES Permit Listing UIC..... Underground Injection Wells

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF	Recovered Government Archive Solid Waste Facilities List
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in bold italics are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Resources' List of Confirmed Releases.

A review of the LUST list, as provided by EDR, and dated 09/12/2017 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WOODLAND FOOD & FUEL Facility Id: 587827	ROUTE 322 & 970	NW 0 - 1/8 (0.006 mi.)	A1	8
SAMUEL LANDSBERRY IN Facility Id: 587826	RTE 322 & 970	NW 0 - 1/8 (0.006 mi.)	A3	11

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA), The data come from the Department of Environmental Resources' Regulated Underground Storage Tank Listing.

A review of the UST list, as provided by EDR, and dated 09/01/2017 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WOODLAND FOOD & FUEL	ROUTE 322 & 970	NW 0 - 1/8 (0.006 ml.)	At	8
Site ID: 570699				

AST: The Aboveground Storage Tank database contains registered ASTs from the Department of Environmental Protection's Listing of Pennsylvania Regulated Aboveground Storage Tanks.

A review of the AST list, as provided by EDR, and dated 09/01/2017 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAMUEL LANDSBERRY IN Site ID: 570698	RTE 322 & 970	NW 0 - 1/8 (0.005 mi.)	A3	11
Tank Status: C				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

ARCHIVE UST: The list includes tanks storing highly hazardous substances that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

A review of the ARCHIVE UST list, as provided by EDR, and dated 09/12/2017 has revealed that there are 2 ARCHIVE UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WOODLAND FOOD & FUEL	ROUTE 322 & 970	NW 0 - 1/8 (0.006 mi.)	A1	8

Facility Id: 17-70935

SAMUEL J LANSBERRY Status: Closed Without a Permit Facility Id: 17-70933 **ROUTE 322 & 970**

NW 0 - 1/8 (0.006 mi,)

A2

10

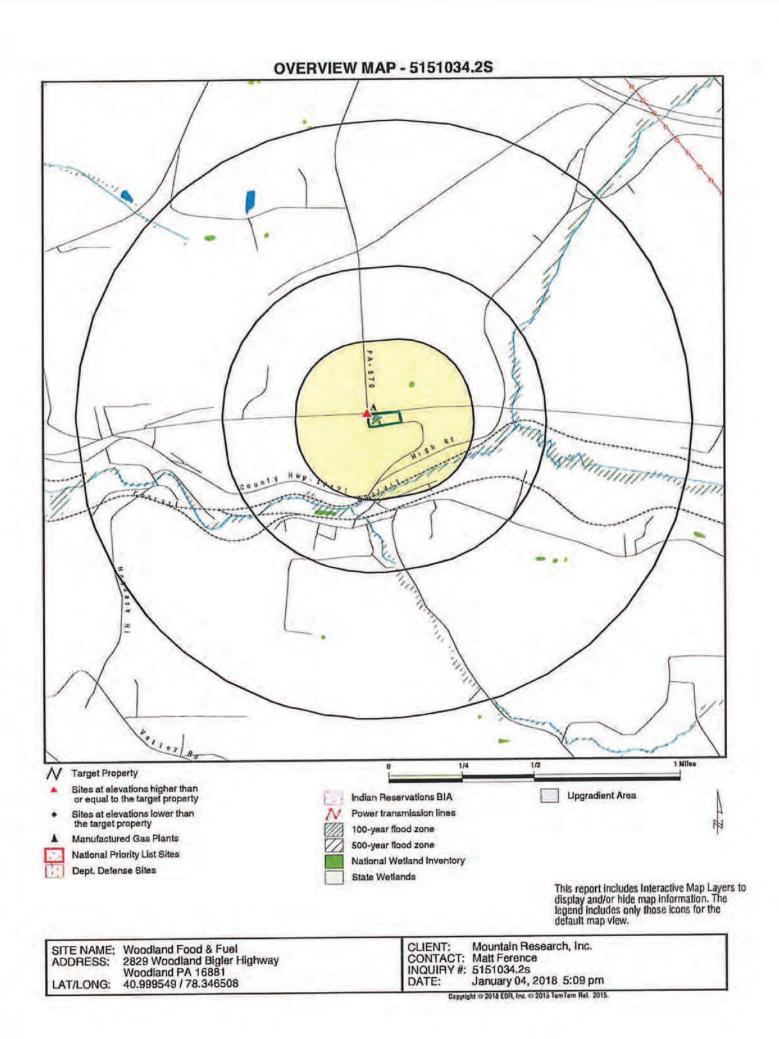
Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

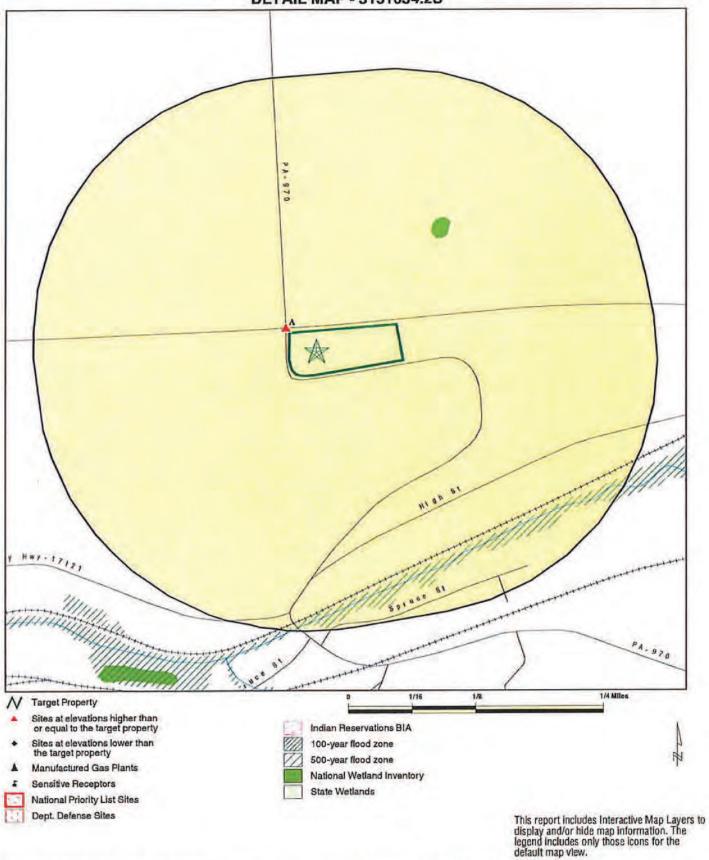
A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/13/2017 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
SAMUEL LANDSBERRY IN	RTE 322 & 970	NW 0 - 1/8 (0.006 mi.)	A3	11	

There were no unmapped sites in this report.



DETAIL MAP - 5151034.2S



SITE NAME: Woodland Food & Fuel ADDRESS: 2829 Woodland Bigler Highway Woodland PA 16881 LAT/LONG: 40.999549 / 78.346508

CLIENT: Mountain Research, Inc.
CONTACT: Matt Ference
INQUIRY#: 5151034.2s
DATE: January 04, 2018 5:10 pm

Copyright @ 2018 EDR, Inc. @ 2015 Tom Tom Rel. 2015.

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
STANDARD ENVIRONMEN	ITAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0
Federal Delisted NPL si	ite list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0	0	0	NR NR	NR NR	0
Federal CERCLIS NFRA	P site list							
SEMS-ARCHIVE	0,500		0	0	0	NR	NR	0
Federal RCRA CORRAC	CTS facilities I	ist						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COF	RRACTS TSD	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generato	ors list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0	0	NR NR NR	NR NR NR	NR NR NR	0
Federal Institutional co-								
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0	0 0	0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiv	alent NPL							
SHWS HSCA	1.000 1.000		0	0	0	0	NR NR	0
State and tribal landfill solid waste disposal sit	and/or te lists							
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking	storage tank	lists						
LUST LAST INDIAN LUST	0.500 0.500 0.500		2 0 0	0 0	0 0 0	NR NR NR	NR NR NR	2 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1_	Total Plotted
UNREG LTANKS	0.500		0	0	Ó	NR	NR	0
State and tribal registe	red storage tal	nk lists						
FEMA UST UST AST INDIAN UST	0.250 0.250 0.250 0.250		0 1 1 0	0 0 0	NR NR NR NR	NR NR NR	NR NR NR	0 1 1 0
State and tribal institut control / engineering co		es.						
ENG CONTROLS INST CONTROL AUL	0.500 0.500 0.500		0 0	0 0 0	0 0	NR NR NR	NR NR NR	0 0 0
State and tribal volunta	ary cleanup sit	es						
VCP INDIAN VCP	0.500 0.500		0	0	0	NR NR	NR NR	0
State and tribal Brown	fields sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONME	ENTAL RECORD	S						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Waste Disposal Sites	Solid							
HIST LF INDIAN ODI DEBRIS REGION 9 ODI IHS OPEN DUMPS	0.500 0.500 0.500 0.500 0.500		0 0 0 0	0 0 0 0	0 0 0	NR NR NR NR	NR NR NR NR NR	0 0 0
Local Lists of Hazardo Contaminated Sites	us waste/							
US HIST CDL US CDL	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0
Local Lists of Register	ed Storage Tai	nks						
ARCHIVE UST ARCHIVE AST	0.250 TP		2 NR	0 NR	NR NR	NR NR	NR NR	0
Local Land Records								
LIENS 2 ACT 2-DEED	TP 0.500		NR 0	NR 0	NR 0	NR NR	NR NR	0
Records of Emergency	Release Repo	orts						
HMIRS SPILLS	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Other Ascertainable Rec	ords							
RCRA NonGen / NLR	0.250		1	0	NR.	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	Ö
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	o.
Children Tillians and	TP		NR	NR	NR	NR	NR	0
RAATS							0000	0
PRP	TP		NR	NR	NR	NR	NR	
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		Ö	Ö	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
			0	0	NR	NR	NR	0
FUELS PROGRAM	0.250			S. Daniel		8,000	2.5.0	0
AIRS	TP		NR	NR	NR	NR	NR	(7)
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICA	L RECORDS							
EDR Exclusive Records								

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
EDR Hist Auto EDR Hist Cleaner	0.125 0.125		0	NR NR	NR NR	NR NR	NR NR	0
EDR RECOVERED GOV	J. Fant Jan.							
Charles and the control of			410	NID	ND	MD	MD	0
RGA HWS	TP		NR	NR	NR NR	NR NR	NR NR	0
RGA LF RGA LUST	TP		NR NR	NR NR	NR	NR	NR	0
- Totals		0	7	0	0	0	0	7

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS Map ID

Direction Distance

Elevation Site

EDR ID Number EPA ID Number Database(s)

U001101251

N/A

LUST

UST

ARCHIVE UST

WOODLAND FOOD & FUEL A1 NW

ROUTE 322 & 970 WOODLAND, PA 16881

< 1/8 0.006 mi.

31 ft. Site 1 of 3 in cluster A

Relative: Higher

LUST: EP NC Rgnl Off Williamsport Region: Municipality: Bradford Twp

Actual: 1621 ft.

587827 Facility Id: Facility Type: Facility Status: Underground Storage Tank Containing Petroleum

Cleanup Completed Status Date: 08/15/1995 08/05/1989 Confirmed Date: Program Other Id: 17-70935

WOODLAND FOOD & FUEL INC Client:

Incident Id: 16444

WOODLAND FOOD & FUEL INC Incident Desc:

Suspect Date: Not reported Not reported Source Of Notification: Release Discovered: Not reported Not reported Source Cause Of Release: Not reported Tank: Soil

Impact Desc: Substance: Unleaded Gasoline CAS RN: Not reported Chemical: Not reported

Not reported Comments:

Horizontal Ref Datum: Not reported Not reported Altitude Datum: Latitude: Not reported Not reported Longitude:

UST:

570699 Site ID: Other Id: 17-70935 176750 Client Id Number: Municipality Name: Bradford

EP NC Rgnl Off Williamsport Region: WOODLAND FOOD & FUEL INC Mailing Name:

ROUTE 322 & 970 Malling Address: **PO BOX 310A** Mailing Address 2: WOODLAND, PA 16881 Mailing City, St, Zip:

08/04/2018 Registration Expiration Date:

Tank Seg No: 001

Currently In Use Tank Status:

Capacity: 8000 Substance: Gasoline 06/01/1987 Date Installed: UST Tank Code:

Inspection Code: Facility Operation Inspection

03/15/2016 Tank Last Dt Inspected: Decode for Tstatus: Currently In Use Gasoline Decode for Substance:

Tank Seq No:

002

Currently In Use Tank Status:

Site

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

U001101251

WOODLAND FOOD & FUEL (Continued)

Capacity: Gasoline Substance: Date Installed: 06/01/1987 UST

Tank Code:

Inspection Code: Facility Operation Inspection

03/15/2016 Tank Last Dt Inspected: Decode for Tstatus: Currently In Use Gasoline Decode for Substance:

Tank Seg No: 003

Currently In Use Tank Status:

Capacity: 4000 Gasoline Substance: 06/01/1987 Date Installed: UST Tank Code:

Facility Operation Inspection Inspection Code:

Tank Last Dt Inspected: 03/15/2016 Decode for Tstatus: Currently In Use Gasoline Decode for Substance:

Tank Seg No: Tank Status: 004 Currently In Use

4000 Capacity: Substance: Kerosene 06/01/1987 Date Installed:

UST Tank Code:

Facility Operation Inspection Inspection Code:

Tank Last Dt Inspected: 03/15/2016 Currently In Use Decode for Tstatus: Kerosene Decode for Substance:

ARCHIVE UST:

17-70935 Facility Id: Not reported Site ID: Bradford Twp Municipality: Not reported Client Date: Not reported Owner Id:

WOODLAND FOOD & FUEL INC Owner Name:

PO BOX 310A Owner Address: **ROUTE 322 & 970** Owner Address 2: WOODLAND, PA 16881 Owner City, St, Zip:

Owner Phone: Not reported Not reported Owner County Code: Not reported Resp Party Name: Not reported RP Address: Not reported RP Address 2: Not reported RP City, St, Zip: Region Code Name: Not reported Not reported Regulated Expire Date:

Tank Sequence #:

Not reported Tank Id: Closed Without a Permit

Status: Status Code End Date: Not reported

005

1000 Capacity:

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

U001101251

Site

WOODLAND FOOD & FUEL (Continued)

Kerosene

Substance: Not reported Tank Substance End Date: 09/01/1987 Install Date: UST

Tank Code: Not reported Inspection Code: Not reported Last Inspection:

Substance Type:

CASRN for Hazardous Substances: Not reported Not reported Chemical Name: Other Information Regarding The Tank Substance: Not reported

Undeliverable Address Ind.:

UNKNOWN Contact Name: Company: Not reported

> ARCHIVE UST S119698505 N/A

A2 SAMUEL J LANSBERRY **ROUTE 322 & 970** NW WOODLAND, PA 16881 < 1/8 0.006 mi.

Site 2 of 3 in cluster A 31 ft.

ARCHIVE UST: Relative: 17-70933 Facility Id: Higher Not reported Site ID: Bradford Twp Actual: Municipality:

1621 ft. Not reported Client Date: Not reported Owner Id:

SAMUEL J LANSBERRY INC Owner Name: 507 SHAWVILLE HWY Owner Address:

Owner Address 2: Not reported

WOODLAND, PA 16881-8405 Owner City, St, Zip: Owner Phone: Not reported

Not reported Owner County Code: Resp Party Name: Not reported Not reported RP Address: Not reported RP Address 2: Not reported RP City,St,Zip: Region Code Name: Not reported Not reported Regulated Expire Date:

002 Tank Sequence #: Not reported Tank Id:

Closed Without a Permit Status:

Status Code End Date: Not reported 6000 Capacity: Diesel Fuel Substance: Not reported Tank Substance End Date: 07/01/1978 Install Date: UST Tank Code: Inspection Code: Not reported Not reported Last Inspection: Substance Type:

CASRN for Hazardous Substances: Not reported Chemical Name: Not reported Not reported Other Information Regarding The Tank Substance:

Undeliverable Address Ind.:

SAMUEL JONATHAN LANSBERRY PRES Contact Name:

Not reported Company:

Site

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

S119698505

SAMUEL J LANSBERRY (Continued)

Tank Sequence #:

Tank Id:

Status:

Status Code End Date: Capacity: Substance:

Tank Substance End Date: Install Date:

Tank Code: Inspection Code: Last Inspection: Substance Type:

CASRN for Hazardous Substances:

Chemical Name: Other Information Regarding The Tank Substance:

Undeliverable Address Ind.;

Contact Name: Company:

001

Not reported

Closed Without a Permit

Not reported 4000 Diesel Fuel Not reported 07/01/1978

UST Not reported Not reported

Not reported Not reported

Not reported

Underground Storage Tank Containing Petroleum

SAMUEL JONATHAN LANSBERRY PRES

Not reported

SAMUEL LANDSBERRY INC RTE 322 & 970

WOODLAND, PA 16881

0.006 mi. 31 ft. Site 3 of 3 in cluster A LUST:

Bradford Two

08/05/1989

Not reported Not reported

Not reported

Not reported

Not reported

Not reported

Not reported

Soil Diesel Fuel

17-70933

16449 2 USTS PULL

587826

EP NC Rgnl Off Williamsport

SAMUEL J LANSBERRY INC

Cleanup Completed 03/09/1999

Relative:

A3

NW

< 1/8

Higher Actual:

1621 ft.

Region:

Municipality:

Facility Id:

Facility Type:

Facility Status:

Status Date:

Confirmed Date: Program Other Id:

Client:

Incident Id:

Incident Desc: Suspect Date:

Source Of Notification: Release Discovered: Source Cause Of Release:

Tank: Impact Desc: Substance:

CAS RN: Chemical:

Comments:

Horizontal Ref Datum: Altitude Datum: Latitude: Longitude:

Not reported

Not reported Not reported Not reported Not reported

AST:

Site ID: Client Id: Other Id:

Mailing Name:

570698 121096

17-70933 SAMUEL J LANSBERRY INC **ECHO**

FINDS

LUST

AST

RCRA NonGen / NLR

1000695392

PAD987379377

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

1000695392

Site

SAMUEL LANDSBERRY INC (Continued)

PO BOX 58 Mailing Address:

ROUTE 322 & 970 Mailing Address:

WOODLAND, PA 16881-0058 Mailing City, St, Zip: Municipality: Bradford

EP NC Rgnl Off Williamsport Region Name:

001A Tank Seq Num:

Tank Status: Currently In Use

10000 Tank Capacity: Diesel Fuel Substance: 07/20/1998 Date Installed: Tank Code: AST Inspection Code: In Service 11/17/2009 Tank Last Inspected: Registration Expiration Date: 08/04/2018 Currently In Use Decode for Tstatus: Diesel Fuel

Decode for Substance:

RCRA NonGen / NLR:

Date form received by agency: 10/02/2008

SAMUEL LANDSBERRY INC Facility name:

RTE 322 & 970 Facility address:

WOODLAND, PA 16881

PAD987379377 EPA ID:

PO BOX 58 Mailing address:

WOODLAND, PA 16881

Contact: SAMUEL LANSBERRY PO BOX 58 Contact address:

WOODLAND, PA 16881

Contact country: US

814-857-7651 Contact telephone: Contact email: Not reported

EPA Region: 03

Land type: Other land type Classification: Non-Generator

Handler: Non-Generators do not presently generate hazardous waste Description:

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz, and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No No On-site burner exemption: Furnace exemption: No No Used oil fuel burner: Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 06/01/1992

Site

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

1000695392

SAMUEL LANDSBERRY INC (Continued)

Site name:

SAMUEL J LANSBERRY INC

Classification:

Not a generator, verified

Violation Status:

No violations found

Evaluation Action Summary:

Evaluation date:

05/13/2004

Evaluation:

COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Date achieved compliance: Not reported Not reported

Evaluation lead agency:

State

Evaluation date:

09/22/2003

Evaluation:

COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Date achieved compliance: Not reported Not reported State

Evaluation lead agency:

Evaluation date:

04/26/2002 COMPLIANCE EVALUATION INSPECTION ON-SITE

Evaluation: Area of violation:

Not reported

Date achieved compliance:

Not reported

Evaluation lead agency:

State

Evaluation date:

05/03/2001

Evaluation:

COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Date achieved compliance: Not reported Not reported

Evaluation lead agency:

State

Evaluation date:

11/10/1999

Evaluation:

COMPLIANCE EVALUATION INSPECTION ON-SITE Not reported

Area of violation: Date achieved compliance:

Not reported

Evaluation lead agency:

State

Evaluation date: Evaluation:

03/04/1997 COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Not reported Not reported

Date achieved compliance:

Evaluation lead agency:

State

FINDS:

Registry ID:

110007791755

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

PA-EFACTS (Pennsylvania - Environmental Facility Application Compliance Tracking System) is a Department-wide database that provides a holistic view of clients and sites (including facilities)

Site

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

SAMUEL LANDSBERRY INC (Continued)

that DEP regulates.

1000695392

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: Registry ID: DFR URL: 1000695392 110007791755

http://echo.epa.gov/detailed-facility-report?fid=110007791755

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Count 0 records.

Database(s)	
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EDR ID	
City	

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/10/2017 Date Data Arrived at EDR: 11/03/2017

Date Made Active in Reports: 12/15/2017 Number of Days to Update: 42

Source: EPA Telephone: N/A

Last EDR Contact: 12/22/2017

Next Scheduled EDR Contact: 04/16/2018 Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143

EPA Region 3

Telephone 215-814-5418

EPA Region 4

Telephone 404-562-8033

EPA Region 5

Telephone 312-886-6686

EPA Region 10

Telephone 206-553-8665

EPA Region 6

Telephone: 214-655-6659

EPA Region 7

Telephone: 913-551-7247

EPA Region B

Telephone: 303-312-6774

EPA Region 9

Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/10/2017 Date Data Arrived at EDR: 11/03/2017

Date Made Active in Reports: 12/15/2017

Number of Days to Update: 42

Source: EPA Telephone: N/A

Last EDR Contact: 12/22/2017

Next Scheduled EDR Contact: 04/16/2018 Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA

Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/10/2017 Date Data Arrived at EDR: 11/03/2017

Date Made Active in Reports: 12/15/2017

Number of Days to Update: 42

Source: EPA Telephone: N/A

Last EDR Contact: 12/22/2017

Next Scheduled EDR Contact: 04/16/2018 Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Llability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016 Date Data Arrived at EDR: 01/05/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 92

Source: Environmental Protection Agency Telephone: 703-603-8704 Last EDR Contact: 10/06/2017

Next Scheduled EDR Contact: 01/15/2018 Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/11/2017 Date Data Arrived at EDR: 07/21/2017 Date Made Active in Reports: 10/06/2017

Number of Days to Update: 77

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 12/22/2017

Next Scheduled EDR Contact: 01/29/2018 Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/11/2017 Date Data Arrived at EDR: 07/28/2017 Date Made Active in Reports; 10/06/2017

Number of Days to Update: 70

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 12/22/2017

Next Scheduled EDR Contact: 01/29/2018 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/13/2017 Date Data Arrived at EDR: 09/26/2017 Date Made Active in Reports: 10/06/2017

Number of Days to Update: 10

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 12/26/2017

Next Scheduled EDR Contact: 04/09/2018 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/13/2017 Date Data Arrived at EDR: 09/26/2017 Date Made Active in Reports: 10/06/2017

Number of Days to Update: 10

Source: Environmental Protection Agency

Telephone: 800-438-2474 Last EDR Contact: 12/26/2017

Next Scheduled EDR Contact: 04/09/2018 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2017 Date Data Arrived at EDR: 09/26/2017 Date Made Active in Reports: 10/06/2017

Number of Days to Update: 10

Source: Environmental Protection Agency

Telephone: 800-438-2474 Last EDR Contact: 12/26/2017

Next Scheduled EDR Contact: 04/09/2018 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/13/2017 Date Data Arrived at EDR: 09/26/2017 Date Made Active in Reports: 10/06/2017 Number of Days to Update: 10

Source: Environmental Protection Agency Telephone: 800-438-2474 Last EDR Contact: 12/26/2017 Next Scheduled EDR Contact: 04/09/2018 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA), Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2017 Date Data Arrived at EDR: 09/26/2017 Date Made Active in Reports: 10/06/2017 Number of Days to Update: 10

Source: Environmental Protection Agency Telephone: 800-438-2474 Last EDR Contact: 12/26/2017 Next Scheduled EDR Contact: 04/09/2018 Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/22/2017 Date Data Arrived at EDR: 06/13/2017 Date Made Active in Reports: 09/15/2017

Number of Days to Update: 94

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 11/08/2017

Next Scheduled EDR Contact: 02/26/2018 Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/10/2017 Date Data Arrived at EDR: 08/30/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 44

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 11/27/2017

Next Scheduled EDR Contact: 03/12/2018 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/10/2017 Date Data Arrived at EDR: 08/30/2017 Date Made Active in Reports: 10/13/2017 Number of Days to Update: 44

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 11/27/2017

Next Scheduled EDR Contact: 03/12/2018 Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/18/2017 Date Data Arrived at EDR: 09/21/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 22

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 12/28/2017

Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

SHWS: Hazardous Sites Cleanup Act Site List

The Hazardous Sites Cleanup Act Site List includes sites listed on PA Priority List, sites delisted from PA Priority

List, Interim Response Completed sites, and Sites Being Studied or Response Being Planned.

Date of Government Version: 10/17/2017 Date Data Arrived at EDR: 10/18/2017 Date Made Active in Reports: 12/14/2017

Number of Days to Update: 57

Source: Department Environmental Protection

Telephone: 717-783-7816 Last EDR Contact: 10/18/2017

Next Scheduled EDR Contact: 01/29/2018 Data Release Frequency: Quarterly

HSCA: HSCA Remedial Sites Listing

A list of remedial sites on the PA Priority List. This is the PA state equivalent of the federal NPL superfund list.

Date of Government Version: 07/27/2017 Date Data Arrived at EDR: 09/21/2017 Date Made Active in Reports: 09/25/2017 Number of Days to Update: 4

Source: Department of Environmental Protection Telephone: 717-783-7816 Last EDR Contact: 10/20/2017 Next Scheduled EDR Contact: 01/29/2018

Data Release Frequency: Varies

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Operating Facilities

The listing includes Municipal Waste Landfills, Construction/Demolition Waste Landfills and Waste-to-Energy Facilities.

Date of Government Version: 11/20/2017 Date Data Arrived at EDR: 11/22/2017 Date Made Active in Reports: 12/14/2017

Number of Days to Update: 22

Source: Department of Environmental Protection

Telephone: 717-787-7564 Last EDR Contact: 11/20/2017

Next Scheduled EDR Contact: 03/05/2018 Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LAST: Storage Tank Release Sites

Leaking Aboveground Storage Tank Incident Reports.

Date of Government Version: 09/12/2017 Date Data Arrived at EDR: 09/13/2017 Date Made Active in Reports: 09/25/2017 Number of Days to Update: 12 Source: Department of Environmental Protection

Telephone: 717-783-7509 Last EDR Contact: 12/13/2017

Next Scheduled EDR Contact: 03/26/2018 Data Release Frequency: Semi-Annually

LUST: Storage Tank Release Sites

Leaking Underground Storage Tank Incident Reports, LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 09/12/2017 Date Data Arrived at EDR: 09/13/2017 Date Made Active in Reports: 09/25/2017 Number of Days to Update: 12

Source: Department of Environmental Protection Telephone: 717-783-7509 Last EDR Contact: 12/13/2017 Next Scheduled EDR Contact: 03/26/2018 Data Release Frequency: Semi-Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/26/2017 Date Data Arrived at EDR: 07/27/2017 Date Made Active in Reports: 10/13/2017 Number of Days to Update: 78

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 10/27/2017

Source: EPA Region 6

Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/24/2017 Date Data Arrived at EDR: 07/27/2017 Date Made Active in Reports: 10/06/2017

Number of Days to Update: 71

Telephone: 214-665-6597 Last EDR Contact: 10/27/2017

Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2017 Date Data Arrived at EDR: 07/27/2017 Date Made Active in Reports: 10/06/2017 Number of Days to Update: 71

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 10/27/2017 Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016 Date Data Arrived at EDR: 01/27/2017 Date Made Active in Reports: 05/05/2017 Number of Days to Update: 98

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 10/27/2017

Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/25/2017 Date Data Arrived at EDR: 11/07/2017 Date Made Active in Reports: 12/08/2017 Number of Days to Update: 31

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 11/07/2017 Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/13/2017 Date Data Arrived at EDR: 07/27/2017 Date Made Active in Reports: 10/13/2017 Number of Days to Update: 78

Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 10/27/2017 Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/01/2017 Date Data Arrived at EDR: 07/27/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 78

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 10/27/2017

Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/14/2017 Date Data Arrived at EDR: 07/27/2017 Date Made Active in Reports: 10/06/2017

Number of Days to Update: 71

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/27/2017

Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Varies

UNREG LTANKS: Unregulated Tank Cases

Leaking storage tank cases from unregulated storage tanks.

Date of Government Version: 04/12/2002 Date Data Arrived at EDR: 08/14/2003 Date Made Active in Reports: 08/29/2003

Number of Days to Update: 15

Source: Department of Environmental Protection

Telephone: 717-783-7509 Last EDR Contact: 08/14/2003 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017 Date Data Arrived at EDR: 05/30/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 136

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 10/13/2017

Next Scheduled EDR Contact: 01/22/2018 Data Release Frequency: Varies

UST: Listing of Pennsylvania Regulated Underground Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/01/2017 Date Data Arrived at EDR: 09/13/2017 Date Made Active in Reports: 10/09/2017

Number of Days to Update: 26

Source: Department of Environmental Protection

Telephone: 717-772-5599 Last EDR Contact: 12/13/2017

Next Scheduled EDR Contact: 03/26/2018 Dala Release Frequency: Varies

AST: Listing of Pennsylvania Regulated Aboveground Storage Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 09/01/2017 Date Data Arrived at EDR: 09/13/2017 Date Made Active in Reports: 10/09/2017

Number of Days to Update: 26

Source: Department of Environmental Protection

Telephone: 717-772-5599 Last EDR Contact: 12/13/2017

Next Scheduled EDR Contact: 03/26/2018 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016 Date Data Arrived at EDR: 01/27/2017 Date Made Active in Reports: 05/05/2017

Number of Days to Update: 98

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 10/27/2017

Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/14/2017 Date Data Arrived at EDR: 07/27/2017 Date Made Active in Reports: 10/06/2017

Number of Days to Update: 71

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/27/2017

Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency; Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/24/2017 Date Data Arrived at EDR: 07/27/2017 Date Made Active in Reports: 12/08/2017

Number of Days to Update: 134

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact; 10/27/2017

Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/26/2017 Date Data Arrived at EDR: 07/27/2017 Date Made Active in Reports: 10/06/2017

Number of Days to Update: 71

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 10/27/2017

Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/25/2017 Date Data Arrived at EDR: 07/27/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 78

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 10/27/2017

Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/13/2017 Date Data Arrived at EDR: 07/27/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 78

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 10/27/2017

Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/01/2017 Date Data Arrived at EDR: 07/27/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 78

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 10/27/2017

Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/02/2017 Date Data Arrived at EDR: 07/27/2017 Date Made Active in Reports: 10/06/2017 Number of Days to Update: 71

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 10/27/2017 Next Scheduled EDR Contact: 02/05/2018

Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Site Listing

Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/15/2008 Date Data Arrived at EDR: 05/16/2008 Date Made Active in Reports: 06/12/2008 Number of Days to Update: 27 Source: Department of Environmental Protection

Telephone: 717-783-9470 Last EDR Contact: 10/17/2017

Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: No Update Planned

INST CONTROL: Institutional Controls Site Listing

Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/15/2008 Date Data Arrived at EDR: 05/16/2008 Date Made Active in Reports: 06/12/2008 Number of Days to Update: 27 Source: Department of Environmental Protection Telephone; 717-783-9470 Last EDR Contact: 10/17/2017

Next Scheduled EDR Contact: 01/29/2018

Data Release Frequency: No Update Planned

AUL: Environmental Covenants Listing
A listing of sites with environmental covenants.

Date of Government Version: 10/16/2017 Date Data Arrived at EDR: 10/18/2017 Date Made Active in Reports: 12/14/2017 Number of Days to Update: 57 Source: Department of Environmental Protection

Telephone: 717-783-7509 Last EDR Contact: 10/18/2017

Next Scheduled EDR Contact: 01/29/2018 Data Release Frequency; Quarterly

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Sites

The VCP listings included Completed Sites, Sites in Progress and Act 2 Non-Use Aquifer Determinations Sites. Formerly known as the Act 2, the Land Recycling Program encourages the voluntary cleanup and reuse of contaminated commercial and industrial sites.

Date of Government Version: 10/10/2017 Date Data Arrived at EDR: 10/11/2017 Date Made Active in Reports: 11/14/2017

Number of Days to Update: 34

Source: Department of Environmental Protection

Telephone: 717-783-2388 Last EDR Contact: 10/11/2017

Next Scheduled EDR Contact: 01/22/2018 Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015 Date Data Arrived at EDR: 09/29/2015 Date Made Active in Reports: 02/18/2016

Number of Days to Update: 142

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 12/20/2017

Next Scheduled EDR Contact: 04/09/2018 Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites

Brownfields are generally defined as abandoned or underused industrial or commercial properties where redevelopment is complicated by actual or perceived environmental contamination. Brownfields vary in size, location, age and past use. They can range from a small, abandoned corner gas station to a large, multi-acre former manufacturing plant that has been closed for years.

Date of Government Version: 10/17/2017 Date Data Arrived at EDR: 10/18/2017 Date Made Active in Reports: 12/15/2017

Number of Days to Update: 58

Source: Department of Environmental Protection

Telephone: 717-783-1566 Last EDR Contact: 10/18/2017

Next Scheduled EDR Contact; 01/29/2018 Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 08/21/2017 Date Data Arrived at EDR: 09/20/2017 Date Made Active in Reports: 12/08/2017

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 12/19/2017

Next Scheduled EDR Contact: 04/02/2018 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF INVENTORY: Facility Inventory

A listing of solid waste facilities. This listing is no longer updated or maintained by the Department of Environmental Protection. At the time the listing was available, the DEP?s name was the Department of Environmental Resources.

Date of Government Version: 06/02/1999 Date Data Arrived at EDR: 07/12/2005 Date Made Active in Reports: 08/11/2005

Number of Days to Update: 30

Source: Department of Environmental Protection

Telephone: 717-787-7381 Last EDR Contact: 09/19/2005

Next Scheduled EDR Contact: 12/19/2005 Data Release Frequency: No Update Planned

HIST LF INACTIVE: Inactive Facilities List

A listing of inactive non-hazardous facilities (10000 & 300000 series). This listing is no longer updated or maintained by the Department of Environmental Protection. At the time the listing was available, the DEP?s name was the Department of Environmental Resources.

Date of Government Version: 12/20/1994 Date Data Arrived at EDR: 07/12/2005 Date Made Active in Reports: 08/11/2005 Number of Days to Update: 30 Source: Department of Environmental Protection

Telephone: 717-787-7381 Last EDR Contact: 06/21/2005

Next Scheduled EDR Contact: 12/19/2005 Data Release Frequency: No Update Planned

HIST LF ALI: Abandoned Landfill Inventory

The report provides facility information recorded in the Pennsylvania Department of Environmental Protection ALI database. Some of this information has been abstracted from old records and may not accurately reflect the current conditions and status at these facilities

Date of Government Version: 01/04/2005 Date Data Arrived at EDR: 01/04/2005 Date Made Active in Reports: 02/04/2005 Number of Days to Update: 31 Source: Department of Environmental Protection Telephone: 717-787-7564 Last EDR Contact: 11/26/2012 Next Scheduled EDR Contact: 03/11/2013 Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency Telephone: 703-308-8245

Last EDR Contact: 10/30/2017

Next Scheduled EDR Contact: 02/12/2018 Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009 Number of Days to Update: 137 Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 10/20/2017

Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004 Number of Days to Update: 39 Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014 Date Data Arrived at EDR: 08/06/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 11/03/2017

Next Scheduled EDR Contact: 02/12/2018 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 07/13/2017 Date Data Arrived at EDR: 09/06/2017 Date Made Active in Reports: 10/06/2017

Number of Days to Update: 30

Telephone: 202-307-1000 Last EDR Contact: 11/28/2017

Next Scheduled EDR Contact: 03/12/2018 Data Release Frequency: No Update Planned

Source: Drug Enforcement Administration

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/13/2017 Date Data Arrived at EDR: 09/06/2017 Date Made Active in Reports: 10/06/2017 Number of Days to Update: 30

Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 11/28/2017

Next Scheduled EDR Contact: 03/12/2018 Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

ARCHIVE UST: Archived Underground Storage Tank Sites

The list includes tanks storing highly hazardous substances that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

Date of Government Version: 09/12/2017 Date Data Arrived at EDR: 09/13/2017 Date Made Active in Reports: 10/09/2017 Number of Days to Update: 26

Source: Department of Environmental Protection Telephone: 717-772-5599 Last EDR Contact: 12/11/2017

Next Scheduled EDR Contact: 03/26/2018 Data Release Frequency: Varies

ARCHIVE AST: Archived Aboveground Storage Tank Sites

The list includes aboveground tanks with a capacity greater than 21,000 gallons that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

Date of Government Version: 09/12/2017 Date Data Arrived at EDR: 09/13/2017 Date Made Active in Reports: 10/09/2017 Number of Days to Update: 26

Source: Department of Environmental Protection Telephone: 717-772-5599 Last EDR Contact: 12/11/2017

Next Scheduled EDR Contact: 03/26/2018 Data Release Frequency: Varies

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/11/2017 Date Data Arrived at EDR: 07/26/2017 Date Made Active in Reports: 10/13/2017 Number of Days to Update: 79

Telephone: 202-564-6023 Last EDR Contact: 12/22/2017 Next Scheduled EDR Contact: 02/05/2018

Data Release Frequency: Semi-Annually

Source: Environmental Protection Agency

ACT 2-DEED: Act 2-Deed Acknowledgment Sites

This listing pertains to sites where the Department has approved a cleanup requiring a deed acknowledgment under Act 2. This list includes sites remediated to a non-residential Statewide health standard (Section 303(g)); all sites demonstrating attainment of a Site-specific standard (Section 304(m)); and sites being remediated as a special industrial area (Section 305(g)). Persons who remediated a site to a standard that requires a deed acknowledgment shall comply with the requirements of the Solid Waste Management Act or the Hazardous Sites Cleanup Act, as referenced in Act 2. These statutes require a property description section in the deed concerning the hazardous substance disposal on the site. The location of disposed hazardous substances and a description of the type of hazardous substances disposed on the site shall be included in the deed acknowledgment. A deed acknowledgment is required at the time of conveyance of the property.

Date of Government Version: 04/23/2010 Date Data Arrived at EDR: 04/28/2010 Date Made Active in Reports: 04/30/2010 Number of Days to Update: 2

Source: Department of Environmental Protection Telephone: 717-783-9470 Last EDR Contact: 07/22/2011 Next Scheduled EDR Contact: 11/07/2011 Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Malerials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT,

Date of Government Version: 09/21/2017 Date Data Arrived at EDR: 09/21/2017 Date Made Active in Reports: 10/13/2017 Source: U.S. Department of Transportation Telephone: 202-366-4555 Last EDR Contact: 12/28/2017

Number of Days to Update: 22

Next Scheduled EDR Contact: 04/09/2018 Data Release Frequency: Quarterly

SPILLS: State spills

A listing of hazardous material incidents.

Date of Government Version: 10/20/2017 Date Data Arrived at EDR: 11/01/2017 Date Made Active in Reports: 12/14/2017

Number of Days to Update: 43

Source: DEP, Emergency Response Telephone: 717-787-5715 Last EDR Contact: 10/05/2017

Next Scheduled EDR Contact: 01/22/2018 Data Release Frequency: Semi-Annually

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Acl (RCRA). Non-Generators do not presently generate hazardous

Date of Government Version: 09/13/2017 Date Data Arrived at EDR: 09/26/2017 Date Made Active in Reports: 10/06/2017 Number of Days to Update: 10

Source: Environmental Protection Agency

Telephone: 800-438-2474 Last EDR Contact: 12/26/2017

Next Scheduled EDR Contact: 04/09/2018 Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015 Date Data Arrived at EDR: 07/08/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 97

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 11/22/2017

Next Scheduled EDR Contact: 03/05/2018 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS Telephone: 888-275-8747 Last EDR Contact: 10/13/2017

Next Scheduled EDR Contact: 01/22/2018 Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 10/11/2017 Next Scheduled EDR Contact: 01/22/2018 Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017 Date Data Arrived at EDR: 02/03/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 11/17/2017

Next Scheduled EDR Contact: 02/26/2018 Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 10/17/2017 Date Data Arrived at EDR: 11/01/2017 Date Made Active in Reports: 12/08/2017

Number of Days to Update: 37

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 12/26/2017

Next Scheduled EDR Contact: 04/09/2018 Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014 Number of Days to Update: 88

Source: Environmental Protection Agency Telephone: 617-520-3000 Last EDR Contact: 11/06/2017 Next Scheduled EDR Contact: 02/19/2018 Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply fallure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013 Date Dala Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/09/2015

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 11/09/2017

Next Scheduled EDR Contact: 02/19/2018 Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act, TSCA Identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 01/15/2015 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 14

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 12/22/2017

Next Scheduled EDR Contact: 04/02/2018 Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS Identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 11/24/2015 Date Made Active in Reports: 04/05/2016

Number of Days to Update: 133

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 11/20/2017

Next Scheduled EDR Contact: 03/05/2018 Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 10/27/2017

Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision, ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/27/2017 Date Data Arrived at EDR: 10/12/2017 Date Made Active in Reports: 10/20/2017

Number of Days to Update: 8

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 12/22/2017

Next Scheduled EDR Contact: 03/19/2018 Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g. the fire department) should an accident occur.

Date of Government Version: 11/02/2017 Date Data Arrived at EDR: 11/17/2017 Date Made Active in Reports: 12/08/2017

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 10/23/2017

Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA, For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 10/17/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 3

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 12/22/2017

Next Scheduled EDR Contact: 02/19/2018 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017 Date Data Arrived at EDR: 06/09/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 126

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 10/13/2017

Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 10/11/2017

Next Scheduled EDR Contact: 01/22/2018 Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016 Date Data Arrived at EDR: 09/08/2016 Date Made Active in Reports: 10/21/2016

Number of Days to Update: 43

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 10/16/2017

Next Scheduled EDR Contact: 11/20/2017 Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 12/05/2017

Next Scheduled EDR Contact: 03/19/2018 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact; 12/08/2017

Next Scheduled EDR Contact; 03/19/2018 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017 Date Data Arrived at EDR: 11/30/2017 Date Made Active in Reports: 12/15/2017

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 10/26/2017

Next Scheduled EDR Contact: 02/05/2018 Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2017 Date Data Arrived at EDR: 10/05/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 8

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 10/05/2017

Next Scheduled EDR Contact: 01/15/2018 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40

Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2008 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012 Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety Telephone: 202-366-4595 Last EDR Contact: 10/31/2017 Next Scheduled EDR Contact: 02/12/2018 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2017 Date Data Arrived at EDR: 08/03/2017 Date Made Active in Reports: 10/20/2017

Number of Days to Update: 78

Source: Department of Justice, Consent Decree Library Telephone: Varies

Last EDR Contact: 12/18/2017

Next Scheduled EDR Contact: 04/02/2018 Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups; Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015 Date Data Arrived at EDR: 02/22/2017 Date Made Active in Reports: 09/28/2017 Number of Days to Update: 218

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 11/20/2017

Next Scheduled EDR Contact: 03/05/2018 Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 07/14/2015 Date Made Active in Reports: 01/10/2017

Number of Days to Update: 546

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 10/11/2017

Next Scheduled EDR Contact: 01/22/2018 Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016 Date Data Arrived at EDR: 12/27/2016 Date Made Active in Reports: 02/17/2017

Number of Days to Update: 52

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 11/02/2017

Next Scheduled EDR Contact: 02/19/2018 Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tallings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017 Date Data Arrived at EDR: 10/11/2017 Date Made Active in Reports: 11/03/2017

Number of Days to Update: 23

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 11/22/2017

Next Scheduled EDR Contact: 03/05/2018 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smeller site locations.

Date of Government Version: 10/10/2017 Date Data Arrived at EDR: 11/03/2017 Date Made Active in Reports: 12/15/2017

Number of Days to Update: 42

Source: Environmental Protection Agency Telephone: 703-603-8787 Last EDR Contact: 12/22/2017

Next Scheduled EDR Contact: 04/16/2018 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Dala Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants,

Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

> Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017 Number of Days to Update: 100

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 07/31/2017 Date Data Arrived at EDR: 08/30/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 11/28/2017

Next Scheduled EDR Contact: 03/12/2018 Data Release Frequency: Semi-Annually

US MINES 2; Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008

Number of Days to Update: 49

Source: USGS Telephone: 703-648-7709 Last EDR Contact: 12/01/2017

Next Scheduled EDR Contact: 03/12/2018 Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 97

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 12/01/2017

Next Scheduled EDR Contact: 03/12/2018 Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to Implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/25/2017 Date Data Arrived at EDR: 09/26/2017 Date Made Active in Reports: 10/20/2017

Number of Days to Update: 24

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 12/19/2017 Next Scheduled EDR Contact: 03/26/2018 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/23/2017 Date Data Arrived at EDR: 09/06/2017 Date Made Active in Reports: 09/15/2017

Number of Days to Update: 9

Source: EPA

Telephone: (215) 814-5000 Last EDR Contact: 12/05/2017

Next Scheduled EDR Contact: 03/19/2018 Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2016 Date Data Arrived at EDR: 06/02/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 133

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 10/16/2017

Next Scheduled EDR Contact: 01/29/2018 Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 02/13/2017 Date Data Arrived at EDR: 02/15/2017 Date Made Active in Reports: 11/03/2017

Number of Days to Update: 261

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 11/21/2017

Next Scheduled EDR Contact: 03/12/2018 Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2017 Date Data Arrived at EDR: 09/06/2017 Date Made Active in Reports: 10/20/2017

Number of Days to Update: 44

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 12/05/2017

Next Scheduled EDR Contact: 03/19/2018 Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs, All companies now are required to submit new and updated registrations.

Date of Government Version: 08/17/2017 Date Data Arrived at EDR: 08/17/2017 Date Made Active in Reports: 09/15/2017

Number of Days to Update: 29

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 11/20/2017

Next Scheduled EDR Contact: 03/05/2018 Data Release Frequency: Quarterly

AIRS: Permit and Emissions Inventory Data Permit and emissions inventory data.

> Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 07/14/2017 Date Made Active in Reports: 09/25/2017

Number of Days to Update: 73

Source: Department of Environmental Protection

Telephone: 717-787-9702 Last EDR Contact: 09/25/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

DRYCLEANERS: Drycleaner Facility Locations
A listing of drycleaner facility locations.

Date of Government Version: 09/19/2017 Date Data Arrived at EDR: 09/21/2017 Date Made Active in Reports: 10/31/2017 Number of Days to Update: 40 Source: Department of Environmental Protection

Telephone: 717-787-9702 Last EDR Contact: 12/18/2017

Next Scheduled EDR Contact: 04/02/2018 Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 07/25/2017 Date Made Active in Reports: 09/25/2017 Number of Days to Update: 62 Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 10/16/2017

Next Scheduled EDR Contact; 01/29/2018 Data Release Frequency; Annually

MINES: Abandoned Mine Land Inventory

This data set portrays the approximate location of Abandoned Mine Land Problem Areas containing public health, safety, and public welfare problems created by past coal mining.

Date of Government Version: 10/03/2017 Date Data Arrived at EDR: 10/25/2017 Date Made Active in Reports: 11/14/2017 Number of Days to Update: 20 Source: PASDA Telephone: 814-863-0104 Last EDR Contact: 10/25/2017

Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Semi-Annually

NPDES: NPDES Permit Listing

A listing of facilities with an NPDES permit.

Date of Government Version: 09/19/2017 Date Data Arrived at EDR: 09/21/2017 Date Made Active in Reports; 10/09/2017 Number of Days to Update: 18 Source: Department of Environmental Protection

Telephone: 717-787-9642 Last EDR Contact: 12/08/2017

Next Scheduled EDR Contact: 03/19/2018 Data Release Frequency: Varies

UIC: Underground Injection Wells

A listing of underground injection well locations.

Date of Government Version: 09/19/2017 Date Data Arrived at EDR: 09/20/2017 Date Made Active in Reports: 10/09/2017 Number of Days to Update: 19 Source: Department of Environmental Protection

Telephone: 717-783-7209 Last EDR Contact: 12/20/2017

Next Scheduled EDR Contact: 04/02/2018 Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update; N/A Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Con

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR, EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department Environmental Protection in Pennsylvania.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/201

Source: Department Environmental Protection Telephone: N/A

Date Made Active in Reports: 12/30/2013 Number of Days to Update: 182 Last EDR Contact; 06/01/2012 Next Scheduled EDR Contact; N/A Data Release Frequency; Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department Environmental Protection in Pennsylvania.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department Environmental Protection Telephone: N/A Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department Environmental Protection in Pennsylvania.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 12/30/2013

Number of Days to Update: 182

Source: Department Environmental Protection

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data, Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/11/2017 Date Data Arrived at EDR: 11/14/2017 Date Made Active in Reports: 12/18/2017

Number of Days to Update: 34

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 11/14/2017

Next Scheduled EDR Contact: 02/26/2018 Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information Hazardous waste manifest information.

> Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 04/11/2017 Date Made Active in Reports: 07/27/2017

Number of Days to Update: 107

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 10/05/2017

Next Scheduled EDR Contact: 01/22/2018 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/01/2017 Date Data Arrived at EDR: 11/01/2017 Date Made Active in Reports: 11/13/2017

Number of Days to Update: 12

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 11/01/2017

Next Scheduled EDR Conlact: 02/12/2018 Data Release Frequency: Quarterly

RI MANIFEST: Manifest information

Hazardous waste manifest Information

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 06/19/2015 Date Made Active in Reports: 07/15/2015

Number of Days to Update: 26

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 11/16/2017

Next Scheduled EDR Contact: 03/05/2018 Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data Hazardous waste manifest information.

Date of Government Version: 08/29/2017 Date Data Arrived at EDR: 09/08/2017 Date Made Active in Reports: 11/10/2017

Number of Days to Update: 63

Source: Department of Environmental Conservation

Telephone: 802-241-3443 Last EDR Contact: 10/16/2017

Next Scheduled EDR Contact: 01/29/2018 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 04/13/2017 Date Made Active in Reports: 07/14/2017 Number of Days to Update: 92

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 12/11/2017

Next Scheduled EDR Contact; 03/26/2018 Data Release Frequency: Annually

Oll/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

This map includes information copyrighted by PennWell Corporation, This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List Source: Department of Public Welfare

Telephone: 717-783-3856

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR In 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Source: Pennsylvania Spatial Data Access Telephone: 610-344-6105

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

WOODLAND FOOD & FUEL 2829 WOODLAND BIGLER HIGHWAY WOODLAND, PA 16881

TARGET PROPERTY COORDINATES

Latitude (North): 40.999549 - 40' 59' 58.38" Longitude (West): 78.346508 - 78" 20' 47.43"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 723181.5 UTM Y (Meters): 4541887.0

Elevation: 1614 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 5949120 WALLACETON, PA

Version Date: 2013

North Map: 5948746 LECONTES MILLS, PA

Version Date: 2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

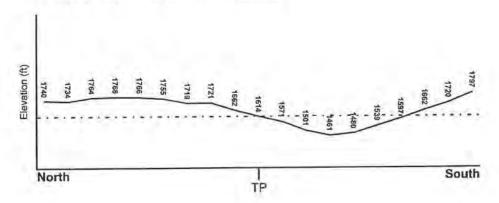
TOPOGRAPHIC INFORMATION

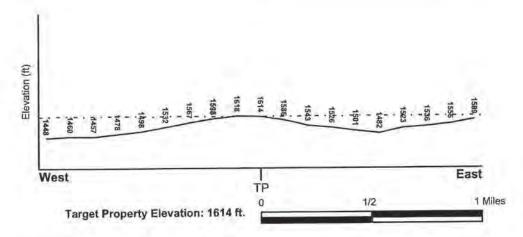
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property FEMA Source Type

42033C0505D FEMA FIRM Flood data

Additional Panels in search area: FEMA Source Type

42033C0340D FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property Data Coverage

WALLACETON YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

| LOCATION | GENERAL DIRECTION | MAP ID | FROM TP | GROUNDWATER FLOW | Not Reported |

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era:

Paleozoic

Category: Stratifed Sequence

System: Series:

Pennsylvanian

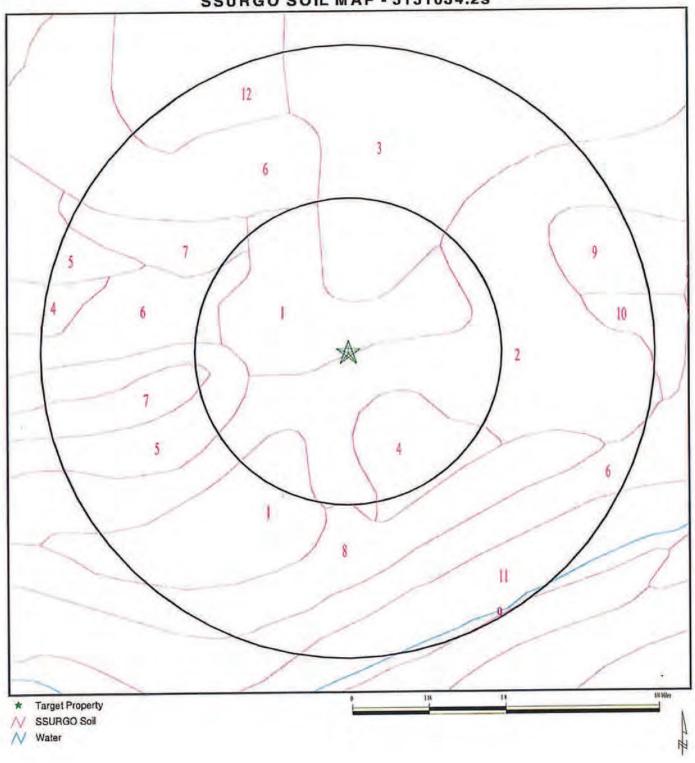
Des Moinesian Series

Code:

PP2 (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5151034.2s



SITE NAME: Woodland Food & Fuel 2829 Woodland Bigler Highway Woodland PA 16881 40.999549 / 78.346508

CLIENT: Mountain Research, Inc.
CONTACT: Matt Ference
INQUIRY#: 5151034.2s
DATE: January 04, 2018 5:10 pm

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DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name:

Wharton

Soil Surface Texture:

channery silt loam

Hydrologic Group:

Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:

Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min:

> 0 inches

Depth to Watertable Min:

> 69 inches

			Soil Layer	Information			
	Bou	indary	Soil Texture Class	Classi	fication	Saturated hydraulic	
Layer	Upper	Lower		AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	11 inches	channery silt loam	Silt-Clay Materials (more than 35 pct, passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4
2	11 inches	50 inches	channery silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4.23 Min: 0.42	Max: 5.5 Min: 4
3	50 inches	68 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4.23 Min: 0.42	Max: 5,5 Min: 4
4	68 inches	72 inches	weathered bedrock	Not reported	Not reported	Max: 14.11 Min: 0,42	Max: Min:

Soil Map ID: 2

Soil Component Name:

Wharton

Soil Surface Texture:

silt loam

Hydrologic Group:

Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:

Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min:

> 0 inches

Depth to Watertable Min:

> 69 inches

			Soil Layer	Information			
Layer	Bou	indary	Soil Texture Class	Classi	fication	Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soll		
1	0 inches	11 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Solls.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4
2	68 inches	72 inches	weathered bedrock	Not reported	Not reported	Max: 14.11 Min: 0.42	Max: Min;
3	11 inches	50 inches	channery silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4.23 Min: 0.42	Max: 5.5 Min: 4
4	50 inches	68 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4.23 Min: 0.42	Max: 5.5 Min: 4

Soil Map ID: 3

Soil Component Name:

Cedarcreek

Soil Surface Texture:

extremely channery loam

Hydrologic Group:

Class B/D - Drained/undrained hydrology class of soils that can be

drained and are classified.

Soil Drainage Class:

Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min:

> 230 inches

Depth to Watertable Min:

> 61 inches

			Soil Layer	Information			
	Boundary			Classi	Classification		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	24 inches	extremely channery loam	Not reported	Not reported	Max: 42.34 Min: 14.11	Max: 5.5 Min: 3.6
2	24 inches	70 inches	extremely channery silty clay loam	Not reported	Not reported	Max: 141_14 Min: 0.42	Max: 5.5 Min: 3.6

Soil Map ID: 4

Soil Component Name:

Cavode

Soil Surface Texture:

silt loam

Hydrologic Group:

Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:

Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min:

> 0 inches

Depth to Watertable Min:

> 8 inches

			Soil Layer	Information			
	Boundary			Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max; 5.5 Min: 4.5

			Soil Layer	Information			
	Bou	indary	Soil Texture Class	Classi	fication	Saturated hydraulic	Soil Reaction (pH)
Layer	Upper	Lower		AASHTO Group	Unified Soil	conductivity micro m/sec	
2	7 inches	42 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max; 1,41 Min: 0,42	Max: 5.5 Min: 4.5
3	42 inches	62 inches	very channery silty clay loam	Silt-Clay Materials (more than 35 pct. passing No, 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 1.41 Min: 0.42	Max; 5.5 Min: 4.5
4	62 inches	66 inches	unweathered bedrock	Not reported	Not reported	Max: 14.11 Min: 0.42	Max: Min:

Soil Map ID: 5

Soil Component Name:

Gilpin

Soil Surface Texture:

channery silt loam

Hydrologic Group:

Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:

Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min:

> 0 inches

Depth to Watertable Min:

			Soil Layer	Information			
	Boundary			Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	9 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14,11 Min: 4.23	Max: 5.5 Min: 3.6

			Soil Layer	Information			
	Bou	indary	Soil Texture Class	Classi	fication	Saturated hydraulic	
Layer	Upper	Lower		AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
2	9 inches	25 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Solls.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
3	25 inches	31 inches	very channery loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14.11 Min: 4.23	Max: 5,5 Min: 3.6
4	31 inches	35 Inches	unweathered bedrock	Not reported	Not reported	Max: 14.11 Min: 1.41	Max: Min:

Soil Map ID: 6

Soil Component Name:

Rayne

Soil Surface Texture:

silt loam

Hydrologic Group:

Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class:

Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min:

> 0 inches

Depth to Watertable Min:

			Soil Layer	Information			
Layer	Boundary			Classification		Saturated hydraulic	
	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5

			Soil Layer	Information			
	Bou	indary	Soil Texture Class	Classi	fication	Saturated hydraulic	
Layer	Upper	Lower		AASHTO Group	Unified Soil	conductivity micro m/sec	Con itomostori
2	9 inches	37 Inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5
3	37 inches	59 inches	very channery silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5
4	59 Inches	63 inches	unweathered bedrock	Not reported	Not reported	Max: 14.11 Min: 0.42	Max: Min:

Soil Map ID: 7

Soil Component Name:

Gilpin

Soil Surface Texture:

channery silt loam

Hydrologic Group:

Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:

Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min:

> 0 inches

Depth to Watertable Min:

			Soil Layer	Information			
	Boundary			Classi	Classification		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	hydraulic conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	9 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Solls.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 5,5 Min: 3,6

			Soil Layer	Information			
	Bou	indary	Soil Texture Class	Classi	fication	Saturated hydraulic	
Layer	Upper	Lower		AASHTO Group	Unified Soil	conductivity micro m/sec	CONTRACTOR
2	9 inches	25 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
3	25 inches	31 inches	very channery loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
4	31 inches	35 inches	unweathered bedrock	Not reported	Not reported	Max: 14.11 Min: 1,41	Max: Min:

Soil Map ID: 8

Soil Component Name:

Rayne

Soil Surface Texture:

channery silt loam

Hydrologic Group:

Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class:

Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min:

> 0 inches

Depth to Watertable Min:

			Soil Layer	Information			
Layer	Boundary			Classi	fication	Saturated hydraulic	
	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	9 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4,5

			Soil Layer	Information			
Layer	Boundary			Classification		Saturated hydraulic	
	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
2	9 inches	37 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 14.11 Min: 4,23	Max: 5.5 Min: 4.5
3	37 inches	59 inches	very channery silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5
4	59 inches	63 inches	unweathered bedrock	Not reported	Not reported	Max: 14.11 Min: 0.42	Max: Min:

Soil Map ID: 9

Soil Component Name:

Ernest

Soil Surface Texture:

silt loam

Hydrologic Group:

Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:

Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min:

> 0 inches

Depth to Watertable Min:

> 53 inches

			Soil Layer	Information			
Layer	Boundary			Classification		Saturated hydraulic	
	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 Inches	3 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5

Soil Layer Information								
Layer	Boundary			Classification		Saturated hydraulic		
	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)	
2	3 inches	24 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14,11 Min: 4.23	Max: 5.5 Min: 4.5	
3	24 inches	46 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 5.5 Min: 4.5	
4	46 Inches	59 inches	channery silt loam	Silt-Clay Materials (more than 35 pct, passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 5.5 Min: 4.5	

Soil Map ID: 10

Soil Component Name:

Ernest

Soil Surface Texture:

silt loam

Hydrologic Group:

Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:

Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min:

> 0 inches

Depth to Watertable Min:

> 53 inches

			Soil Layer	Information			
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	3 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Solls.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14,11 Min: 4.23	Max: 6 Min: 4,5
2	3 inches	24 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5
3	24 inches	46 inches	silt loam	Silt-Clay Materials (more than 35 pct, passing No, 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 5.5 Min: 4.5
4	46 inches	59 Inches	channery sill loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 5,5 Min: 4,5

Soil Map ID: 11

Soil Component Name:

Philo

Soil Surface Texture:

silt loam

Hydrologic Group:

Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class:

Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min:

> 102 inches

Depth to Watertable Min:

> 69 inches

Soil Layer Information								
Layer	Boundary			Classification		Saturated hydraulic		
	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)	
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct, passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5	
2	9 inches	42 inches	silt loam	Silt-Clay Materials (more than 35 pct, passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5	
3	42 inches	61 inches	stratified gravelly sand to slit loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.34 Min: 14.11	Max: 6 Min: 4.5	

Soil Map ID: 12

Soil Component Name:

Bethesda

Soil Surface Texture:

very channery silt loam

Hydrologic Group:

Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:

Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min:

> 0 inches

Depth to Watertable Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

			Soil Layer	Information			
Layer	Boundary			Classification		Saturated hydraulic	
	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	CONT PROGOTION
1	0 inches	7 inches	very channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
2	7 inches	64 inches	extremely channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 4.23 Min: 1.41	Max: 5.5 Min: 3.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE

SEARCH DISTANCE (miles)

Federal USGS

1,000

Federal FRDS PWS

Nearest PWS within 1 mile

State Database

1.000

FEDERAL USGS WELL INFORMATION

MAP ID

WELL ID

LOCATION FROM TP

No Wells Found

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID

WELL ID

LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID

WELL ID

FROM TP

No PWS System Found

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID WELL ID

1 PASI50000390804
A2 PASI50000401451
A3 PASI50000401452

LOCATION FROM TP

1/2 - 1 Mile North 1/2 - 1 Mile ENE 1/2 - 1 Mile ENE

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID

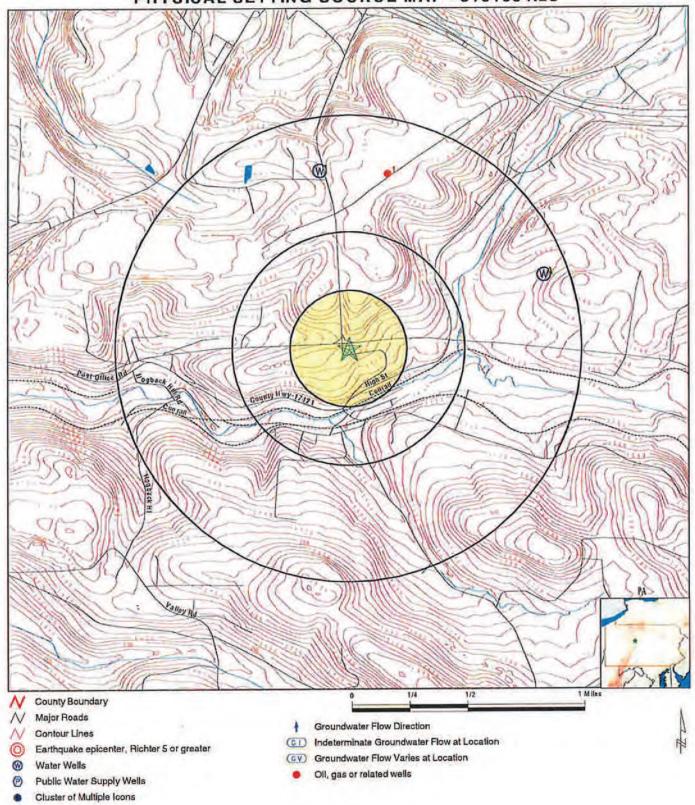
WELL ID

LOCATION FROM TP

PAOG60000077588

1/2 - 1 Mile NNE

PHYSICAL SETTING SOURCE MAP - 5151034.2s



SITE NAME: Woodland Food & Fuel ADDRESS: 2829 Woodland Bigler Highway Woodland PA 16881

LAT/LONG: 40.999549 / 78.346508 ADDRESS:

CLIENT: Mountain Research, Inc.
CONTACT: Matt Ference
INQUIRY#: 5151034.2s
DATE: January 04, 2018 5:10 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Distance Elevation			Database	EDR ID Number
1 North 1/2 - 1 Mile Higher			PA WELLS	PASI50000390804
Objectid:	390804	Depcounter:	-1	
Siteid:	Not Reported	Transactioncount:	0	
Localwellnumber:	Not Reported	Countycode:	033	
Latitude:	Not Reported	Longitude:	Not Reported	
Aapgcode:	Not Reported	Topographycode:	Not Reported	
Welldepth:	110	Elevation:	0	
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported	
Hydrologicunit:	Not Reported	Lationgaccuracyc:	Not Reported	
Quadcode:	0	Typeofsitecode:	W	
Datecreated:	19-APR-10	Dateupdated:	Not Reported	
Datareliabilityc:	Not Reported	Sourcedepthdatac:	Not Reported	
Municipalitycode:	17909	Course opinionis.	(10.110)	
Latitudedd:	41.01056			
Longitudedd:	-78.34889			
Weiladdress:	Not Reported			
Wellzipcode:	Not Reported	Depthtobedrock	4	
Bedrocknotreache:	0	Sallwaterzone:	0	
Datedrilled:	15-APR-10	Pagwis id:	0	
Sourcesitedataco:	3	Localpermit:	Not Reported	
Latestowner:	7460708	Driller scoordme:	3	
Latestproduction:	4485540	Latestwelluse:	7177723	
Site id:	PASI50000390804	GeneralCounter:	484062	
Site id.	TAGOOOGGOOG	Control		
A2 ENE I/2 - 1 Mile Lower			PA WELLS	PASI50000401451
		Z	4	
Objectid:	401451	Depcounter:	-1	
Siteid:	Not Reported	Transactioncount:	0	
Localwellnumber:	Not Reported	Countycode:	033	
Latitude:	Not Reported	Longitude:	Not Reported	
Aapgcode:	Not Reported	Topographycode:	Not Reported	
Welldepth:	150	Elevation:	0	
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported	
Hydrologicunit:	Not Reported	Latlongaccuracyc:	Not Reported	
Quadcode:	0	Typeofsitecode:	W	
Datecreated:	28-AUG-09	Dateupdated:	Not Reported	
Datarellabilityc:	Not Reported	Sourcedepthdatac:	Not Reported	
Municipalitycode:	17943			
Latitudedd:	41.00426			
Longitudedd:	-78.33072			
Welladdress:	Not Reported	- 100 m	-2	
Wellzipcode;	Not Reported	Depthtobedrock:	0	
Bedrocknotreache:	0	Saltwaterzone:	0	
Datedrilled:	27-AUG-09	Pagwis id:	0	
		Localpermit:	Not Reported	
Sourcesitedataco: Latestowner:	3 7447537	Driller scoordme:	1	

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Latestproduction: Site id: 4480084 PASI50000401451 Latestwelluse: GeneralCounter: 7336209 494709

-1

0

033

A3 ENE 1/2 - 1 Mile Lower

PA WELLS

PASI50000401452

401452 Objectid: Siteld: Not Reported Not Reported Localwellnumber: Latitude: Not Reported Not Reported Aapgcode: Welldepth: 150 Not Reported Elevmethodcode: Not Reported Hydrologicunit: Quadcode: 28-AUG-09 Datecreated: Not Reported 17943 41.00394

Depcounter:
Transactioncount:
Countycode:
Longitude:
Topographycode:
Elevation:
Accuracyofelevat:
Latlongaccuracyo:
Typeofsitecode:
Dateupdated:
Sourcedepthdatac:

Not Reported Not Reported 0 Not Reported Not Reported W Not Reported Not Reported

Datareliabilityo: Municipalitycode: Latitudedd: Longitudedd: -78.33028 Welladdress: Not Reported Wellzipcode: Not Reported Bedrocknotreache: Datedrilled: 27-AUG-09 Sourcesitedataco: 3 7453496 Latestowner: 4491372 Latestproduction: PASI50000401452 Site id:

Depthtobedrock: 0
Saltwaterzone: 0
Pagwis id: 0
Localpermit: Not Reported
Driller scoordme: 1
Latestwelluse: 9848804
GeneralCounter: 494710

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance			Database	EDR ID Number
1 NNE 1/2 - 1 Mile			OIL_GAS	PAOG60000077588
Organizati: Client nam: Site name: Primary fa: Client id: Pasite id: Primary 1; Sub facili: Sub faci 1; Primary 2: Primary 2: Primary 3: Other faci: Sub faci 2: Sother id: Client rel: Site statu: Primary 4:	NORTHEAST NATURAL ENERG NORTHEAST NATURAL ENERG WOOLRIDGE 1 OG WELL WOOLRIDGE COAL CO 1 280163 671936 680245 WOOLRIDGE COAL CO 1 920721 Oil & Gas Location NonCoal 033-26095 Well 033-26095 Owner Active Regulatory Inactive Status			
Sub faci 3: Compliance:	523 YES	Site id:	PAOG6000007758	8

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: PA Radon

Radon Test Results

Zipcode	Num Tests	Min pCi/L	Max pCi/L	Avg pCi/L
-	-			_
16881	25	0.7	27.5	6.3

EPA Region 3 Statistical Summary Readings for Zip Code: 16881

Number of sites tested: 10.

Maximum Radon Level: 35.9 pCi/L. Minimum Radon Level: 0.7 pCi/L.

pCi/L	pCi/L	pCi/L	pCi/L	pCl/L	pCi/L
<4	4-10	10-20	20-50	50-100	>100
7 (70.00%)	0 (0.00%)	2 (20.00%)	1 (10.00%)	0 (0.00%)	0 (0.00%)

Federal EPA Radon Zone for CLEARFIELD County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Pennsylvania Spatial Data Access

Telephone: 610-344-6105

HYDROGEOLOGIC INFORMATION

AQUIFLOWR Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawlec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States, A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database, SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after

August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater,

STATE RECORDS

Pennsylvania Public Water Supply Wells

Source: Pennsylvania Department of Environmental Resources Bureau of Water Supply

Telephone: 717-787-5017

Pennsylvania Groundwater Information System

Source: Department of Conservation and Natural Resources

Telephone: 717-702-2045

OTHER STATE DATABASE INFORMATION

Pennsylvania Oil and Gas Locations

Source: Pennsylvania Department of Environmental Protection

Telephone: 814-863-0104

An Oil and Gas Location is a DEP primary facility type related to the Oil & Gas Program. The sub-facility types related to Oil and Gas that are included in this layer are:Land Application -- An area where drilling cuttings or waste are disposed by land application; Well-- A well associated with oil and/or gas production; Pit -- An approved pit that is used for storage of oil and gas well fluids. Some sub facility types are not included in this layer due to security policies.

RADON

State Database: PA Radon

Source: Department of Environmental Protection

Telephone: 717-783-3594

Radon Test Results Statistics by Zip Code

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey, The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Region 3 Statistical Summary Readings

Source: Region 3 EPA Telephone: 215-814-2082

Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

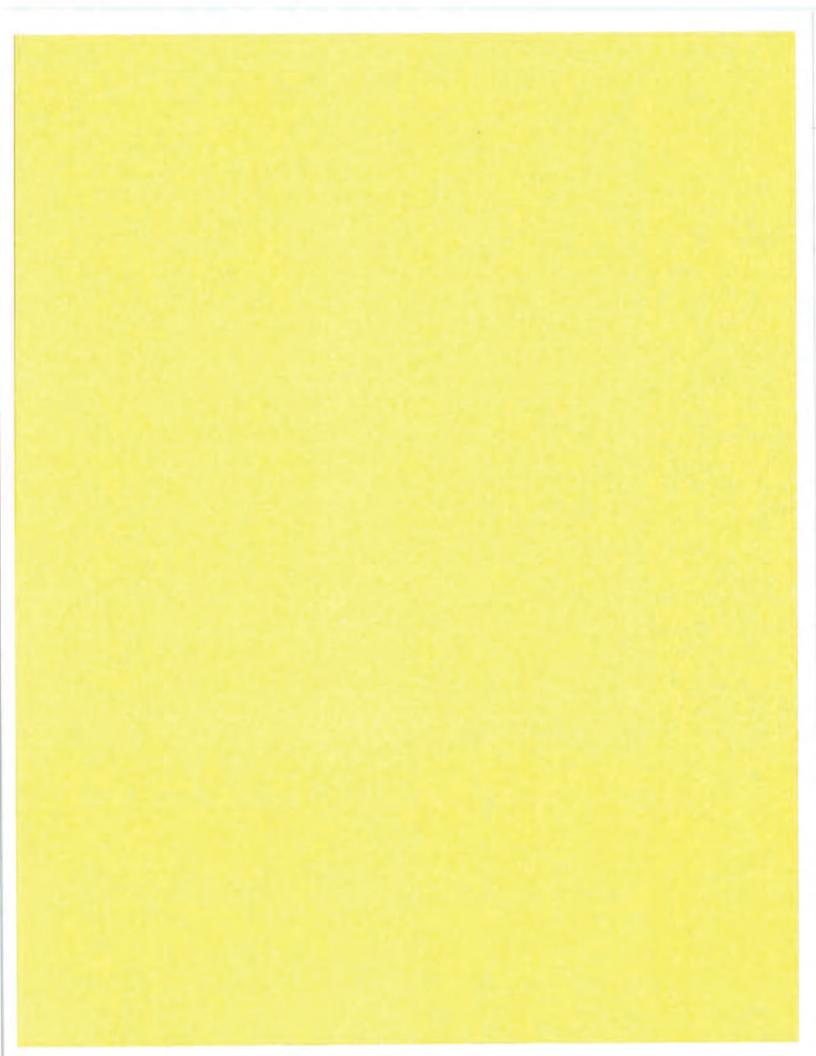
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared

in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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Woodland Food & Fuel 2829 Woodland Bigler Highway Woodland, PA 16881

Inquiry Number: 5151034.4

January 04, 2018

EDR Historical Topo Map Report

with QuadMatch™



EDR Historical Topo Map Report

01/04/18

Site Name:

Client Name:

Woodland Food & Fuel 2829 Woodland Bigler Highway Woodland, PA 16881

EDR Inquiry # 5151034.4

Mountain Research, Inc. 825 25th Street Altoona, PA 16601 Contact: Matt Ference



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Mountain Research, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Si	al	ct	ı F	201	SIII	ts:

Coordinates:

P.O.#

24591

Project:

4923.18.01.50

Latitude:

40.999549 40° 59' 58" North

Longitude:

-78.346508 -78° 20' 47" West

UTM Zone:

Zone 17 North

UTM X Meters:

723175.52

UTM Y Meters:

4542098.70

Elevation:

1612.91' above sea level

Maps Provided:

2013	1944, 1945
2000	1932
1993	1929
1986	1905
1981	1903
1969, 1971	
1959	
1946	

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This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013 Source Sheets



7.5-minute, 24000

Clearfield



7.5-minute, 24000



7.5-minute, 24000

Wallaceton



Glen Richey

7.5-minute, 24000

2000 Source Sheets



Lecontes Mills

7.5-minute, 24000 Aerial Photo Revised 2000

1993 Source Sheets



Glen Richey



Wallaceton

7.5-minute, 24000 Aerial Photo Revised 1991

7.5-minute, 24000 Aerial Photo Revised 1991

1986 Source Sheets



Lecontes Mills

7.5-minute, 24000 Aerial Photo Revised 1983 This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1981 Source Sheets



Glen Richey

7.5-minute, 24000 Aerial Photo Revised 1977



Clearfield

7.5-minute, 24000 Aerial Photo Revised 1977



Lecontes Mills



7.5-minute, 24000

Aerial Photo Revised 1977



GLENRICHEY

7.5-minute, 24000

1969, 1971 Source Sheets



Glen Richey



Wallaceton



GLENRICHEY



Clearfield

7.5-minute, 24000 Aerial Photo Revised 1969

7.5-minute, 24000 Aerial Photo Revised 1969

7.5-minute, 24000

7.5-minute, 24000 Aerial Photo Revised 1971



Lecontes Mills

7.5-minute, 24000 Aerial Photo Revised 1971

1959 Source Sheets



Clearfield

7.5-minute, 24000 Aerial Photo Revised 1958



Lecontes Mills

7.5-minute, 24000 Aerial Photo Revised 1958

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1946 Source Sheets



Wallaceton



Glen Richey

7.5-minute, 31680

7.5-minute, 31680

1944, 1945 Source Sheets



Glen Richey

7.5-minute, 24000



Wallaceton

7.5-minute, 24000

1932 Source Sheets



Clearfield

15-minute, 62500

1929 Source Sheets



Clearfield

15-minute, 48000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1905 Source Sheets



Houtzdale

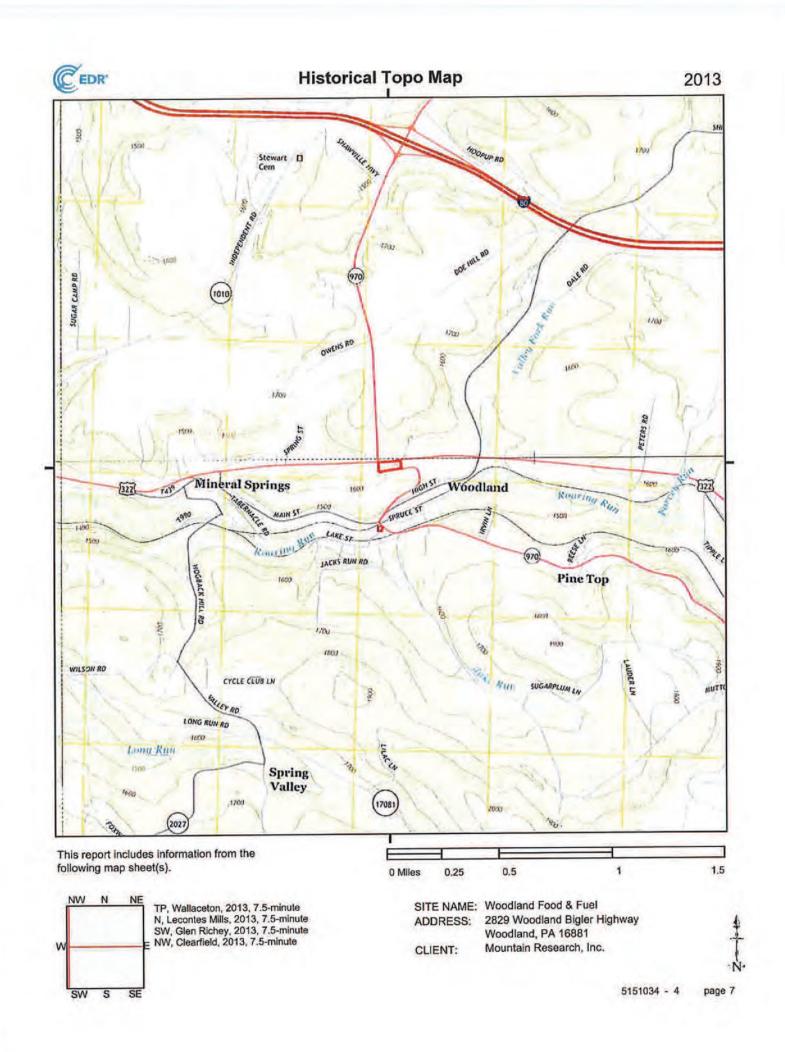
15-minute, 62500

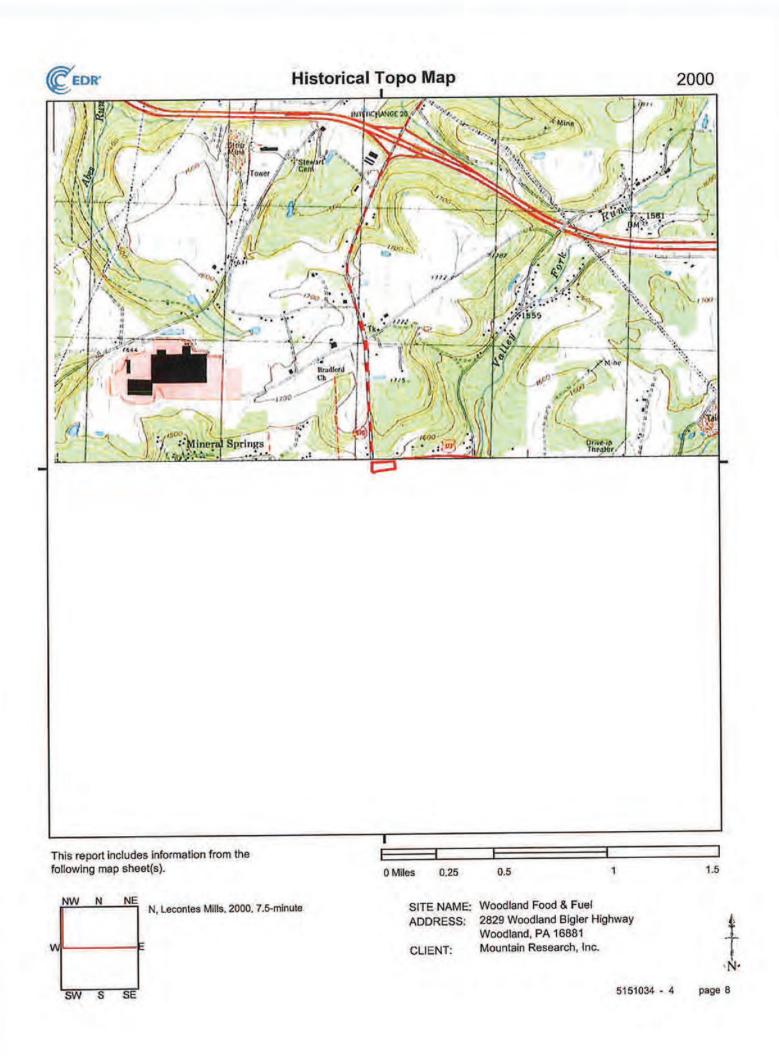
1903 Source Sheets



Houtzdale

15-minute, 62500

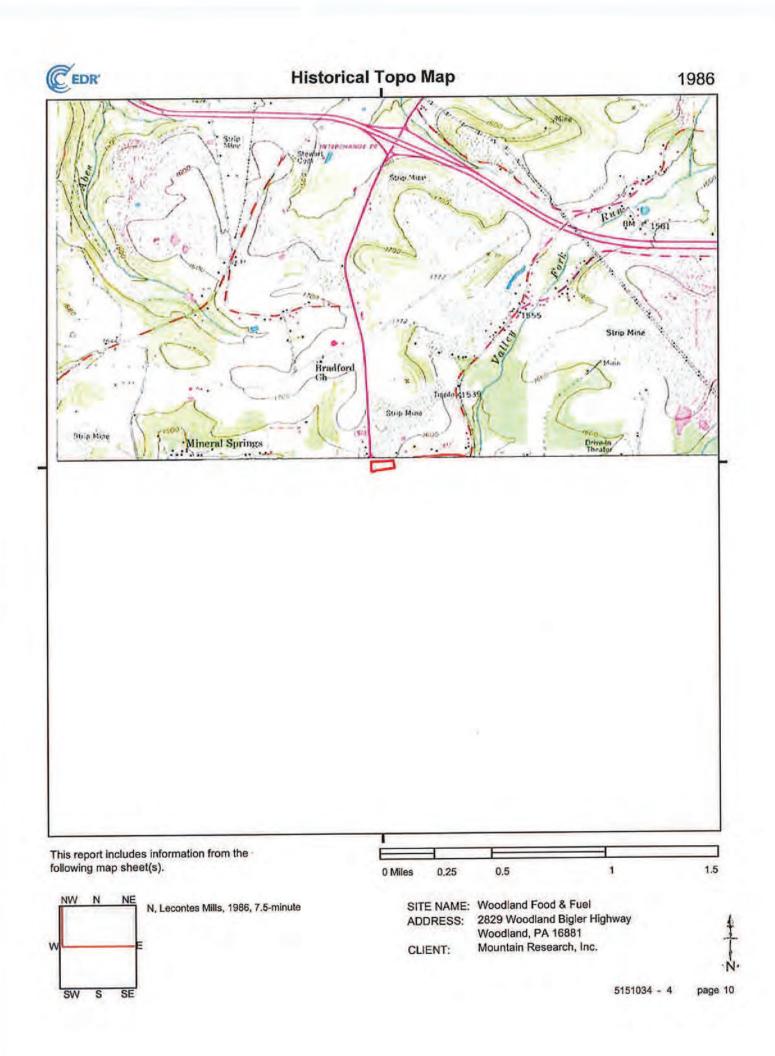


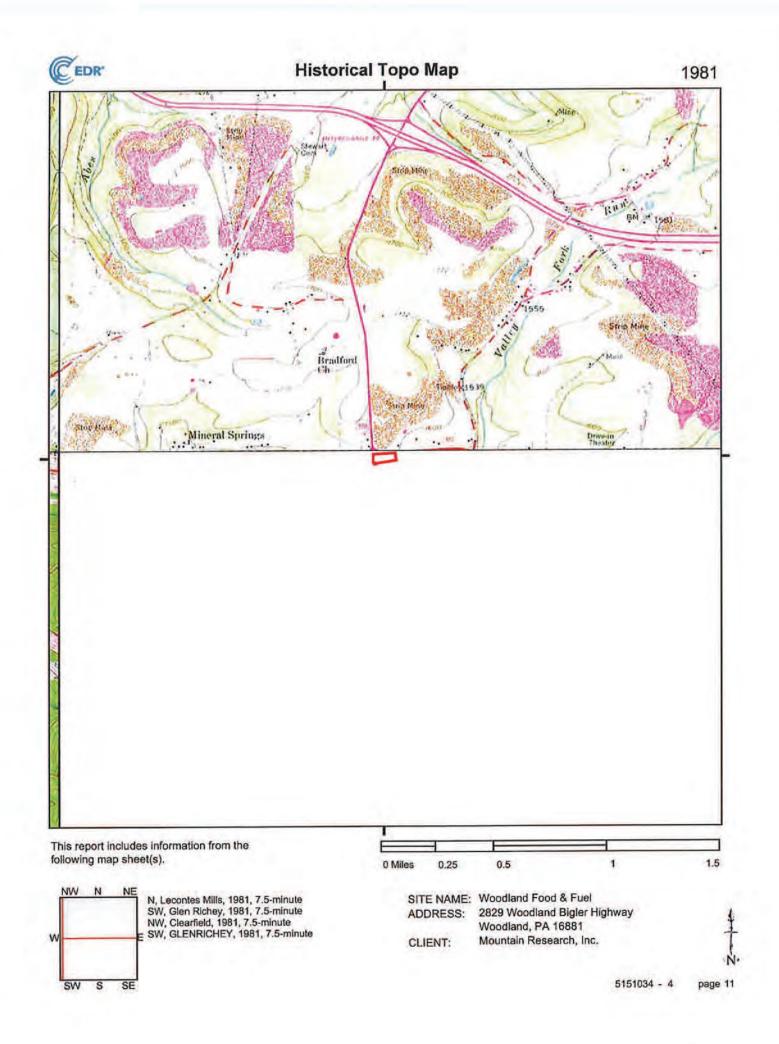


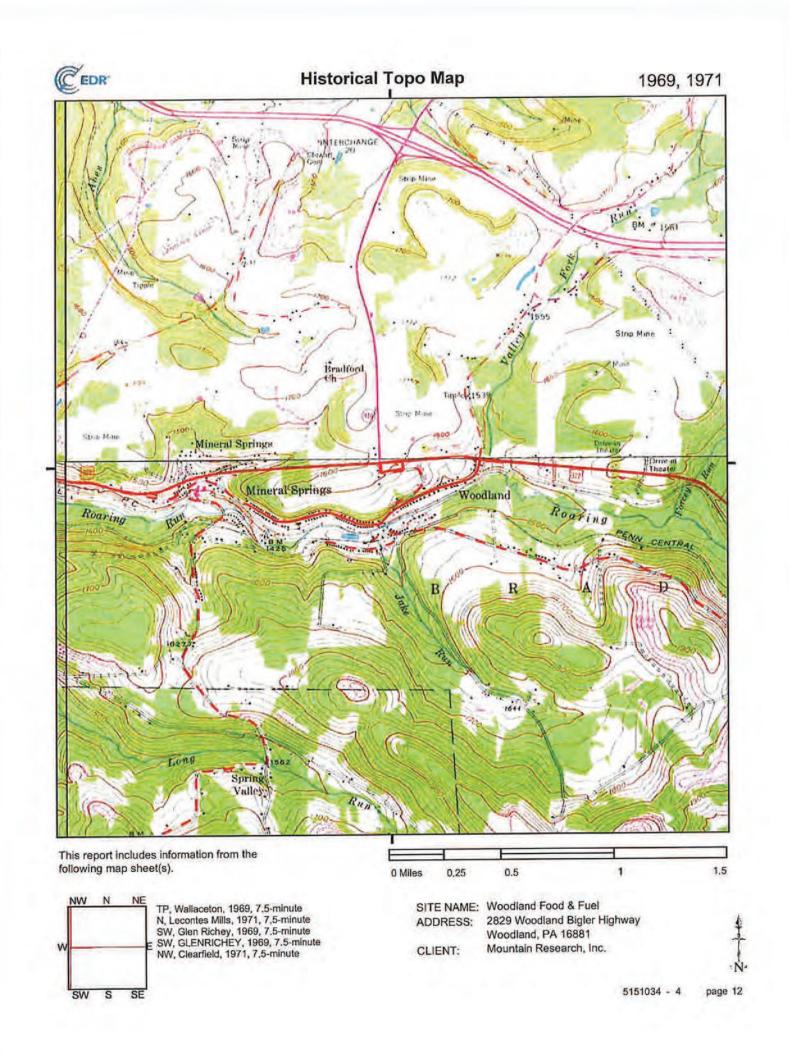
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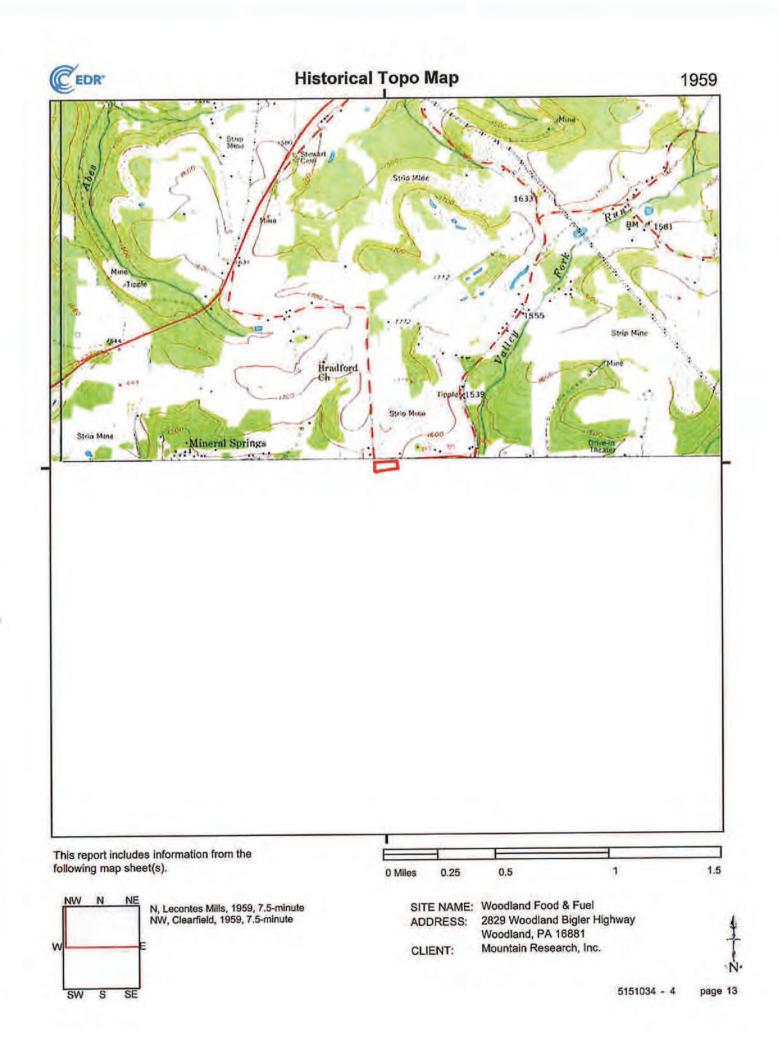
page 9

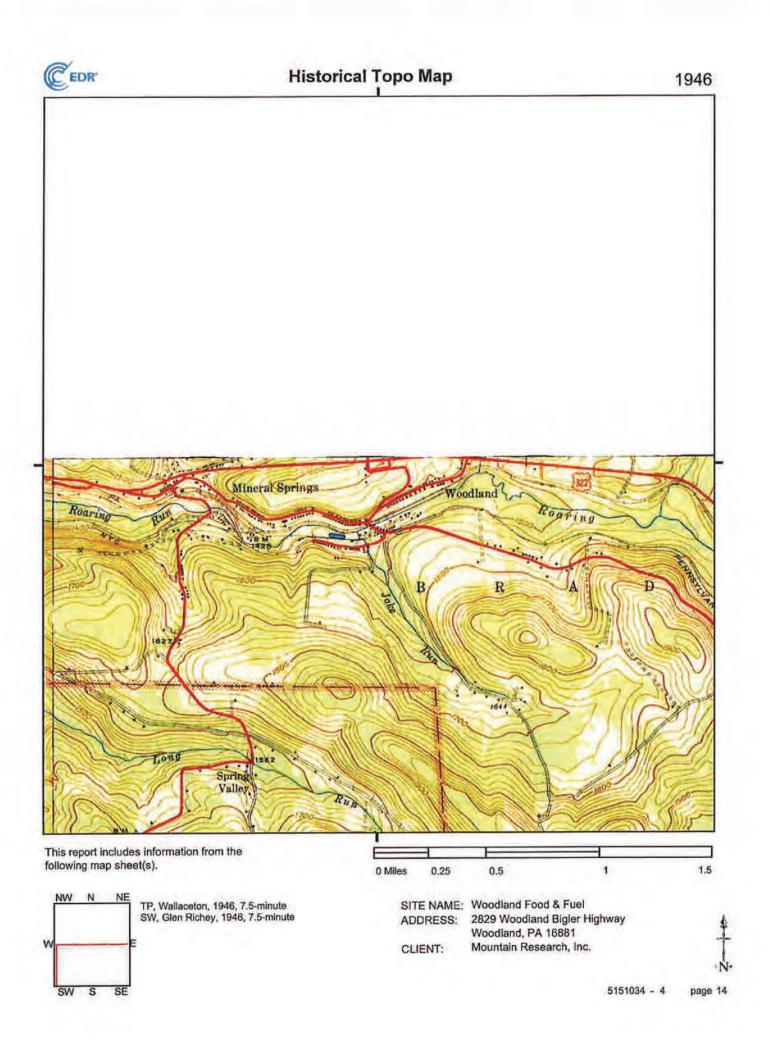
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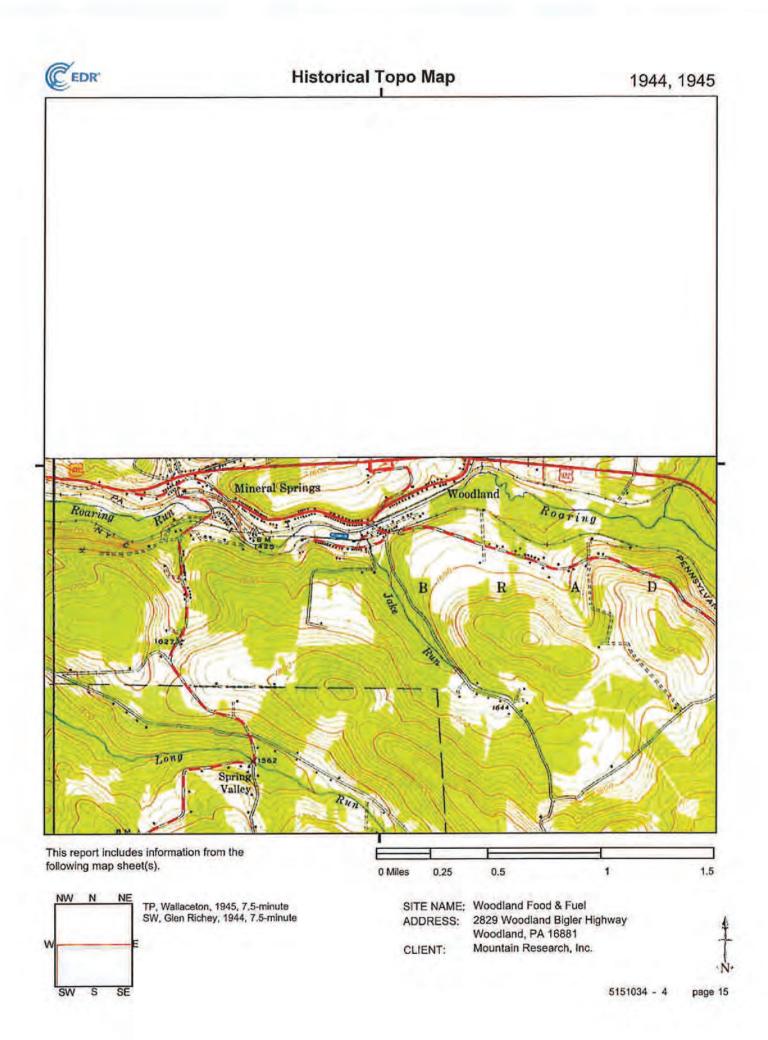


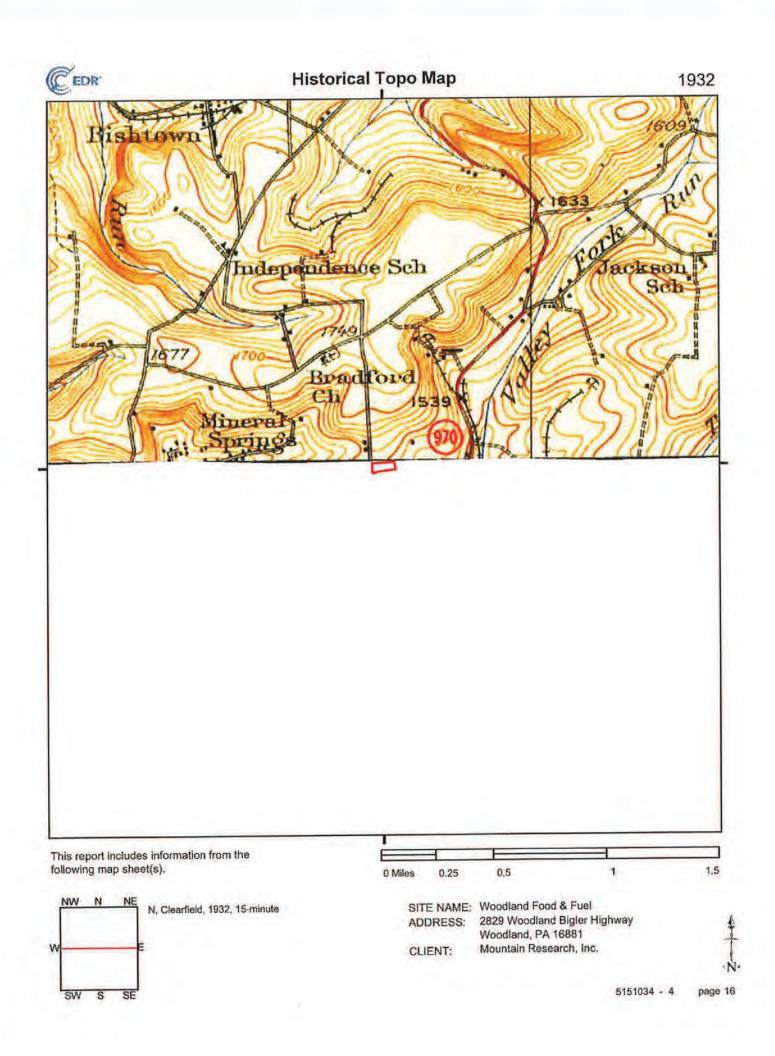


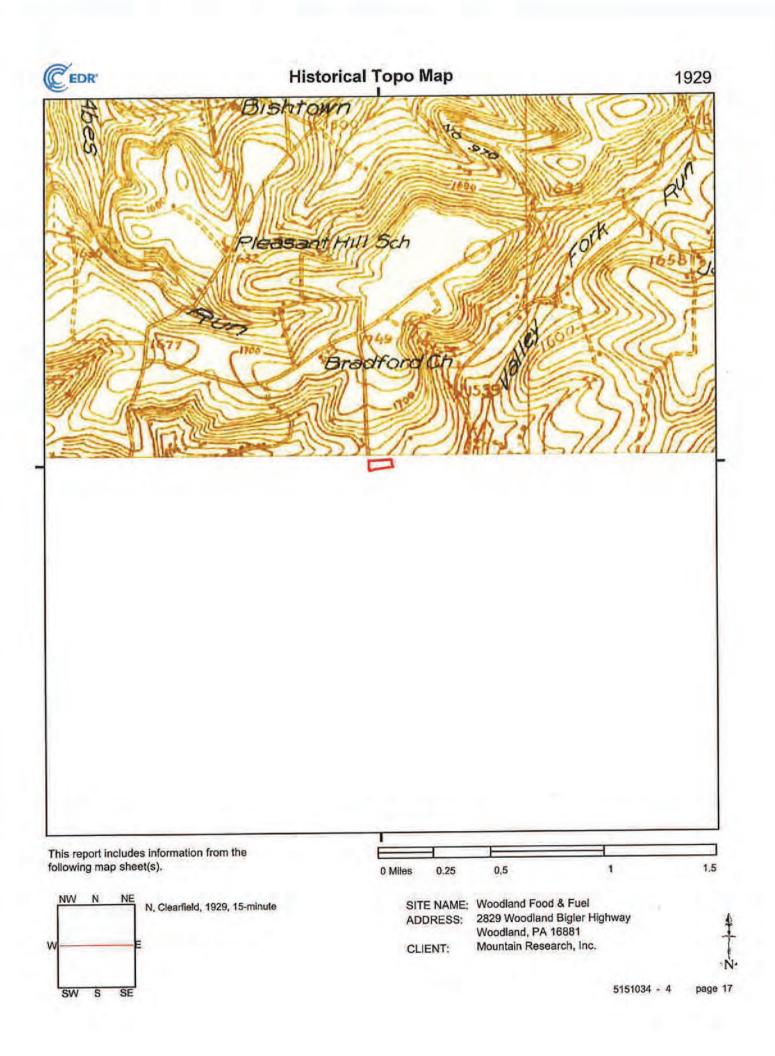


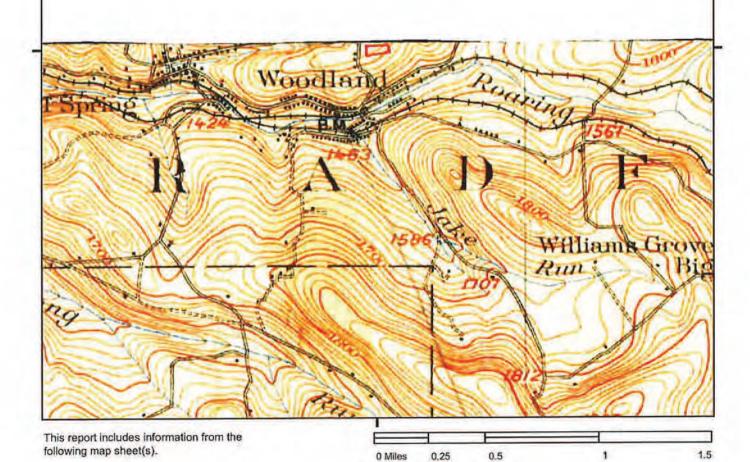












TP, Houtzdale, 1905, 15-minute

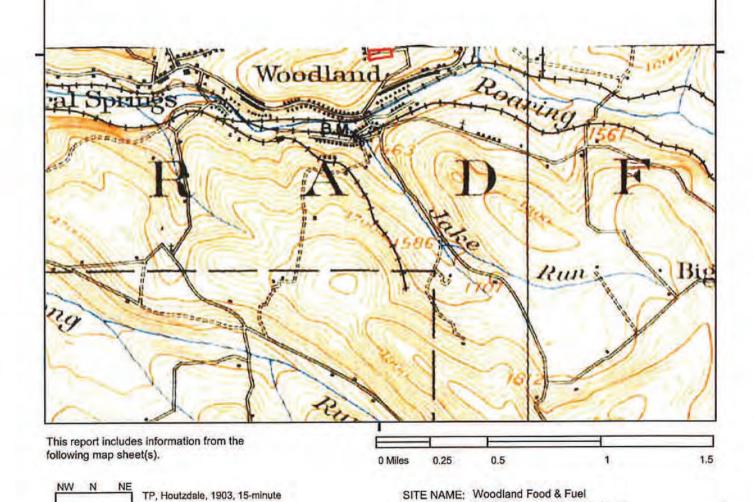
SITE NAME: Woodland Food & Fuel

ADDRESS:

CLIENT:

2829 Woodland Bigler Highway

Woodland, PA 16881 Mountain Research, Inc.



ADDRESS:

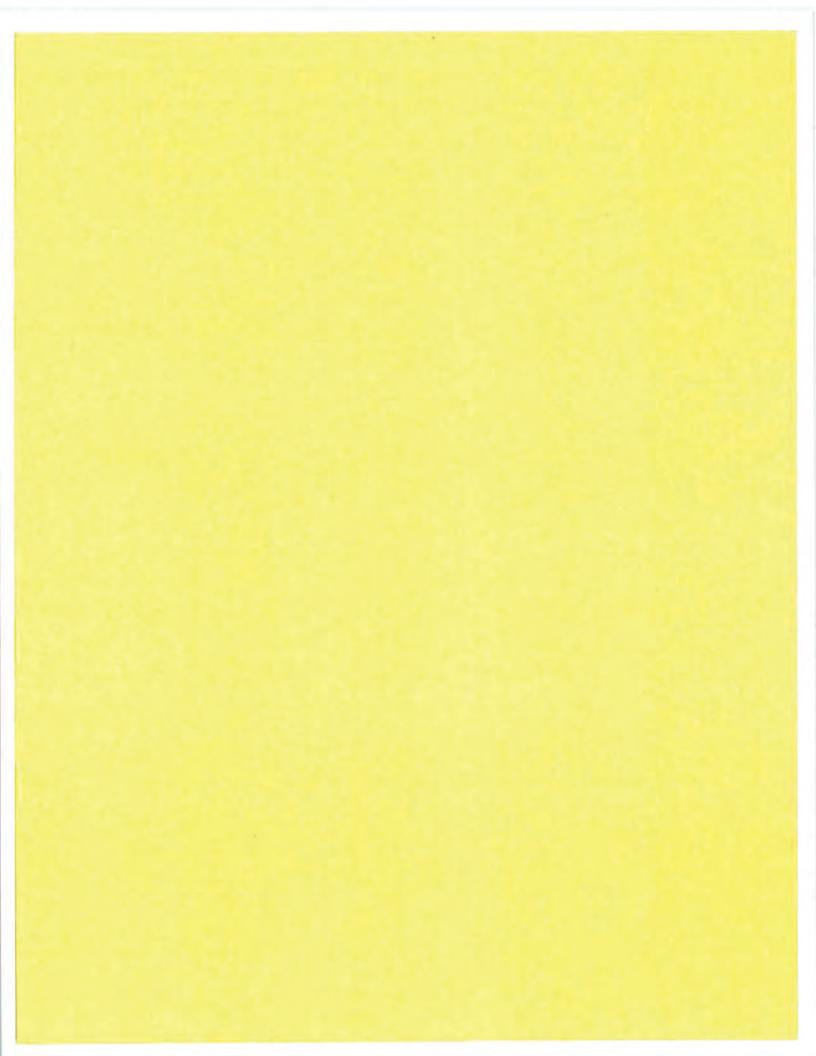
CLIENT:

2829 Woodland Bigler Highway

5151034 - 4

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Woodland, PA 16881 Mountain Research, Inc.



Woodland Food & Fuel

2829 Woodland Bigler Highway Woodland, PA 16881

Inquiry Number: 5151034.9

January 05, 2018

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

01/05/18

Site Name:

Client Name:

Woodland Food & Fuel 2829 Woodland Bigler Highway Woodland, PA 16881 EDR Inquiry # 5151034.9 Mountain Research, Inc. 825 25th Street Altoona, PA 16601 Contact: Matt Ference



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2010	1"=500"	Flight Year: 2010	USDA/NAIP
2008	1"=500"	Flight Year: 2008	USDA/NAIP
2006	1"=500"	Flight Year: 2006	USDA/NAIP
2005	1"=500"	Flight Year: 2005	USDA/NAIP
2000	1"=500"	Flight Date: April 30, 2000	USGS
1993	1"=500'	Acquisition Date: April 08, 1993	USGS/DOQQ
1991	1"=750"	Flight Date: April 03, 1991	USGS
1989	1"=1000"	Flight Date: June 30, 1989	USGS
1976	1"=1000"	Flight Date: July 19, 1976	USGS
1971	1"=500"	Flight Date: May 23, 1971	USGS
1969	1"=500"	Flight Date: March 23, 1969	USGS
1960	1"=500"	Flight Date: May 04, 1960	USGS
1958	1"=500"	Flight Date: May 18, 1958	USDA
1956	1"=500'	Flight Date: October 25, 1956	USGS
1940	1"=500"	Flight Date: October 22, 1940	USDA

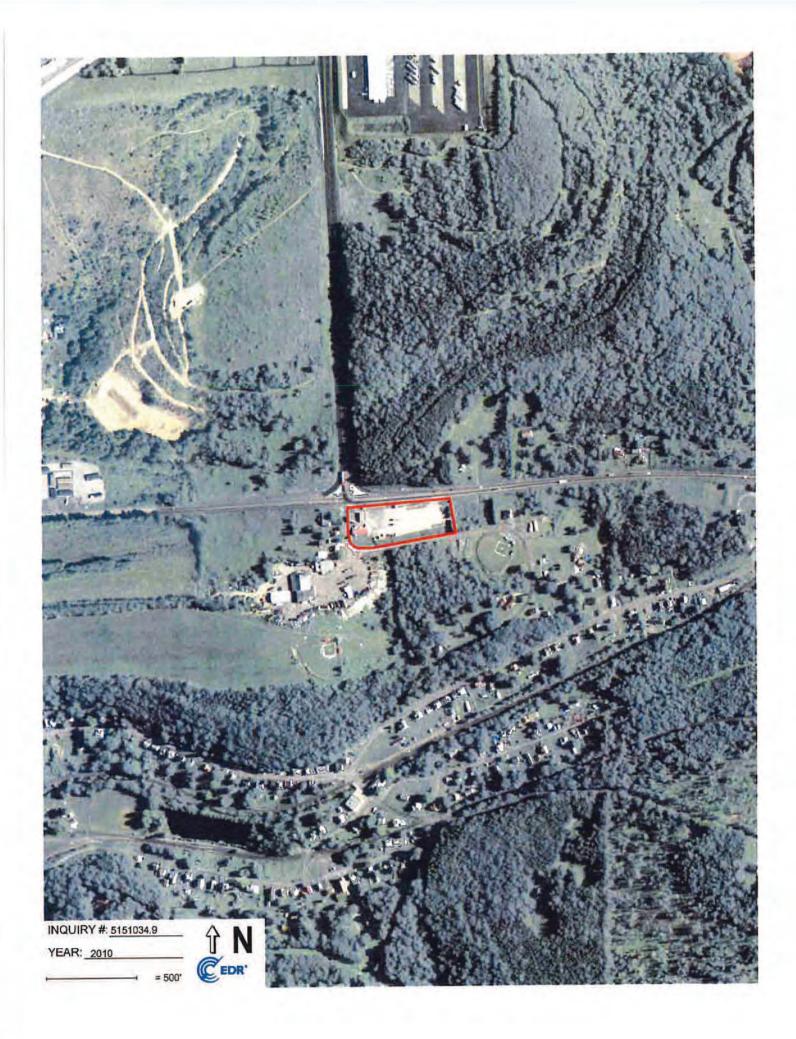
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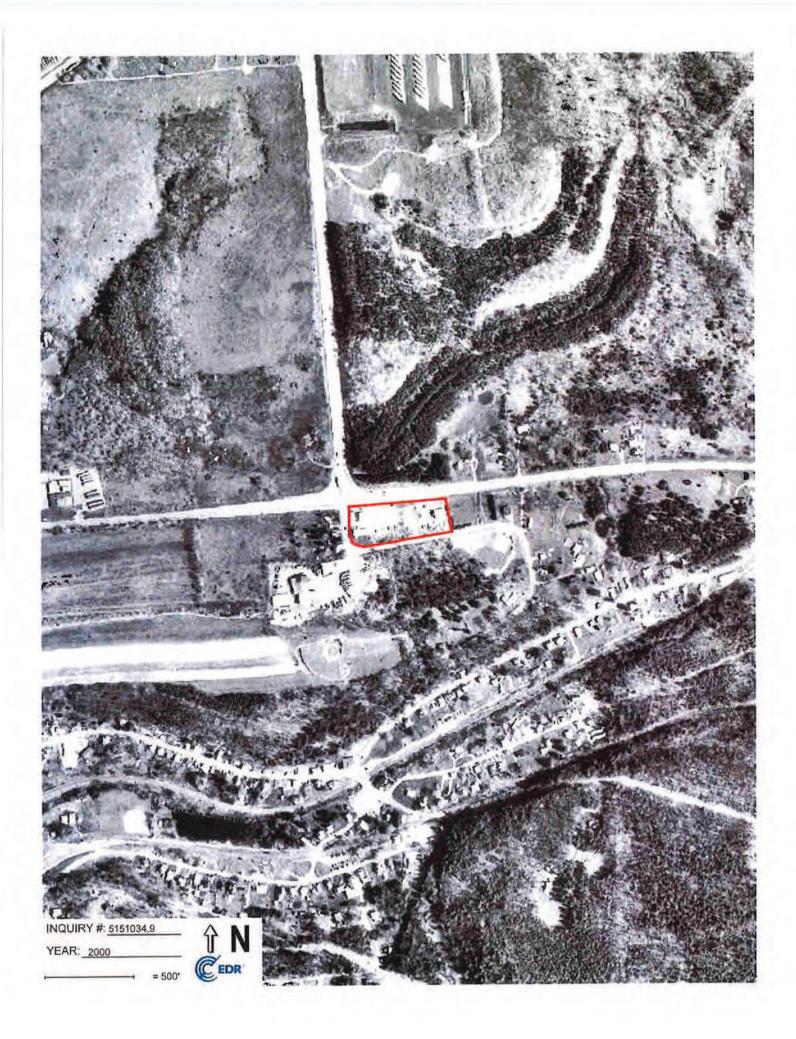
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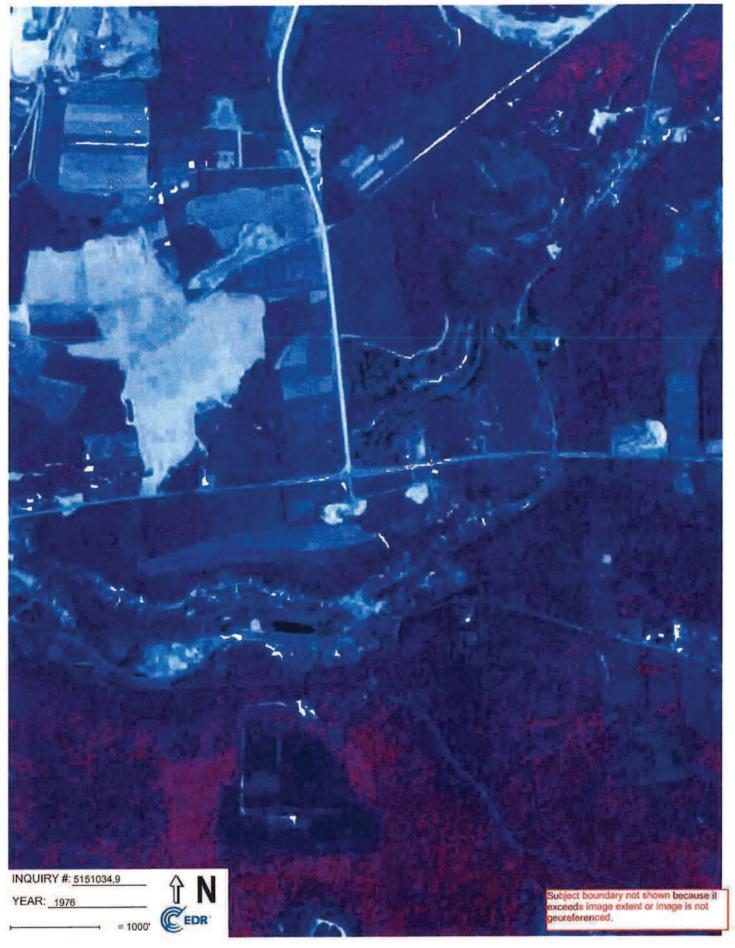




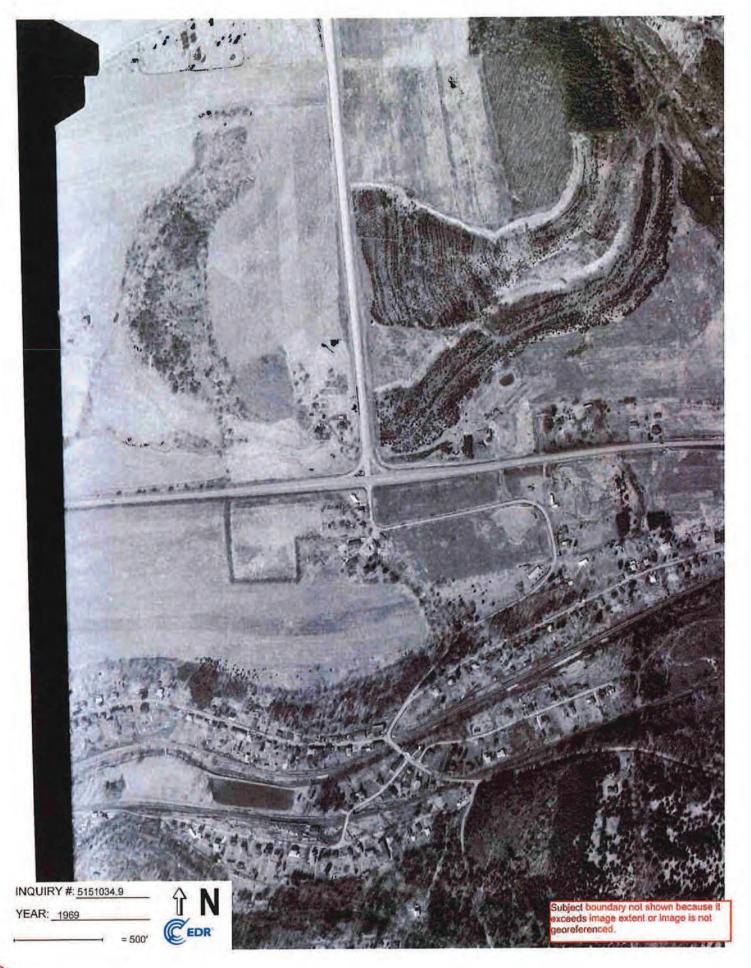












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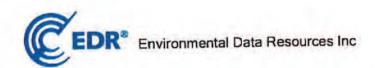




Woodland Food & Fuel 2829 Woodland Bigler Highway Woodland, PA 16881

Inquiry Number: 5151034.5 January 11, 2018

The EDR-City Directory Image Report



6 Armstrong Road Shelton, CT 06484 800,352,0050 www.edrnet.com

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SECTION

Executive Summary Findings City Directory Images

Thank you for your business.

Please contact EDR at 1-800-352-0050 with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	Target Street	Cross Street	Source
2014	\square	Ø	EDR Digital Archive
2010			EDR Digital Archive
2005	\square	Ø	EDR Digital Archive
2000	ū		EDR Digital Archive
1995	Ē		EDR Digital Archive
1992			EDR Digital Archive

FINDINGS

TARGET PROPERTY STREET

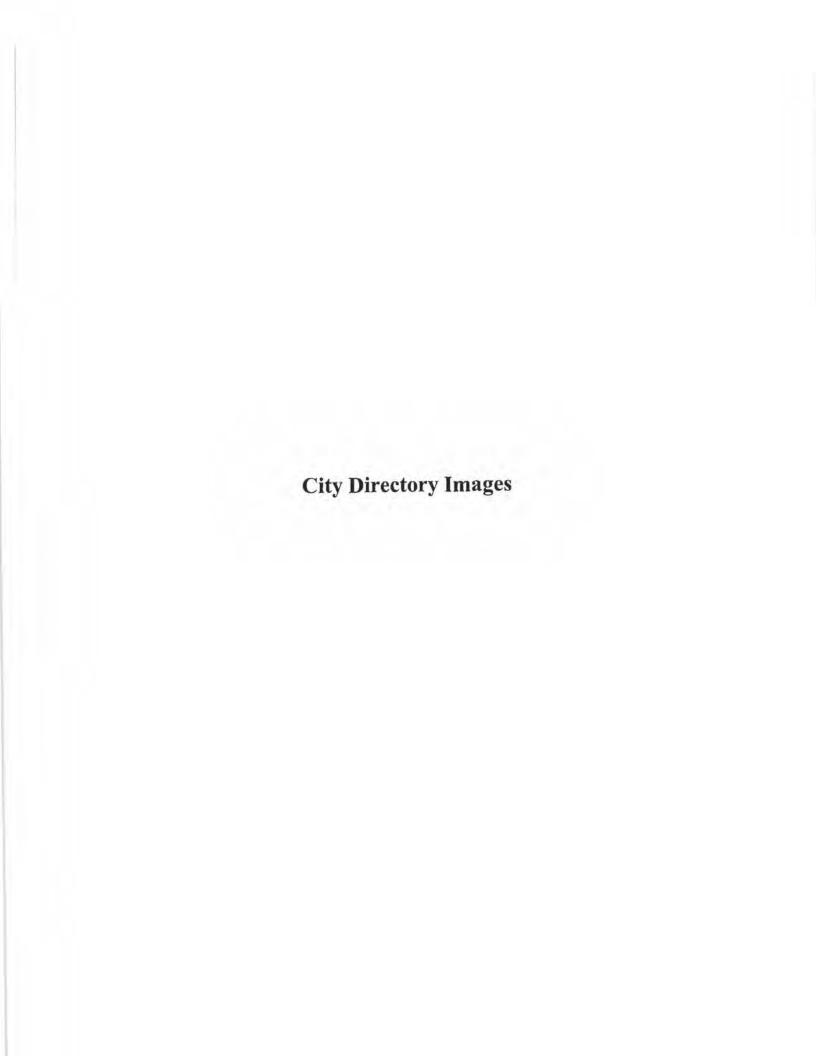
2829 Woodland Bigler Highway Woodland, PA 16881

<u>Year</u>	CD Image	Source	
WOODLAN	D BIGLER HWY		
2014	pg A2	EDR Digital Archive	
2010	pg A4	EDR Digital Archive	
2005	pg A6	EDR Digital Archive	
2000		EDR Digital Archive	Target and Adjoining not listed in Source
1995		EDR Digital Archive	Street not listed in Source
1992	12	EDR Digital Archive	Street not listed in Source

FINDINGS

CROSS STREETS

Year	CD Image	Source	
SHAWVILI	LE HWY		
2014	pg. A1	EDR Digital Archive	
2010	pg. A3	EDR Digital Archive	
2005	pg. A5	EDR Digital Archive	
2000		EDR Digital Archive	Target and Adjoining not listed in Source
1995		EDR Digital Archive	Street not listed in Source
1992	1.0	EDR Digital Archive	Street not listed in Source



SHAWVILLE HWY 2014

163	CONKLIN, EUGENE F
255	CASHER, SAMUEL W
	SHUGARTS, DEBBIE L
264	LEONARD, STEPHEN J
274	SALTSMAN TODD
	SALTSMAN, TODD A
282	SELLERS, ALLISON
296	GOODROW, HELEN I
340	HUNT, DOUGLAS L
507	ARMSTRONG TERMINAL INC
	SAMUEL J LANSBERRY INC
513	CRESS-WOOD COMPANY LLC
	WOODLAND EQUIPMENT & SUPPLY CO
523	HUGILL, JAMES L
533	KITKO, WILLIAM F
549	CASSIDY, MARJORIE J
1192	
1374	
1715	
2001	
2065	SMITCHKO TOOL & DIE INC
2497	COULTER, DANIEL
2758	LUZIER QUALITY SVC
	LUZIER, MARK E
3018	GRAHAM, MICHAEL A
3057	KUNKLE, RICHARD A
3075	
	DIXON, JANICE M
	BISHOP, JERRY W
	MOWERY, JASON P
3162	
	YINGLING, DAN L
3209	
3217	
3226	
3460	
3688	KEPHART, MARY
3717	CAPITAL IMPROVEMENTS
3750	HUBLER, SANDY L
3800	KEPHART, MARY L
3859	HINCHLIFFE, MARK J
3929	NELSON, KELLY R
3323	PA CLEANING SYSTEMS
3977	GABEL, PAMELA L
Juli	TAYLOR, THOMAS
4001	NORRIS, CHRIS N
4063	OCCUPANT UNKNOWN,
4255	FINNIGAN, REED E
7200	

WOODLAND BIGLER HWY 2014

40	MINIT MART 246
69	PARTASH, THOMAS G
	TOM PARTASH RACING
410	BENDER, DON A
475	MCCRACKEN, WARD H
482	RUPP, HENRY
510	JORDAN, GEORGE A
531	OCCUPANT UNKNOWN,
550	FREEMAN, DAVID L
579	OCCUPANT UNKNOWN,
606	OCCUPANT UNKNOWN,
649	POOLE, BONNI L
669	JEFFRIES, JAMES D
762	KEITH, JAMES L
776	ZIBILICH, G
840	NICKLAS, BRUCE A
843	OCCUPANT UNKNOWN,
854	PICARD, APRIL D
887	READ, RONALD E
910	ORTMAN, STEVEN
974	BROWN, ANDREA D
1026	DIMENSIONS BY SARA
1647	LITTLE, FRANK E
1717	SHOFESTALL, SHANNA
1752	NIXON, DAYTON V
2534	MARTELL, JEFFREY L
2556	WARD, HARRY L
2718	SHIREY, AMY M
22222	CICCUMOCOL AND FOOD & FUEL

SHAWVILLE HWY 2010

163	CONKLIN, EUGENE F
255	CASHER, SAMUEL W
274	SALTSMAN TODD
	SALTSMAN, TODD A
296	DECK LIGHTS AND DECALS
	SHIREY, EDWARD J
340	HUNT, DOUGLAS L
507	ARMSTRONG TERMINAL INC
	SAMUEL J LANSBERRY INC
513	CRESS-WOOD CO LLC
	WOODLAND EQUIPMENT & SUPPLY C
523	HUGILL, JAMES L
533	KITKO, WILLIAM F
549	PARKS, CHAR
1192	CON-WAY FREIGHT INC
1374	UNITED STATES POSTAL SERVICE
1715	CENTRE CONCRETE
2001	CONNER, THOMAS
2065	SMITCHKO TOOL & DIE INC
2497	COULTER, REBECCA S
3018	GRAHAM, MICHAEL A
	MGM EXCAVATING AND LOGGING
3075	DIXON, NORMAN B
3097	DIXON BOYD N
	DIXON, JANICE M
3104	BISHOP, JAMES R
3145	PIFER, LEONA I
3162	BISHOP, JERRY W
3179	YINGLING, DAN L
3209	WEBBER, TAMMY M
3217	MILLINDER, MICHAEL D
3226	ANDERSON, JENI
3460	SHAW, LORI L
3688	KEPHART, SHARON
3717	CAPITAL IMPROVEMENTS
3750	BEZILLA, MARK A
3800	KEPHART, CORINNA L
3859	HINCHLIFFE, MARK J
3929	NELSON, KELLY R
	PA CLEANING SYSTEMS
	REED & NORRIS ENTERPRISES INC
3977	GABEL, WILLIAM C
4001	NORRIS, CHRIS N
4255	FINNIGAN, REED E

Source EDR Digital Archive

WOODLAND BIGLER HWY 2010

69	PARTASH, THOMAS G
410	BENDER, DONALD C
475	MCCRACKEN, WARD H
482	RUPP, MARY H
550	FREEMAN, DAVID L
579	WELKER, MARGARET A
691	CLASSIC MUSCLE CARS
762	KEITH, JAMES L
776	ZIBILICH, G
843	GRUMBLATT, JASON D
854	PICARD, APRIL D
974	BROWN, ANDREA D
1026	DIMENSIONS BY SARA
1435	PETERS, BOYD G
1637	LITTLES DRIVE IN AUTO SALES
1647	LITTLE, FRANK E
1752	NIXON, DAYTON V
2534	MARTELL, JEFFREY L
2556	WARD, HARRY L
2718	SHIREY, AMY M
2020	CLOC MOOD! AND EOOD & ELIE!

SHAWVILLE HWY 2005

255	CASHER, SAMUEL W
264	BUCK, RUSSELL L
274	MCCRACKEN, BLAIR E
296	SHIREY, EDWARD
507	ARMSTRONG TERMINAL INC
	WOODLAND EQUIPMENT & SUPPLY CO
513	CRESS-WOOD COMPANY
523	HUGILL, JAMES C
533	KITKO, WILLIAM H
549	CASSIDY, MARJORIE J
921	BLOOM, JOSEPH
1192	CON-WAY CENTRAL EXPRESS INC
1374	PYRAMID HEALTHCARE
	UNITED STATES POSTAL SERVICE
2497	COULTER, DANIEL
2758	DIXON, MELISSA A
3145	MCKENDRICK, TAMMY M
3179	BISHOP, WILLIAM L
3217	STEPHENSON, ALBERT
3604	BEZILLA, MARK A
3859	HINCHLIFFE, MARK J
3929	NELSON, KELLY R
	PA CLEANING SYSTEMS
3977	GABEL, WILLIAM P
4001	NORRIS, CHRIS
4063	BUCK, ROBERT E
4255	FINNIGAN, MARCIA J

Source EDR Digital Archive

WOODLAND BIGLER HWY 2005

410	BENDER, CHAD
475	HANSARD, JANET
482	RUPP, GLEN
510	JORDAN, GEORGE A
550	FREEMAN, DAVID L
669	LOMBARDO, GUY M
762	KEITH, JAMES L
776	KRISE, RUSSELL A
854	MILLINDER, MICHAELA
887	SHERIDAN, DANIEL M
1026	DIMENSIONS BY SARA
1647	LITTLE, FRANK E
1752	D&M AUTO REPAIR
	NIXON, DAYTON V



Woodland Food & Fuel 2829 Woodland Bigler Highway Woodland, PA 16881

Inquiry Number: 5151034.3

January 04, 2018

Certified Sanborn® Map Report



Certified Sanborn® Map Report

01/04/18

Site Name:

Client Name:

Woodland Food & Fuel 2829 Woodland Bigler Highway Woodland, PA 16881 EDR Inquiry # 5151034.3 Mountain Research, Inc. 825 25th Street Altoona, PA 16601 Contact: Matt Ference



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Mountain Research, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # AF5B-4D58-ADFF

PO# 24591

Project

4923.18.01.50

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: AF5B-4D58-ADFF

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

✓ Library of Congress

✓ University Publications of America

✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX E
PAGWIS DATABASE LISTINGS

DEPARTMENT OF CONSERVATION & NATURAL RESOURCES
BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY
WATER WELL PROGRAM
3240 Schoolhouse Rd
Middletown, PA 17057
717-702-2017

		WATER	WELI	WELL INFORMATION REPORT	MATI	ON REP	ORT	
PA Well ID:	661804	Loc	Local Well ID:			LC	Local Permit #:	
			LOCA	LOCATION INFORMATION	ORMAT	NOI		
Owner:		Gios BBQ	& G	& Gas Station	Original Pa Available:	Original Paper Record Image Available:	rd Image No	0
Address of Well:		2829 Twer 16881	ty-Eighth	2829 Twenty-Eighth Division Hwy 16881	Α.			
County: Municipality:		CLEARFIELD BRADFORD TWP.	ELD RD TWP.					
Latitude:		40.99954			Coordi	Coordinate Method:		Commercial Street Atlas Program
Longitude:		-78.34647			Data R	Data Reliability:)
Description of We Notes:	Description of Well Location and Other Notes:	h						
		WE	TLCON	WELL CONSTRUCTION INFORMATION	ON INFO	RMATION		
Well Driller:	TERRA TESTING, INC.		License:	2309			Driller Well ID:	18510-RW-1
Type of Activity:	New Well	Da	te Drilled:	Date Drilled: 1/16/2018			Drilling Method:	Drilling Method: BORED OR AUGERED
Well Depth (ft):	14.5	We	Well Finish:	PERFORATED OR SLOTTED	TED OR S	LOTTED		
WELL SIZE								
Top (ft)	B	Bottom (ft)				Diameter (in)	0	
0	4	14.5				4		
CASING								
Top.(ff) Bottom.(ff) 0 9.5	(fi) Diameter (in) 4	Casing Material PVC OR OTHER PLASTIC	erial THER PL	ASTIC	Seal Top 5.5	Seal Bottom		Seal Type BENTONITE CHIPS OR PELLETS
SCREEN/SLOT								
Top.(ff) Bottom.(ft) 9.5 14.5	Diameter (in).	Type PERFORATI	ED, PORC	ED, POROUS, OR SLOTTED CASING	TTED CA	SING	Material Size PLASTIC 0.02	Size (in) Packing 0.02 SAND - SCREENED

GROUNDWATER AND GEOLOGICAL INFORMATION

Well Yield (GPM - gal per min):

9/20/2018

Water Level when not pumped: (ft below

land surface)

Length of Yield Test (minutes):

Use of Well:

WITHDRAWAL

MATERIALS WELL PENETRATES

Top (ft) Bottom (ft) Description

14.5 Fill, brown silty clay, gravel, boulders, hard, gray

Depth to Bedrock (ft):

Was Well Drilled Into Bedrock?

Yield Measurement Method:

Water Level after yield test: (ft below land surface)

Saltwater Zone (ft):

Use of Water:

Yes

Date Printed: 9/20/2018

DEPARTMENT OF CONSERVATION & NATURAL RESOURCES
BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY
WATER WELL PROGRAM
3248 Schoolhouse Rd
Middletown, Pa 17057
717-702-2017

		WATER WELL IN	WELL INFORMATION REPORT	PORT
PA Well ID:	661805	Local Well ID:	I	Local Permit #:
		LOCATIO	LOCATION INFORMATION	
Owner: Address of Well: County: Municipality:		Gios BBQ & amp; Gas Station 2829 Woodland Bigler CLEARFIELD BRADFORD TWP.	Original Paper Record Image Available:	mage No
Latitude:		40.99946	Coordinate Method:	Commercial Street Atlas Program
Longitude: Description of We Notes:	Longitude: Description of Well Location and Other Notes:	-78.34650 sr	Data Reliability:	
		WELL CONSTR	WELL CONSTRUCTION INFORMATION	Z
Well Driller:	TERRA TESTING, INC.	G, INC. License: 2309		Driller Well ID: 18510-RW-2
Type of Activity: Well Depth (ft):	New Well 14	Date Drilled: 1/16/2018 Well Finish: PERFOR	1/16/2018 PERFORATED OR SLOTTED	Drilling Method: BORED OR AUGERED
WELL SIZE				
<u>Top (ff)</u> 0	Bo 14	Bottom (ft) 14	Diameter (in)	(<u>ui</u>
CASING				
Top (ft) Bottom (ft) 0 9	L(ft) Diameter (in) 4	Casing Material PVC OR OTHER PLASTIC	Seal Top Seal Bottom	n Seal Type BENTONITE CHIPS OR PELLETS
SCREEN/SLOT	-			
Top.(ft) Bottom.(ft) 9 14	Diameter (in).	Type PERFORATED, POROUS, OR SLOTTED CASING	OR SLOTTED CASING	Material Size (in) Packing PLASTIC 0.02 SAND - SCREENED
		GROUNDWATER AND	GROUNDWATER AND GEOLOGICAL INFORMATION	MATION

Water Well Information Report

Well Yield (GPM - gal per min):

9/20/2018

Water Level when not pumped: (ft below

land surface)

Length of Yield Test (minutes):

Use of Well:

WITHDRAWAL

MATERIALS WELL PENETRATES

Top (ff) Bottom (ff) Description

0.2 Asphalt

14 Fill, Brown silty clay, gravel, boulders, hard, dry

Depth to Bedrock (ft):

Was Well Drilled Into Bedrock?

Yield Measurement Method:
Water Level after yield test: (ft below land surface)
Saltwater Zone (ft):
Use of Water:

Yes Date Printed: 9/20/2018



Drilling, Soil Sampling, Well Construction Methods

Boring/monitoring well locations were selected based on site physical constraints (i.e., overhead and underground utilities, property boundaries, locations of removed tanks and distribution system, and structures). In addition to the location of potential soil and ground water contamination, borings were advanced during the site study using the following drilling methods:

Air Rotary

Air rotary drill rigs were used to advance borings for monitoring well installation.

Boring diameters ranged from 10 inches to 8 inches in diameter. Soil/monitoring boring logs were constructed by identification of drill cuttings using the Unified Soil Classification System (USCS).

Hollow Stem Auger

Hollow stem auger drilling was used to advance borings for the purpose of collecting soil samples and to install monitoring wells. The auger size used was 4 inch inside diameter (7.25 inch outside diameter). Boring logs were constructed by direct observation of the split spoon and core soil samples. Soils were described using the USCS.

Direct Push Drilling

Direct push drilling was used to collect soil samples using a continuous core. Soil samples were collected in a 5 foot x 2 inch diameter PVC tube. Lithologic logs were constructed by direct observation of the continuous soil sampling liners. Soils were described using the USCS.

Soil Sample Collection

Drill cuttings from air rotary borings were scanned for volatile organic compounds (VOCs) using a photoionization detector (PID). However, these PID measurements from the air rotary drilling method should be considered qualitative due to the high potential for volatilization of compounds in the air stream. Also, the air stream was scanned during drilling advancement in order to monitor breathing zones for health and safety protocol.

Soil samples from hollow steam auger and direct push borings were screened for VOCs using a PID. Soil samples were collected from each boring on the basis of PID measurements and visual observations. Soil samples were collected for VOC by inserting an Encore® sampler or TerraCore® Sampler into the soil core. The soil from the sampler was deposited in a laboratory provided 40-milliliter glass container and preserved with methanol. For semi-volatile analysis soils were collected into a laboratory provided 4-ounce glass jar. The samples were labeled, stored in a chilled cooler, and transported to the analytical laboratory under a chain of custody.

Monitoring Well Construction

Monitoring wells were constructed of 2 inch or 4 inch diameter PVC/Steel/Wire Wrap casing. Screened intervals were constructed of .010 machine slotted casing. Appropriately sized PVC blank riser extended wells to the ground surface. The annuli between the boreholes and screened intervals was packed with clean quartz sand. The sand pack was extended approximately two feet above the top of the screened interval. The remaining vertical interval above the sand pack was Bentonite sealed to the surface. Each well was completed in a flush mounted manway.

Direct Push Boring Advancement and Soil Sampling Methods

In addition to the location of potential contamination, boring/monitoring well locations were selected with knowledge of site physical constraints (i.e., overhead and underground utilities, property boundaries, locations of removed tanks and distribution system, and structures). Borings were advanced during the site study using the following drilling methods:

Direct Push Drilling

Direct push drilling was used to collect soil samples using a continuous core. Soil samples were collected in a 5 foot x 2 inch diameter PVC tube. Lithologic logs were constructed by direct observation of the continuous soil sampling liners. Soils were described using the USCS.

Soil samples were collected from soil borings following the method below:

Soil Sample Collection

Soil samples from direct push borings were screened for VOCs using a PID. Soil samples were collected from each boring on the basis of PID measurements and visual observations. Soil samples were collected for VOC by inserting an Encore® sampler or TerraCore® Sampler into the soil core. The soil from the sampler was deposited in a laboratory provided 40-milliliter glass container and preserved with methanol. For semi-volatile analysis soils were collected into a laboratory provided 4-ounce glass jar. The samples were labeled, stored in a chilled cooler, and transported to the analytical laboratory under a chain of custody.

Groundwater Sampling Methods

The sample collection methodology used by Mountain Research was designed to comply with US Environmental Protection Agency (EPA) SW-846 protocol and the Pennsylvania Groundwater Monitoring Guidance Manual, December 1, 2001. Prior to sampling, all field sampling equipment was properly cleaned to avoid sample contamination. The static water level (SWL) of each well was measured as the first step in sampling. These measurements were used to calculate groundwater elevation at each well.

Each well was purged of at least three well volumes of fluid, or until the monitoring well went dry, using a submersible pump or dedicated disposable bailer. Samples were then collected using the dedicated disposable bailer. Groundwater was decanted from the bailer into appropriate, laboratory supplied containers. The samples were labeled and stored in an ice cooler for transport to the analytical laboratory.



WASTE MANIFEST	I. Generator ID Number PAVSQG	2. Page 1 of	3. Emergency Respon- 1-866-9	se Phone 32-6723	4. Waste Tr	acking Num 1982	nber
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IT	17a. Discrepancy Indication Space Quantity	Туре	Residue		Partial Re	jection	Full Rejection
П							
I	17b. Alternate Facility (or Generator)	- A	Manifest Reference	Number:	U.S. EPA ID	Number	
15	170. Alternate Paciny (or Generator)				VIW LITTIN	. Tumou	
FACILITY	Facility's Phone:	-4			1		
8	17c. Signature of Alternate Facility (or Generator)				-		Month Day Year
A							
DESIGNATED							
DE							
		and the property of	cated to the case				
Ш	18. Designated Facility Owner or Operator: Certification of receipt of materials of Printfol Typed Name	covered by the manifest except as Signatu				1	Month Day Year
V	Green Berger	o syrain	to	LOC	vers!	9	18 18118
H	C Labels • Printed in the USA		-		THE RESERVE OF THE PERSON NAMED IN	Parti	MANIFEST-CONHWO
					THE RESERVE AND ADDRESS OF THE PERSON.		





Generator Name: M+ K	esection		Total State of the	(if different):		
Address:			Address:	27.24 Wood	Vined Bis	ler Itm
City:	State:	Zip:	City: Wi	edland	State: A	Zip, CES
Phone:	Contact:		Phone		Contact:	
			Pu	rchase Order No: 2	4663	
Transporter 1 Company Name:	Water Depoi	t, Inc. Su		nologies, Inc.		
Transporter 2 Company Name:						
Designated Facility Name: Water	Depot, Inc.		Other:			
	vondale Rd.					
City: New Windsor	State: MD	Zip: 21776				
Phone: 410-857-9670						
FIGURE TIP-OUT-OUT	SI	ninning Nan	e & Desc	ription		
Non-hazardous/Non-regulated Material:		Gallons:	Name & Description Non-hazardous/Non-regulated Mate		Material:	Gallons:
Petroleum-Contaminated Water		764		Liquids, N O S , (fuel oil & wat	er for recycling),	
Petroleum-Contaminated Sludge			3, NA 1993, F		aler for recyclical	
Oil for Recycling			3, NA 1993, I	Liquids, N.O.S., (gasoline & w PGIII	ater for recycling),	
Oil & Water for Recycling			Glycol & Wat	er for Recycling		
Other		Cont	alners	Quantity	Volume/U	Joits
			Туре	- Comme	Volume/U	Inite
Other:		Containers Na Type		Quantity	voiminev	Jenio
Special handling instructions Generator/Shipper Certification Sta As the generator or shipper, I hereby certify the combined or blended in any amount with any or Technologies, inc. harmless for any damages a	tement	rly classified and does			the best of my knowled lemnify and hold Water	ige it has not been mi Depot, inc. or Subsur
W Generator Authorized Agent Printe		at same to a present	X Signal		Date	1/2/
Transporter 1 Printed Name	coultr		X Signal	ture the Co	Date	1 /2/
X Stallien	/		X Signal	ture	Date	1 1
61-11						
Transporter 2 Printed Name Discrepancy Indication Space	I.				ated in all courses	u Indication area
Transporter 2 Printed Name	ator: Certification		als covered by	the manifest except as n	oted in discrepanc	



Generator Name: 174 17	enear Al		Site Name	(If different): 6 ič	5	
Address:			Address:	23,29 100	odla uci si	ale Hour
City:	State:	Zip:	City: IV	bud had	State:	zip:
Phone,	Contact:		Phone		Contact	
Transporter 1 Company Name:	Water Depot	, Inc. Sul		nologies, Inc.	24663	
Transporter 2 Company Name:						
Designated Facility Name: Water	Depot, Inc.		Other:			
Address: 1301 A	vondale Rd.					
City: New Windsor	State: MD	Zip: 21776				
Phone: 410-857-9670						
	Sh	ipping Nam	e & Desci	ription		
Non-hazardous/Non-regulated Material:		Gallons:	Non-hazardous/Non-regulated		d Material:	Gallons:
Petroleum-Contaminated Water		16.5	Combustible	Liquids, N.O.S., (fuel oil & wa	iter for recycling),	
Petroleum-Contaminated Studge		1,6	3, NA 1993, F	The state of the state of the state of		
Dil for Recycling			3, NA 1993, F	Liquids, N.O.S., (gasoline & v PGIII	water for recycling).	
Oil & Water for Recycling			Glycol & Wate	er for Recycling		
Other:		Containers		Quantity	Volume/Un	ilts
		No 1	Гуре			
Other.		Cont	alners	Quantity	Volume/Ur	nits
Special handling instructions		1977	Гуре			
Generator/Shipper Certification Stat As the generator or shipper, I hereby certify that combined or blended in any amount with any of rechnologies, Inc. hermiess for any damages ar	ement	ly classified and does	ar applicable law. G	enerator/Snipper agrees to in	o the best of my knowledg demnify and hold Water D	e it has not been mil spot, Inc. or Subsuri
Generator Authorized Agent Printed		1	X Signati	Janon W.	Date	1 32
Transporter 1 Printed Name	i croft	1	X Signati	Skiles for	Date	1 3
X Transporter 2 Printed Name			X Signate	X Signature Date		
					and la discounts	Indication carrie
Discrepancy Indication Space Designated Facility Owner or Operator	tor: Certification o		als covered by t	he manifest except as n	noted in discrepancy	



Generator Name: MT Res	enrch		Site Name	(if different): Gic's		
Address:			Address:	2829 400	Hard Nick	of Aug
City:	State:	Zip:	City: Wa	2829 wow	State: /c.	Zip/682/
Phone:	Contact:		Phone		Contact:	
Transporter 1 Company Name:	Water Depot,	, Inc. 🔲 S	Pu Subsurface Tech	rchase Order No: inologies, Inc.	24663	
Transporter 2 Company Name:						
Designated Facility Name: Water	Depot, Inc.		Other:			
Address: 1301	Avondale Rd.					
City: New Windsor	State: MD	Zip: 21776				
Phone: 410-857-9670						
	Sh	ipping Na	me & Desc	ription		
Non-hazardous/Non-regulated Material:		Gallons:		Non-hazardous/Non-regulated Mate		Gallons:
etroleum-Contaminated Water		327		Combustible Liquids, N.O.S., (fuel oil & water for recycli		
etroleum-Contaminated Studge			3, NA 1993, F	Combustible Liquids, N.O.S., (gasoline & water for recycling).		
Nil for Recycling			3, NA 1993, F		water for recycling).	
II & Water for Recycling			Glycol & Wat	Glycol & Water for Recycling		
Other:		Containers		Quantity	Valume	Units
		No	Туре		W.100	202
Other:		No	Type	Quantity	Volume	Units
Special handling instructions Generator/Shipper Certification States to the generator or shipper, I hereby certify the	tement	by alexa Mad and do	as not contain Polychi	iorinated Rinhanyls (PCRs). To	o the best of my knowle	dge it has not been mis
ts the generator or shipper, I hereby certify the combined or blended in any amount with any of schnologies, inc. harmless for any damages a Generator Authorized Agent Printe	ther material defined as rising from or in any wa	heterdous waste u	nder soplicable law. G	Statement.	demnity and hold Water	Depot, me, or substitu
Transporter 1 Printed Name	Coffy		X Signati	atch OS	Date	
STEINER	Suite		X Signat	ure	Date	
Transporter 2 Printed Name						
Discrepancy Indication Space						
^	tor; Cartification of		erlats covered by t	he manifest except as r		y Indication space



Generator Name: MH Le	search		Site Nam	e (If different):	s wear	LAND		
Address:		11	Address:	2829 W	is lind been	der ywy		
City:	State:	Zip:	City: /if	adjust Tur	State	Zip: 1606		
Phone:	Contact		Phone		Contact:	ract:		
			F	Purchase Order No:	14663			
Transporter 1 Company Name:	Water Depor	t, Inc.	Subsurface Tec					
Transporter 2 Company Name:								
Designated Facility Name: Water	er Denot Inc		Other:					
1000	Avondale Rd.							
100	231.97.237.232.33		10					
City: New Windsor	State: MD	Zip: 2177	6					
Phone: 410-857-9670						_		
	SI	nipping N	ame & Des	cription				
Non-hazardous/Non-regulated Material:		Gallons: N		Non-hazardous/Non-regulate	d Material:	Gallons:		
Petroleum-Contaminated Water		512		Combustible Liquids, N.O.S., (fuel oil & water for recyclin 3, NA 1993, PGIII				
Petroleum-Contaminated Studge			Combustible	Combustible Liquids, N.O.S., [gasoline & water for recy				
Oil for Recycling				3, NA 1993, PGIII				
Dil & Water for Recycling			Person AV	ater for Recycling Quantity	Volume/t	Inite		
Other		No	Type	Citamity	Your	7000		
		170	Containers	Quantity	Volume/I	Inits		
Other:		No	Туре					
Special handling instruction Generator/Shipper Certification S As the generator or shipper, I hereby certify combined or blended in any amount with any fechnologies, Inc. harmless for any damage	tatement	rly classified and d	under applicable law.	Generator/Shipper agrees to it	To the beat of my knowled ndemnify and hold Water	ge It has not been mi Depot, inc. or Subsur		
Generator Authorized Agent Prin			X Signa	-	Date	2/3		
Transporter 1 Printed Name	1	/	X Signa	ature The Len To	Date Date	2 131		
Transporter 2 Printed Name	1		X Signi	ature -	Date	11		
Discrepancy Indication Space					noted in discrenance	Indication enace		
20000002	and an Oracle and	of secondary at our						
Designated Facility Owner or Ope	erator: Certification o		Pance Signature		Da			



NON-HAZARDOUS WASTE MAN	2014		Site Name (i	if different): Giola			
Address			Address:	829 woodland	Schot 1	tury	
City:	State:	Zip:	City	diani	State: /G	Zip: 881	
Phone:	Contact:		Phone		Contact:		
7] Water Depot	, Inc. Sub		ALL STREET	الالميا)		
Transporter 2 Company Name:	lanet for		Other				
Designated Facility Name: Water D			Other:				
Addition.	rondale Rd.		-				
City: New Windsor	State: MD	Zip: 21776	-				
Phone: 410-857-9670							
	Sh	nipping Nam	e & Descr	ription			
Non-hazardous/Non-regulated Mat		Gallons:	Nor	n-hazardous/Non-regulated N		• Gallons:	
Petroleum-Contaminated Water		352	Combustible L 3, NA 1993, P	Liquids, N O S , (fuel oil & water	or for recycling).		
Petroleum-Contaminated Studge			the state of the s	GIII Liquids, N.O.S., (gasoline & wal	ter for recycling).		
Oil for Recycling			3, NA 1993, P	PGIII			
Oil & Water for Recycling			100000000000000000000000000000000000000	er for Recycling	11 1222	e/Linite	
Other		Containers		Quantity	Volun	ne/Units	
		100	Гурв	Character	Voter	ne/Units	
Other:			lype	Quantity	Volum		
Special handling instructions of Generator/Shipper Certification State As the generator or shipper, I hereby certify that I combined or blended in any amount with any other	ement	orly classified and does	not contain Polychi e applicable law. Go	orinated Biphenyls (PCBa). To teneratorishipper agrees to Inde	the best of my know smally and hold Wal	dedge It has not been n ter Depot, Inc. or Subst	
combined or blended in any amount with any oth Technologies, Inc. harmless for any damages aris Generator Authorized Agent Printed	and non or ar any r	vay relating to a breach	X Signate		Da		
O CACATAL E	s made	,	X Signati	It was Car	A De	ale ala	
Transporter 1 Printed Name	- Andrew		X Signat	ture ,	Di	ate	
Transporter 1 Printed Name Transporter 2 Printed Name							
A Stelle							



Generator Name: MT Re	Search		Site Name	(If different): Colos		
Address:			Address:	RERG wad	level Roll	er they
City:	State:	Zip:	CO.	adhid	State	Zip:
Phone:	Contact;		Phone		Contact:	
CONTRACTOR OF THE CO.	Water Depot	Inc. Su	Pu bsurface Tech	nologies, Inc.	24663	
Transporter 2 Company Name:						
Designated Facility Name: Wate	r Depot, Inc.		Other:			
Address: 1301	Avondale Rd.					
City: New Windsor	State: MD	Zip: 21776	1			
Phone: 410-857-9670						
	Sh	ipping Nam	e & Desci	ription		
Non-hazardous/Non-regulated Material:		Gallons:		-hazardous/Non-regulated Material:		Gallons:
Petroleum-Contaminated Water		302		Liquids, N.O.S., (fuel oil & water	r for recycling),	
Petroleum-Contaminated Sludge		3, NA 1993, Pi				
Oil for Recycling			3, NA 1993, P	Liquids, N.O.S , (gasoline & wal PGIII	ter for recycling).	
Oil & Water for Recycling			Glycol & Wate	er for Recycling		
Other:		Containers		Quantily	Volume/U	Inits
		No	Гуре			
Other		Containers		Quantity	Volume/t	Inits
Special handling instructions Generator/Shipper Certification St		- Contract of the contract of	Гуре			
As the generator or shipper, I hereby certify the combined or blended in any amount with any Technologies, Inc. harmless for any damages	nat this material is proper	hazardous wasts und	er applicable law. G	enerator/Snipper agrees to inde	he best of my knowled mnify and hold Water	ge it has not been mis Depot, Inc. or Subsurf
Generator Authorized Agent Print	ted Name	+ FUEL	X Signatu	we A	Date	Z/z/
Transporter 1 Printed Name			X Signal	Stal litt	Date	@ 1271
Transporter 2 Printed Name	1		X Signati	ure y	Dale	11
Discrepancy Indication Space						
Designated Facility Owner or Open	rator: Certification o		ice Signature	he manifest except as not	ed in discrepancy	Indication space



Generalor Name: Mit Re	search		Site Name	(if different): Gio	5		
Address:			Address:	28,29 Wasy	Hend Fil	to Awy	
City;	State:	Zip:	City: /rac	derd Tup	State:	Zip: /633*/	
Phone:	Contact:		Phone		Contact:		
			Pu	rchase Order No:	24663		
Transporter 1 Company Name: I	Water Depo	t, Inc. Sub	surface Tech	nologies, Inc.			
Transporter 2 Company Name:							
Designated Facility Name: Wate	r Depot, Inc.		Other:				
	Avondale Rd.						
City: New Windsor	State: MD	Zip: 21776					
Phone: 410-857-9670	Sidio. IIID	-p11114					
Friorie. 410-037-3070	01	dealer New	. 0 Dece	-l-Al			
No. boards and a second		nipping Nam		n-hazardous/Non-regulated A	Antarial:	Gallons:	
Non-hazardous/Non-regulated	Material;	i+)L	200000000000000000000000000000000000000	Liquids, N.O.S., (fuel oil & water		Gallons.	
etroleum-Contaminated Studge		176	3, NA 1993, F		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
ill for Recycling			Combustible 3, NA 1993, F	Liquids, N.O.S., (gasoline & wal PGIII	ter for recycling).		
il & Water for Recycling			Glycol & Wate	er for Recycling			
Other:		Conta	Iners	Quantity	Volume/U	nits	
		No Ty	/pe				
Other:		Conta	1001	Quantity	Volume/U	Volume/Units	
Special handling instructions			/pe				
Senerator/Shipper Certification States the generator or shipper, I hereby certify the ombined or blended in any amount with any eachnologies, inc. hurmless for any demages	at this material is prope other material defined as	hazardous waste under	applicable law. Ge	enerator/Shipper agrees to inde	ne best of my knowled; mnify and hold Water D	je it has not been mixe epot, inc. or Subsurfa	
Generator Authorized Agent Print	ed Name		X Signat	in M	Date	4/3/1	
TAMILI / TO WI		2	X Signatu	teda with	Date	41818	
Transporter 1 Printed Name	W CHIT		W Signatu	urb/	Date		
	w Crust		X Orginal			1 1	
Transporter 2 Printed Name Discrepancy Indication Space			^				
Stolle			^		ed in discrepancy		



Generator Name: M + M	Research		Site Name (.041712	
Address:			Address:	2829 Was	dland Bi	der Hwy
City:	State:	Zip:	City: Bra	dford TWP	State: PC	Zip: 16881
Phone:	Contact:		Phone		Contact:	
Transporter 1 Company Name: Transporter 2 Company Name:	Water Depo	t, Inc. Sub	Pur surface Tech	chase Order No:	24663	
Designated Facility Name: Wate	er Depot, Inc.		Other:			
	Avondale Rd.		7.002			
City: New Windsor	State: MD	Zip: 21776				
TO THE OWNER OF THE OWNER	State: MD	23p. 21110	-			
Phone: 410-857-9670				La Contraction of the Contractio		
Application of the Control of the Co	Control of the Contro	nipping Nam		The state of the s		
Non-hazardous/Non-regulated Material:				-hazardous/Non-regulated N	A PARTIE AND A PAR	Gallons:
Petroleum-Contaminated Water	+	302	Combustible Liquids, N.O.S., (fuel oil & water for recycle) 3, NA 1993, PGIII		r for recycling),	
Petroleum-Contaminated Sludge			Combustible Liquids, N.O.S., (gasoline & water for rec 3, NA 1993, PGIII		ter for recycling),	
Oil for Recycling Oil & Water for Recycling				for Recycling		
Other:		Conta	The second second	Quantity	Volume/	Units
		No Ty	урв			
Other:	- 1	Conta	iners	Quantity	Volume/	Units
		No Ty	уре			
Special handling instruction Generator/Shipper Certification St As the generator or shipper, I hereby certify t tembined or blended in any amount with any fechnologies, inc. harmless for any damages	tatement that this material is proper other material defined a	rly classified and doss n a hazerdous wasts unde	r applicable law. Ge	nerator/Shipper agrees to inde	ne beet of my knowled mnify and hold Water	ige II has not been mi Depot, inc. or Subsuri
Generator Authorized Agent Prin	ited Name		X Signatu	all all	Date	4 /15/
* Justin Bushy			W Signald	27/10	1 Date	4 /2/
Transporter 1 Printed Name (en croy	4	1	Joshu Mor	9	
Transporter 1 Printed Name (en Croy	4	X Signatu	John Voy	Date	11
Transporter 1 Printed Name Stephic Transporter 2 Printed Name Discrepancy Indication Space		4	^			11
Transporter 1 Printed Name Stephe			^			



Generator Name: Mrt Res				(if different): Gib	5			
Address:			Address:	2829 No	ed fauld	Asilan Havy		
Gily:	State	Zip:	City: Br	adsord Twp	State: Pg	ZID: 2007		
Phone:	Contact:	7	Phone		Contact:			
Transporter 1 Company Name:	Water Depot,	Inc. 🗆			663			
Transporter 2 Company Name:					_			
Designated Facility Name: Water De	pot, Inc.		Other:					
Address: 1301 Avo	ndale Rd.							
City: New Windsor	State: MD	Zip: 2177	6					
Phone: 410-857-9670								
	Shi	ipping Na	ame & Desc	ription				
Non-hazardôue/Non-regulated Material:				The second secon	ardous/Non-regulated Material:			
Petroleum-Contaminated Water	IASP		Combustible	Liquide, N.O.S., (fuel oil & water	for recycling),			
Petroleum-Contaminated Sludge			3, NA 1993, I	Liquids, N.O.S., (gasoline & wat	er for recycling)			
Oil for Recycling			3, NA 1993,		a to tooyon ay,			
Oil & Water for Recycling			Glycol & Wat	er for Recycling	Town you			
Other:	-	C	ontainers	Quantity	Volume/U	Jnits		
		No	Туре		Volume/U	telle		
Other	-	No	Type	Quantity	Volumen	,310,100,91110		
Special handling instructions or a Generator/Shipper Certification Statemann As the generator or shipper, I hereby certify that this combined or blanded in any amount with any other re	ent		ces not contain Polych	iorinated Biphanyls (PGBs). To the	se best of my knowled	ge It has not been mixe Denot. Inc. or Subsurfa		
Technologies, Inc. harmless for any damages arising	from or in any way	relating to a bre	X Signal	otatomont.	Date	5 3 /		
Transporter 1 Printed Name		Aly	X Signat	Sighen (but	Date	5 B 1:		
Transporter 2 Printed Name		/	X Signat	ure /	Date	11		
Discrepancy Indication Space								
Designated Facility Owner or Operator:	Certification of		erials covered by otance Signature	the manifest except as not	ed In discrepancy Da			
			station relations		11.700	1 1 13		



Generator Name: M+ R	esearch		Site Name (of different): Gio	Site Name (If different): Giols				
Address:			Address: 2829 wood logath Biller they			er there			
City:	State:	Zip:	City: Braich	City: Brackford Twp		Zip; Jag			
Phone:	Contact		Phone		Contact:				
Transporter 1 Company Name:	Water Depot,	Inc. Sub		chase Order No: 24	463				
Fransporter 2 Company Name:	Denni Inc		Othor						
Designated Facility Name: Wat	O MANUFACTURE VIOLENTIAL PROPERTY OF THE PROPE		Other:						
120	1 Avondale Rd.	7 - 27-363 F	4						
City: New Windsor	State: MD	Zip: 21776							
Phone: 410-857-9670									
	Sh	ipping Nam	e & Descr	iption					
Non-hazardous/Non-regulate	d Material:	Gallons:	Nor	Non-hazardous/Non-regulated Material:		Gallons:			
etroleum-Contaminated Water		3/9		Combustible Liquids, N.O.S., (fuel oil & water for recycling), 3, NA 1993, PGIII					
etroleum-Contaminated Sludge		1		nbustible Liquids, N.O.S., (gasoline & water for recycling),					
bit for Recycling			3, NA 1993, P	3111					
il & Water for Recycling			Parent and	for Recycling	100	E. N.			
Diher:	-	Conta	17/10	Quantity	Volume/U	Jnits			
			ype	Quantity	Volume/U	loits			
Other:		Containers No Type		Quantity	Volumen	Jimo			
Special handling instruction Generator/Shipper Certification S	Statement			The state of the s	and all markets and the second	tee Is had not been mit			
	sy other material defined as	hazardous waste unde	r applicable law. Ge	tatement.	mnity and hold Water Date	Depot me ar access			
combined or blanded in any amount with an echnologies, inc. harmless for any damage	nted Name		W Signatu	re 1, 1 (1)	A POLICE				
combined or blended in any amount with an	nted Name		X Signatu	cur hy	1	5 154			
As the generator or shipper, I hereby certify combined or blended in any amount with an fechnologies, inc. harmless for any damage. Generator Authorized Agent Pri	BENE	,	X Signatu	MN VIV	Date	5 ksk			
Generator Authorized Agent Pri	BENE	,	1 a	MN VIV	n	5 list			
Combined or blanded in any amount with an fechnologies, inc. harmless for any demagn of the combined Agent Princed Agent Princed Name Transporter 1 Printed Name Transporter 2 Printed Name Discrepancy Indication Space	n Beny	,	X Signatu X Signatu	Stelle Cur	Date Date	5 1/51/ 5 1/61/			
Combined or blended in any amount with an fechnologies, inc. harmless for any demagn of the combined Agent Princed Agent Princed Name Transporter 1 Printed Name Transporter 2 Printed Name	n Beny	receipt of materia	X Signatu X Signatu	Stelle Cur	Date Date	5 K5 K			



Generator Name: Mf	lescard			(if different): Gro!	5 Was	odland
Address:			Address:	2829 NOO	dland Bo	ler Hwy
City:	State:	Zip:	City: Bro	drord Twi	State: A	16881
Phone:	Contact:		Phone		Contact:	
The state of the s	Water Depo	t, Inc. Sub		nologies, Inc.	14643	
Transporter 2 Company Name:			- Street			
Designated Facility Name: Wate	er Depot, Inc.		Other:			
Address: 1301	Avondale Rd.					
City: New Windsor	State: MD	Zip: 21776				
Phone: 410-857-9670						
	SI	nipping Nam	e & Desci	ription		
Non-hazardous/Non-regulated	Gallons:		n-hazardous/Non-regulated N	Naterial:	Gallons:	
etroleum-Contaminated Water		165	Combustible Liquide, N O S., (fuel oil & water for recycling), 3. NA 1993, PGIII			
Petroleum-Contaminated Sludge			_ MC00-70-8	Liquids, N O S , (gasoline & wat	ter for recycling).	-
Oil for Recycling			3, NA 1983, F	PGIII	in for facyoning,	
Dil & Water, for Recycling			Glycol & Wall	ar for Recycling	70.00	
Other:		Conta	iners	Quantity	Volume	Units
		100	уре		Volume	Links
Other.		No T	ype	Quantity	Volume	Units
Special handling instructions Generator/Shipper Certification St		nformation				
As the generator or shipper, I hereby certify the combined or blended in any amount with any fechnologies, inc. hermiese for any damages						Supplemental
Generator Authorized Agent Print	led Name Hasky		X Signal	my War	Date	6 101/2
Transporter 1 Printed Nafile	contr	4	X Signal	Efe list	Date	6 28/1
Transporter 2 Printed Name		1	X Signy	ure	Date	1.1
Discrepancy Indication Space						
Designated Facility Owner or Ope	rator: Certification	of receipt of materia	is covered by t	he manifest except as not		
Printed Name A		Acceptan	Signature		D	ate / 1 - 1 0



Generator Name:	SERECH	1011		(if different);	-		
Address: 2879 Woudows Ra		HWY	Address:				
City: Washing	Stappa	Zip:	City		State:	Zip:	
Phone:	Contact:		Phone		Contact:		
Transporter 1 Company Name: Transporter 2 Company Name:		t, Inc §	Pu Subsurface Tech	nologies, Inc.	7662		
Designated Facility Name: Water I	Depot, Inc.		Other				
Address: 1301 A	vondale Rd.						
City: New Windsor	Zip: 21776	3					
Phone: 410-857-9670							
The state of the s	Sh	ipping Na	me & Desci	ription			
Non-hazardous/Non-regulated Ma	Non-hazardous/Non-regulated Material:			Non-hazardous/Non-regulated Material:		Gallons:	
Petroleum-Contaminated Water		165		Combustible Liquids, N.O.S., (fuel oil & water for recycling), 3, NA 1993, PGIII			
Petroleum-Contaminaled Sludge				Liquids, N.O.S., (gasoline & w	ater for recycling).		
Dil for Recycling			3. NA 1993, F		and the same of th		
Oil & Water for Recycling			Glycol & Wat	er for Recycling			
Other:		Co	ontainers	Quantity	Volume/U	nds	
		No	Туре		Volume/U	nile	
Other			ontainers			Wallet De College	
Special handling instructions of	or additional is	No	Туре				
special nandling instructions of	additional i						
Generator/Shipper Certification State	ement						
As the generator or shipper, I hereby certify that combined or blended in any amount with any off Technologies, inc. harmless for any damages ari	this material is prope				the best of my knowled emnify and hold Water I	ge it has not been min Depot, Inc. or Subsurf	
The second secon	i Name		X Signat	alfell.	Date	8 27	
Generator Authorized Agent Printed			W Skignat	uren 8 x	Date	श्राप्त	
Generator Authorized Agent Printed Sa(b) CLARA Transporter 1 Printed Name	17.30		X	MX			
Generator Authorized Agent Printed Sa(b) CLARA Transporter 1 Printed Name	ett		X Signat	ure	Date	1.1	
Generator Authorized Agent Printed SACOD CLARA Transporter 1 Printed Name	ett		V.	ure	Date	11	
Generator Authorized Agent Printed JACOD CLARA Transporter 1 Printed Name Transporter 2 Printed Name		of receipt of mat	X Signat				





WELL NO .: \$B-1/MW-1

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: AUGER REFUSAL-3.5'/TERMINATED-24' .

SATURATED ZONE: 14' BGS.

WEATHER: 20'S/SUNNY

LOGGED BY: JACOB CLARA

DRILLING METHOD: DIRECT PUSH/HSA/AIR ROTARY

OPERATOR: DREW SNYDER

BOREHOLE COMPLETION: SOIL BORING/MW

DATE: 3/9 & I3/2018 BOREHOLE DIAMETER: 2.25"/6.25"/3.75"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONS DETAILS	TRUCTION
		0 0 0 0	0 - 0.5' - CONCRETE. 0.5 - 3.5' - CLAY (CL): GREYISH-ORANGE; HARD; COMPACTED; LOW PLASTICITY; LOW MOISTURE; NO ODOR; AUGER REFUSAL AT 3.5' BGS. 3.5 - 4' - CLAY (CL): GREYISH-BLUE - ORANGE;			-CONCRETE 0 - I'
=	SB-I/MW-I (5°)	0	SOFTER; LOW PLASTICITY; LOW MOISTURE. 4 - 5' - CLAY (CL): BLUE - ORANGE - GREY; HARD; LOW PLASTICITY; LOW MOISTURE; TRANSITIONS TO SANDY SHALE BEDROCK. 5 - 6' - SHALE: SANDY SHALE FRAGMENTS; HARD MATERIAL; LOTS OF DUST.		984 - 988	1 - 8'
			6 - 6.5' - SHALE: SOFTER BROWN MATERIAL. 6.5 - 7' - SHALE: SANDY SHALE FRAGMENTS; HARD MATERIAL; LOTS OF DUST. 7 - 7.5' - FRACTURE/VOID - LITTLE HAMMERING/NO DUST. 7.5 - 9' - SHALE: SANDY SHALE FRAGMENTS; HARD MATERIAL; LOTS OF DUST. 9 - 9.2' - VOID/FRACTURE - NO HAMMERING; SOFT;	55558		PVC RISER DIA 2" 0 - IO'
			BROWN CUTTINGS; NO DUST. 9.2 - 10' - HARD MATERIAL. 10 - 10.2' - VOID/FRACTURE - NO HAMMERING; SOFT; BROWN CUTTINGS; NO DUST. 10.2 - 10.4' - SHALE: HARD SANDY SHALE. 10.4 - 10.6' - VOID/FRACTURE. 10.6 - 14' - SHALE: SANDY SHALE CUTTINGS;			-WELL SCREED DIA 2" SLOT 0.020 10 - 24' FILTER SAN 8 - 24'
5			HARD MATERIAL; SATURATED AT 14' BGS. 14 - 15' - SHALE: SHALE CUTTINGS; HARD MATERIAL; DUSTY. 15 - 17' - SHALE: SHALE CUTTINGS - HARDER MATERIAL; LARGE AMOUNT OF DUST. 17 - 17.2' - SHALE: SHALE CUTTINGS - HARDER MATERIAL; LARGE AMOUNT OF DUST. 17.2 - 19' - SHALE: SHALE CUTTINGS - HARDER			
			MATERIAL; LOTS OF DUST. 19 - 21' - SHALE: SHALE CUTTINGS; LOW DUST. 21 - 24.5' - SHALE: SHALE CUTTINGS; MODERATE DUST. 24.5' - TERMINATED AT 24.5' BGS.			
5 —			Jacob B. Spr 5-2-18			



WELL NO .: SB-2/MW-2

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: REFUSAL-I3'/TERMINATED-36' BGS.

SATURATED ZONE: 28 - 36' BGS.

WEATHER: 20'S/WINDY LOGGED BY: ADAM KOVAC

DRILLING METHOD: DIRECT PUSH/AIR ROTARY

OPERATOR: DREW SNYDER

BOREHOLE COMPLETION: SOIL BORING/MW

DATE: 3/6/2018

100	EVATION	:	BOREHOLE DIAMETE			
DEPTH	SAMPLE NO.	PID (PPH)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONST DETAILS	RUCTION
					W777	
			0 - I' - ASPHALT.			O - I'
-			I - I3' - SILTY CLAY (CL-ML): BROWN/ORANGE/GREY; MOTTLED; LOW PLASTICITY; MIXED WITH SHALE FRAGMENTS UP TO COBBLES; SOIL BORING AND AUGER REFUSAL AT I3' BGS,			0-1
0 =					•	-BENTONITE - 19'
-	1		13 - 17' - SHALE: BROWN; WEATHERED; VERY	anamaa		
5 _			SOFT; DRY,			
-	1	1	17 - 22' - SHALE: BROWN COMPETENT SHALE BEDROCK.			
1			BEDROCK.			
20 —						PVC RISER DIA 2" 0 - 21'
-	-	1 1	22 - 22.75' - BITUMINOUS COAL.	1		
Ī			22.75 - 25' - SANDSTONE: TAN; RELATIVELY SOFT; EXTREMELY DUSTY.			
25			25 - 27' - SHALE: BROWN AND TAN.			-FILTER SAND 19 - 36'
-	7		27 - 28' - SOFT ZONE - LOST DUST; MADE WATER.			
-			28 - 36' - BROWN AND TAN INTERBEDDED SHALE AND SILTSTONE; BEDS ABOUT 6" APART.			-WELL SCREE DIA 2" SLOT 0.010 21 - 36'
30 - -						
35 -						



WELL NO .: SB-2/MW-2

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: REFUSAL-I3'/TERMINATED-36' BGS.

SATURATED ZONE: 28 - 36' BGS.

WEATHER: 20'S/WINDY LOGGED BY: ADAM KOVAC

DRILLING METHOD: DIRECT PUSH/AIR ROTARY

OPERATOR: DREW SNYDER

BOREHOLE COMPLETION: SOIL BORING/MW

DATE: 3/6/2018 BOREHOLE DIAMETER: 6.25"

10	AMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAP THE	WELL CONSTRUCTION
s	APIFLE NO.	Law Arriva	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
_			711 7501001750 17 7/1 000		
			36' - TERMINATED AT 36' BGS.		
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_					1 1
					1 1
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WELL NO .:

SB-3/MW-3

PROJECT No.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: AUGER REFUSAL-7'/TERMINATED-30'.

SATURATED ZONE: N/A

WEATHER: 20'S/CLOUDY/SUNNY

LOGGED BY: JACOB CLARA

DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY

OPERATOR: JIM SPADE

BOREHOLE COMPLETION: SOIL BORING/MW

DATE: 3/14/2018

BOREHOLE DIAMETER: 2 25"/6 25"/3 75"

			BOREHOLE DIAMETE		
SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	LOG	DETAILS
)	5AMPLE NO. (9')	0 0 0 0 0 0 0.3 3.4 3.7	D - 0.5' - CONCRETE. 0.5 - 2' - SILTY CLAY (CL-ML): BROWN; MIXED WITH FILL; NO ODOR. 2 - 5' - SILTY CLAY (CL-ML): BROWN; MIXED WITH SANDSTONE AND SHALE FRAGMENTS; NO ODOR. 5 - 6.5' - SILTY CLAY (CL-ML): GREY- BEIEGE; MIXED WITH SANDSTONE AND SHALE FRAGMENTS; NO ODOR. 1 - 6.5 - 7.5' - SILTY CLAY (CL-ML): TRANSITIONS TO RED - ORANGE SILTY CLAY; AUGER REFUSAL AT 7' BGS; NO ODOR. 7.5 - 8.5 - SILTY CLAY (CL-ML): TRANSITIONS TO BEIGE AND GREY IN COLOR; MIXED WITH SHALE FRAGMENTS; NO ODOR. 8.5 - 10' - SILTY CLAY (CL-ML): REDDISH-BEIGE	GRAPHIC	WELL CONSTRUCTION
5			AND ORANGE; MOIST; DIRECT PUSH REFUSAL AT 10' BGS; NO ODOR. 10 - II' - SHALE: YELLOW SANDY SHALE; FAIRLY HARD; DUSTY; NO ODOR. II - II.4' - FRACTURE/VOID - NO HAMMERING; BROWN CUTTINGS. II.4 - II.6' - SHALE: YELLOW; SANDY; LOTS OF DUST. II.6 - I2' - FRACTURE/VOID - BROWN CUTTINGS. I2 - I3' - SHALE: YELLOW; SANDY. I3 - I3.5' - FRACTURE/VOID - BROWN CUTTINGS. I3.5 - I7' - SHALE: BROWN - YELLOW; SOFTER; SANDY; LITTLE DUST. I7 - 20' - SHALE: BROWN CUTTINGS; SOFTER MATERIAL; LOTS OF DUST. 20 - 25' - SHALE: GREYISH-BROWN; SOFT		WELL SCREEDIA 2" SLOT 0.020 10 - 30'
50 -			MATERIAL; DUSTY. 25 - 27' - COAL: BLACK COAL CUTTINGS. 27 - 30' - SHALE: GREY SHALE CUTTINGS; SOFT MATERIAL; LOW DUST. 30' - TERMINATED AT 30' BGS - SHALE.		



WELL NO .: SB-4 / MW-4

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: REFUSAL - 6.5'/TERMINATED - 25.5' BGS. BOREHOLE COMPLETION: SOIL BORING/MW SATURATED ZONE: N/A DATE: 3/7/2018

WEATHER: SNOW/20'S

LOGGED BY: BEN AZAR

DRILLING METHOD: DIRECT PUSH/AUGER/AIR ROTARY

OPERATOR: DREW SNYDER

	EVATION		BOREHOLE DIAMETE		
DEPTH	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
5 -	SB-4 / MW-4 (3.5°)	0 0 0 0 0 0 0 0 0	0 - I.25' - ASPHALT/SUB-BASE. I.25 - 2' - SILTY CLAY (CL-ML): GREY/TAN; MIXED WITH COARSE SHALE GRAVEL; HIGH MOISTURE; MEDIUM PLASTICITY. 2 - 3.5' - SHALE: FLATLY STRATIFIED SILTSTONE COBBLES; MIXED WITH GREY/TAN SILTY CLAY; MEDIUM MOISTURE; MEDIUM PLASTICITY. 3.5 - 5' - SILTY CLAY (CL-ML): LOW TO MEDIUM MOISTURE; MOTTLED. 5 - 6.5' - SHALE: SILTSTONE BEDROCK; REFUSAL AT 6.5' BGS. 6.5 - 8' - SHALE: TAN; SOFT; WEATHERED. 8 - 10' - VOID/FRACTURE - NO RECOVERY. 10 - 13' - SHALE: TAN; SOFT; COMPETENT ROCK AT II' BGS - ODORS PRESENT. 13 - 14' - SHALE: CUTTINGS CHANGE TO GREY/BLACK. 14 - 17' - SHALE: ODORS PRESENT; MOIST - SMALL AMOUNT OF WATER; ODOR TRANSITIONS TO STRONG ODORS. 17 - 25.5' - SHALE: BLACK; APPROXIMATELY 0.75 GALLONS/MINUTE OF WATER; FRACTURES AT 22.5', 23.5' AND 24' BGS.		PVC RISER DIA 2" 0 - 16' FILTER SANI 15 - 25' WELL SCREE DIA 2" SLOT 0.010 16 - 25'
30			25.5' - TERMINATED AT 25.5' BGS.		



WELL NO .: SB-5/MW-5

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL WEATHER: SUN/80'S LOGGED BY: ALLIE BERRY DRILLING METHOD: AIR ROTARY

DEPTI			LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONST DETAILS	RUCTION
-	SB-5/MW-5 (2')	1.4 1.4 0.7 1.2 0.8	0 - 0.5' - CONCRETE/ASPHALT. 0.5 - 1' - CLAY (CL): DARK BROWN; MEDIUM MOISTURE; MEDIUM PLASTICITY; MIXED WITH SANDY SHALE FRAGMENTS. 1 - 3' - SILTY CLAY (CL-ML): BROWNISH-ORANGE; LOW PLASTICITY AND MOISTURE; MIXED WITH SHALE FRAGMENTS.			- CONCRETE 0 - I'
		0.0 0.0 0.0 0.0 0.0	3 - 4' - SILTY CLAY (CL-ML): BROWNISH-RED; LOW PLASTICITY AND MOISTURE; MIXED WITH SHALE FRAGMENTS. 4 - 5' - SILTY CLAY (CL-ML): DARK BROWN; LOW PLASTICITY/LOW MOISTURE; MIXED WITH LARGE PIECES OF SANDY SHALE; AUGER REFUSAL AT 5' BGS. 5 - 6' - CLAY (CL): BROWNISH-ORANGE; LOW PLASTICITY AND MOISTURE; MIXED WITH SHALE FRAGMENTS. 6 - 9' - SILTY CLAY (CL-ML): BROWN; LOW PLASTICITY AND MOISTURE. 9 - 10.5' - COAL: MIXED WITH SOME RED CLAY. 10.5 - II' - CLAY (CL): ORANGISH-GREY; LOW MOISTURE AND PLASTICITY; TRACE AMOUNTS OF COAL 11 - 12' - CLAY (CL): GREENISH-ORANGE; LOW			-BENTONITE 1 - 24*
		5,	MOISTURE AND PLASTICITY; MIXED WITH SHALE FRAGMENTS. IZ - I3' - SHALE: MEDIUM GREY; FINE GRAINED; MIXED WITH ORANGISH-RED CLAY; SOIL BORING REFUSAL AT I3' BGS. I3 - I7' - SHALE: DARK GREY; HARD MATERIAL; LOTS OF DUST; SOME TRAICES OF COAL - TRANSITIONS TO BEDROCK. I7 - 20' - SHALE: LIGHT GREY; SOFT MATERIAL; LOTS OF DUST. 20 - 24' - COAL: BLACK CUTTINGS; LOTS OF DUST.		•	-PVC RISER DIA 2" 0 - 25'
) -			24 - 33.3' - SHALE: LIGHT GREY SHALE CUTTINGS; SOFT MATERIAL; LOTS OF DUST.			-FILTER SAM 24 - 40'
5 -	=		33.3 - 33.5' - FRACTURE - CUTTINGS WERE MOIST; NO DUST. 33.5 - 37' - SHALE: LIGHT GREY SHALE			DIA 2" SLOT 0.010 25 - 40'



WELL NO .:

SB-5/MW-5

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE

WEATHER: SUN/80'S LOGGED BY: ALLIE BERRY

DEPTH SCALE	SAMPLE NO.		BOREHOLE DIAMS	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
SCALE				1.00	NETWING.
			CUTTINGS; SOME PIECES OF SANDSTONE CUTTINGS; SOFT MATERIAL; LITTLE DUST.		
		L G	37 - 37.5' - FRACTURE/VOID.		
_	1		37.5 - 40' 0 SHALE: LIGHT GREY SHALE		
_	1		CUTTINGS; MIXED WITH SOME SANDSTONE CUTTINGS.		
_			40' - TERMINATED AT 40' BGS,		
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-				1 1	
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5					
				1 1	
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o —	-				
_	1				
-				1 1	
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			Allen Basa		
_			2/20/18		
_			1		
0 —	-		7/20/10		
-		1	4/10/10		



WELL NO .:

SB-12/MW-6

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE

CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: REFUSAL AT 6.5' / TERMINATED AT 40' BGBOREHOLE COMPLETION: SOIL BORING/MW

SATURATED ZONE: N/A

WEATHER: SUN/80'S LOGGED BY: ALLIE BERRY DRILLING METHOD: AIR ROTARY

OPERATOR: DREW SNYDER

DATE: 7/13/2018

	EVATION:		BOREHOLE DIAMETE	The second secon	WELL CONSTRUCTION
DEPTH	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0 -	SB-12/MW-6 (9°)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 - 0.5' - GRAVEL (GW): GRAVEL - MIXED WITH TOPSOIL AND EARTHY MATERIAL. 0.5 - 1' - SILTY CLAY (CL-ML): ORANGISH-GREY; MEDIUM MOISTURE; HIGH PLASTICITY. 1 - 2' - SILTY CLAY (CL-ML): ORANGISH-GREY; LOW MOISTURE; MEDIUM PLASTICITY; MIXED WITH SUBANGULAR SANDY SHALE FRAGMENTS. 2 - 3' - SILTY CLAY (CL-ML): DARK BROWN/ORANGE; MEDIUM MOISTURE AND PLASTICITY; MIXED WITH SMALL SHALE FRAGMENTS. 3 - 4' - SILTY CLAY (CL-ML): ORANGISH-GREY; MEDIUM MOISTURE; HIGH PLASTICITY. 4 - 5' - SILTY CLAY (CL-ML): ORANGISH-GREY; MIXED WITH DARK BROWN ORGANIC MATERIAL (COAL SEAM); MEDIUM MOISTURE; HIGH PLASTICITY. 5 - 7' - SILTY CLAY (CL-ML): ORANGISH-RED; MEDIUM MOISTURE AND PLASTICITY; AUGER		→ BENTONITE 6" - 24'
20 -			REFUSAL AT 6.5' BGS; 7 - 9' - SILTY CLAY (CL-ML): ORANGISH-GREY; LOW MOISTURE AND PLASTICITY; MIXED WITH SHALE FRAGMENTS; SOIL BORING REFUSAL AT 9' BGS. 9 - II' - SHALE: LIGHT GREY SHALE CUTTINGS; MODERATE DUST; HIGHLY WEATHERED. II - I6 - SHALE: MEDIUM GREY SHALE CUTTINGS; MODERATELY DUST - LITTLE HAMMERING. I6 - I7.5' - COAL: MODERATE DUST; SANDY, I7.5 - 30' - SHALE: LIGHT GREY SANDY SHALE CUTTINGS; MODERATE DUST; HIGHLY WEATHERED: LITTLE HAMMERING.	4	PVC RISER DIA 2" 0 - 25'
30 -			30 - 40' - SHALE: MEDIUM GREY SHALE CUTTINGS; WEATHERED; NO DUST; WATER AT 33.5' BGS.		WELL SCRE DIA 2" SLOT 0.010 25 - 40"



WELL NO .: SB-12/MW-6

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: REFUSAL AT 6.5' / TERMINATED AT 40' BGBOREHOLE COMPLETION: SOIL BORING/MW

SATURATED ZONE: N/A TOC ELEVATION:

WEATHER: SUN/80'S

LOGGED BY: ALLIE BERRY DRILLING METHOD: AIR ROTARY

OPERATOR: DREW SNYDER

DATE: 7/13/2018 BOREHOLE DIAMETER: 4.25"

CALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS	
-			40' - TERMINATED AT 40' BGS.			
			allu Mm 7/20/18			



MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO .:

SB-6

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA DEPTH: REFUSAL AT 15' BGS. SATURATED ZONE: N/A

WEATHER: 30'S/CLOUDY LOGGED BY: JACOB CLARA DRILLING METHOD: DIRECT PUSH

OPERATOR: JIM SPADE

BOREHOLE COMPLETION: SOIL BORING

DATE: 3/12/2018

ROBEHOLE DIAMETER: 2.25"

-		BOREHOLE DIAMETER: 2.25"		
DEPTH SCALE	AMPLE NO. PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHI LOG	
SCALE	0 0 0 0 0 0 0 0 0 0 0 1.2 1.4 SB-6 (14.5')	0 - 0.5' - CONCRETE: MIXED WITH GRASS/SOD. 0.5 - 1.5' - SILTY CLAY (CL-ML): GREY - ORANGE; MIXED WITH FILL; NO ODOR. 1.5 - 5' - SILTY CLAY (CL-ML): GREY - BILLE - ORANGE; MIXED WITH SHALE FRAGMENTS; MEDIUM PLASTICITY; MEDIUM MOISTURE; NO ODOR. 3 - 5' - GREY - BILLE - ORANGE; MIXED WITH SUBANGULAR GRAVEL AND SHALE FRAGMENTS; NO ODOR. 5 - 6' - SILTY CLAY (CL-ML): YELLOW - GREY; LOW PLASTICITY; MEDIUM MOISTURE; NO ODOR. 6 - 7' - SILTY CLAY (CL-ML): YELLOW - GREY; LOW PLASTICITY; MEDIUM MOISTURE; NO ODOR. 7 - 10' - SILTY CLAY (CL-ML): YELLOW - GREY; LARGE FRAGMENTS; NO ODOR. 10 - 13' - SILTY CLAY (CL-ML): GREYISH ORANGE; MIXED WITH SUBANGULAR GRAVEL/SHALE; NO ODOR. 11 - 15' - SILTY CLAY (CL-ML): GREYISH-BEIGE; MIXED WITH SUBANGULAR GRAVEL AND SHALE FRAGMENTS; NO ODOR. 15 - 15' - SILTY CLAY (CL-ML): GREYISH-BEIGE; MIXED WITH SUBANGULAR GRAVEL AND SHALE FRAGMENTS; NO ODOR. 15 - REFUSAL AT 15' BGS - SILTY CLAY.	LOG	



MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO .:

SB-7

PROJECT NO.: 4923.18.01
PROJECT NAME: SPILL RESPONSE
CLIENT: WOODLAND FOOD AND FUEL
LOCATION: WOODLAND, PA
DEPTH: REFUSAL AT 20' BGS.

SATURATED ZONE: N/A

WEATHER: 30'S/CLOUDY LOGGED BY: JACOB CLARA DRILLING METHOD: DIRECT PUSH

OPERATOR: DREW SNYDER

BOREHOLE COMPLETION: SOIL BORING

DATE: 3/8/2018

JA I OIL	1	1111111	BOREHOLE DIAMETER: 2.25"		
DEPTH	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	LOG	
		0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 - 0.5' - CONCRETE. 0.5 - 1.5' - GRAVELLY CLAY (CLG): BROWN CLAY WITH FILL; MIXED WITH LARGE BROWN SHALE AND GRAVEL COBBLES. 1.5 - 3' - SILTY CLAY (CL-ML): BROWN; SHALE FRAGMENTS AND SUBANGULAR GRAVEL FRAGMENTS PRESENT. 3 - 4' - SILTY CLAY (CL-ML): BROWN; SHALE FRAGMENTS PRESENT. 4 - 5' - SILTY CLAY (CL-ML): BROWN - ORANGE; MOTTLED; SUBANGULAR GRAVEL		
			FRAGMENTS PRESENT; MEDIUM PLASTICITY; MEDIUM MOISTURE. 5 - 7' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH SLUFF; LARGE GRAVEL COBBLES PRESENT. 7 - 8.5' - SILTY CLAY (CL-ML): BROWN; MEDIUM PLASTICITY; MEDIUM MOISTURE. 8.5 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; LOW PLASTICITY; LOW MOISTURE. 10 - 12' - SILTY CLAY (CL-ML): BEIGE - BROWN; MEDIUM PLASTICITY; MEDIUM MOISTURE.		
	37.5 56.7 109.5 SB-7 (I5.0') 74.5 24.0 SB-7 (I8.5') 75.6	I2 - I4' - SILTY CLAY (CL-ML): BEIGE; SHALE FRAGMENTS PRESENT; ODOR FROM I3 TO I4' BGS. I4 - I5' - SILTY CLAY (CL-ML): ORANGE - BEIGE; SHALE FRAGMENTS PRESENT; LOW PLASTICITY; LOW MOISTURE; ODOR FROM I4 TO I5' BGS. I5 - I7' - SILTY CLAY (CL-ML): BROWN; SHALE FRAGMENTS PRESENT; LOW PLASTICITY; LOW MOISTURE. I7 - I9' - SILTY CLAY (CL-ML): RED - ORANGE - BROWN; SHALE FRAGMENTS PRESENT; LOW PLASTICITY.			
		75.6	19 - 20' - SHALE: WEATHERED SHALE WITH SMALL AMOUNTS OF RED - ORANGE SILTY CLAY . 20' - REFUSAL AT 20' BGS - SHALE.	3333333	
5			1		
			Jaw 184 n 4-17-18		



BORING NO .:

SB-8

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA DEPTH: REFUSAL AT 16.5' BGS. SATURATED ZONE: N/A

WEATHER: 30'S/CLOUDY LOGGED BY: JACOB CLARA DRILLING METHOD: DIRECT PUSH OPERATOR: DREW SNYDER

BOREHOLE COMPLETION: SOIL BORING

DATE: 3/8/2018 BOREHOLE DIAMETER: 2.25"

SB-8 (9.5') SB-8 (12')	PID (PPM) 0 0 0 0 0 0 0 0.1 0.2 13.7 27.1 12.1 211.5 112.4 459	D - 0.5' - CONCRETE. 0.5 - 1.5' - CLAY (CL): BROWN; MIXED WITH FILL. 1.5 - 3.5' - SILTY CLAY (CL-ML): BROWN; MIXED WITH SHALE FRAGMENTS; NO ODOR. 3.5 - 5' - SILTY CLAY (CL-ML): BROWN; MIXED WITH SHALE FRAGMENTS; MEDIUM PLASTICITY; MEDIUM MOISTURE. 5 - 6' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH SHALE AND GRAVEL FRAGMENTS. 6 - 6.5' - SILTY CLAY (CL-ML): ORANGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; MEDIUM MOISTURE. 6.5 - 8' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED. 12.5' - REFUSAL AT 12.5' BGS - BLACK SHALE.	GRAPH
(9.5') SB-8	0 0 0 0 0,1 0.2 13.7 27.1 12.1 211.5	0.5 - I.5' - CLAY (CL): BROWN; MIXED WITH FILL. I.5 - 3.5' - SILTY CLAY (CL-ML): BROWN; MIXED WITH SHALE FRAGMENTS; NO ODOR, 3.5 - 5' - SILTY CLAY (CL-ML): BROWN; MIXED WITH SHALE FRAGMENTS; MEDIUM PLASTICITY; MEDIUM MOISTURE. 5 - 6' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH SHALE AND GRAVEL FRAGMENTS. 6 - 6.5' - SILTY CLAY (CL-ML): ORANGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; MEDIUM MOISTURE. 6.5 - 8' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	
(9.5') SB-8	0 0 0 0 0,1 0.2 13.7 27.1 12.1 211.5	0.5 - I.5' - CLAY (CL): BROWN; MIXED WITH FILL. I.5 - 3.5' - SILTY CLAY (CL-ML): BROWN; MIXED WITH SHALE FRAGMENTS; NO ODOR, 3.5 - 5' - SILTY CLAY (CL-ML): BROWN; MIXED WITH SHALE FRAGMENTS; MEDIUM PLASTICITY; MEDIUM MOISTURE. 5 - 6' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH SHALE AND GRAVEL FRAGMENTS. 6 - 6.5' - SILTY CLAY (CL-ML): ORANGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; MEDIUM MOISTURE. 6.5 - 8' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	
(9.5') SB-8	0 0 0 0 0,1 0.2 13.7 27.1 12.1 211.5	I.5 - 3.5' - SILTY CLAY (CL-ML): BROWN; MIXED WITH SHALE FRAGMENTS; NO ODOR, 3.5 - 5' - SILTY CLAY (CL-ML): BROWN; MIXED WITH SHALE FRAGMENTS; MEDIUM PLASTICITY; MEDIUM MOISTURE. 5 - 6' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH SHALE AND GRAVEL FRAGMENTS. 6 - 6.5' - SILTY CLAY (CL-ML): ORANGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; MEDIUM MOISTURE. 6.5 - 8' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	
(9.5') SB-8	0 0 0 0,1 0.2 13.7 27.1 12.1 211.5	3.5 - 5' - SILTY CLAY (CL-ML): BROWN; MIXED WITH SHALE FRAGMENTS; MEDIUM PLASTICITY; MEDIUM MOISTURE. 5 - 6' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH SHALE AND GRAVEL FRAGMENTS. 6 - 6.5' - SILTY CLAY (CL-ML): ORANGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; MEDIUM MOISTURE. 6.5 - 8' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	
(9.5') SB-8	0 0 0,1 0.2 13.7 27.1 12.1 211.5	PLASTICITY; MEDIUM MOISTURE. 5 - 6' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH SHALE AND GRAVEL FRAGMENTS. 6 - 6.5' - SILTY CLAY (CL-ML): ORANGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; MEDIUM MOISTURE. 6.5 - 8' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	
(9.5') SB-8	0 0 0,1 0.2 13.7 27.1 12.1 211.5	PLASTICITY; MEDIUM MOISTURE. 5 - 6' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH SHALE AND GRAVEL FRAGMENTS. 6 - 6.5' - SILTY CLAY (CL-ML): ORANGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; MEDIUM MOISTURE. 6.5 - 8' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	
(9.5') SB-8	0 0,1 0,2 13.7 27.1 12.1 211.5	PLASTICITY; MEDIUM MOISTURE. 5 - 6' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH SHALE AND GRAVEL FRAGMENTS. 6 - 6.5' - SILTY CLAY (CL-ML): ORANGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; MEDIUM MOISTURE. 6.5 - 8' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	
(9.5') SB-8	0 0.1 0.2 13.7 27.1 12.1 211.5 112.4	5 - 6' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH SHALE AND GRAVEL FRAGMENTS. 6 - 6.5' - SILTY CLAY (CL-ML): ORANGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; MEDIUM MOISTURE. 6.5 - 8' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	-
(9.5') SB-8	0.1 0.2 13.7 27.1 12.1 211.5 112.4	FRAGMENTS. 6 - 6.5' - SILTY CLAY (CL-ML): ORANGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; MEDIUM MOISTURE. 6.5 - 8' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	-
(9.5') SB-8	0.1 0.2 13.7 27.1 12.1 211.5 112.4	6 - 6.5' - SILTY CLAY (CL-ML): ORANGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; MEDIUM MOISTURE. 6.5 - 8' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	-
(9.5') SB-8	0.2 13.7 27.1 12.1 211.5 112.4	PLASTICITY; MEDIUM MOISTURE. 6.5 - 8' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	
(9.5') SB-8	13.7 27.1 12.1 211.5 112.4	6.5 - 8' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY: LOW MOISTURE. 8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	
(9.5') SB-8	27.1 2.1 211.5 12.4	PLASTICITY: LOW MOISTURE. 8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	
(9.5') SB-8	27.1 2.1 211.5 12.4	8 - 10' - SILTY CLAY (CL-ML): BROWN - ORANGE; MIXED WITH LARGER SHALE AND GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	
SB-8	2.1 211.5 12.4	GRAVEL COBBLES. 10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	
	211.5 112.4	10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH SHALE FRAGMENTS; LOW PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	
	112.4	PLASTICITY; LOW MOISTURE. 12 - 12.5' - SHALE: WEATHERED.	
(12*)		12 - 12.5' - SHALE: WEATHERED.	
	459		
		12 5' - REFUSAL AT 12 5' RGS - RLACK SHALE	
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BORING NO .:

SB-9

PROJECT NO.: 4923.18.01 PROJECT NAME: SPILL RESPONSE

CLIENT: WOODLAND FOOD AND FUEL LOCATION: WOODLAND, PA DEPTH: REFUSAL AT 12' BGS. SATURATED ZONE: 7' BGS.

WEATHER: 30'S/CLOUDY LOGGED BY: JACOB CLARA DRILLING METHOD: DIRECT PUSH OPERATOR: DREW SNYDER

BOREHOLE COMPLETION: SOIL BORING

DATE: 3/8/2018

DEPTH	PART TO SERVE	The same of the sa	BOREHOLE DIAMETER: 2.25"	GRAPHI
SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	LOG
)			0 - 0.5' - CONCRETE.	mmm
-	1	0	0.5 - 1.5' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH FILL.	-10000000
0	-	0	1.5 - 3' - SILTY CLAY (CL-ML): BLUISH-BROWN; SHALE FRAGMENTS AND GRAVEL	
10-	- 1	0	PRESENT; MEDIUM PLASTICITY; MEDIUM MOISTURE.	- (3333333)
_	4	0	3 - 4' - CLAY (CL): BLUISH-BROWN; MEDIUM PLASTICITY; MEDIUM MOISTURE.	VIIIIIII
		25.4	4 - 5' - SILTY CLAY (CL-ML): ORANGE - BROWN; MIXED WITH SHALE FRAGMENTS;	
5		1. 1. 7. 1.	LOW PLASTICITY; LOW MOISTURE.	
_	SB-9	160.5	5 - 7' - SILTY SAND (SM): BEIGE; MIXED WITH SHALE GRAVEL FRAGMENTS; MEDIUM	
-	(6.5')	791.0	PLASTICITY; MEDIUM MOISTURE. 7 - 8' - SILTY CLAY (CL-ML): MIXED WITH SHALE FRAGMENTS; STAINED; STRONG	mana
-	- 1	1591	ODOR; SATURATION AT 7' BGS.	
_	1 1	359.4	8 - 10' - SILTY CLAY (CL-ML): BEIGE; POOR RECOVERY; MIXED WITH SHALE	3333333
		502.4	FRAGMENTS; LOW PLASTICITY; LOW MOISTURE.	
0		641	10 - 12' - SILTY CLAY (CL-ML): BEIGE; MIXED WITH LARGER WEATHERED SHALE	
-	SB-9	791	FRAGMENTS.	3333333
-	(11.5')	152	IN DECLICAL AT 191 DOC DI ACV CHALE	20000000
_			12' - REFUSAL AT 12' BGS - BLACK SHALE.	
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BORING NO .: SB-10

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA DEPTH: REFUSAL AT 5' BGS. SATURATED ZONE: N/A

WEATHER: SUN/80'S

LOGGED BY: ALLIE BERRY

DRILLING METHOD: DIRECT PUSH

OPERATOR: DREW SNYDER

BOREHOLE COMPLETION: SOIL BORING

DATE: 7/11/2018

BOREHOLE DIAMETER: 2"

	TILD LOI	X-X 2 XX XX Y	BOREHOLE DIAMETER: 2"	
DEPTH	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG
	SB-10 (2.0')	0.4 0.9 0.3	0 - 0.5' - CONCRETE. 0.5 - I' - SILTY CLAY (CL-ML): LIGHT ORANGE; LOW MOISTURE/LOW PLASTICITY; MIXED WITH GRAVEL SHALE. 1 - 4' - SILTY CLAY (CL-ML): LIGHT ORANGISH-BROWN; LOW PLASTICITY AND MOISTURE; MIXED WITH SANDSTONE FRAGMENTS.	
5 -	SB-10 (6.0')	8.9	4 - 4.5' - POOR RECOVERY. 4.5 - 6' - SILTY CLAY (CL-ML): ORANGISH-BROWN; MEDIUM MOISTURE AND PLASTICITY; MIXED WITH SUBANGULAR SANDSTONE FRAGMENTS. 6' - REFUSAL AT 6' BGS.	
0 =				
5 _				
20				
25 —				
30 —				
35 —				



BORING NO .:

SB-II

PROJECT NO.: 4923.18.01
PROJECT NAME: SPILL RESPONSE
CLIENT: WOODLAND FOOD AND FUEL
LOCATION: WOODLAND, PA
DEPTH: REFUSAL AT 6' BGS.
SATURATED ZONE: I' BGS.

WEATHER: SUN/80'S LOGGED BY: ALLIE BERRY DRILLING METHOD: DIRECT PUSH

OPERATOR: DREW SNYDER

BOREHOLE COMPLETION: SOIL BORING

DATE: 7/II/2018

	OINE. I DO	BOREHOLE DIAMETER: 2"	COADUIC
SCALE SAMPLE	NO. PID (PPM)	LITHOLOGY DESCRIPTION	LOG
DEPTH SAMPLE NO SAMPLE NO SB-II (2") 5 SB-II (6") 20	0.0		GRAPH LOG



WELL NO .: SB-13/MW-7

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA DEPTH: REFUSAL AT II.7' BGS.

SATURATED ZONE: N/A

WEATHER: 50'S/CLOUDY LOGGED BY: JOHN DIBERT DRILLING METHOD: DIRECT PUSH

OPERATOR: TERRA TESTING BOREHOLE COMPLETION: SOIL BORING/MW

DATE: 10/22/2018

TOC EL	EVATION		BOREHOLE DIAMETE		The second second second
DEPTH	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
				30.230.00002	SV/A SV/A-CONCRETE
		0.0 0.0 0.0 0,0 0.0	0 - 0.5' - CONCRETE. 0.5 - I' - SILTY CLAY (CL-ML): DARK BROWN/WHEAT KHAKI; CRUMBLY MATRIX; 0.5 - 2 CM PEBBLES; ANGULAR AND SORTED. I - 2' - SHALE: SLATE SHALE FILL; FLAT; BRITTLE; DARK BROWN TO BLACK ROCKS; 2 TO 9 CM PEBBLES. 2 - 7' - SILTY CLAY (CL-ML): ORANGE - DARK		0 - 0.5° ■—BENTONITE 0.5 - 5.7°
	SB-13/MW-7 (9')	9156	BROWN TO BLACK; 0.5 TO I CM PEBBLES; COMPACTED; AIR KNIFE REFUSAL. 7 - 9.5' - SILTY CLAY (CL-ML): FUSION OF GREY/BROWN/RED; VERY MOIST; STRONG ODOR; LOW RETURNS. 9.5 - II.7' - SILTY CLAY (CL-ML): LIGHT		PVC RISER DIA 2" 0 - 6.7' FILTER SAN 8.7 - 11.7 WELL SCREI DIA 2" SLOT 0.010
		652	BROWN/KHAKI; VERY BRITTLE; I TO 2 CM PEBBLES. II.7' - REFUSAL AT II.7' BGS.		6.7 - 11.7'
5 =					
0 =					
5 —					



WELL NO .: SB-14/MW-8

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA DEPTH: REFUSAL AT 19' BGS. SATURATED ZONE: N/A TOC ELEVATION:

WEATHER: 40'S/CLOUDY LOGGED BY: JOHN DIBERT DRILLING METHOD: DIRECT PUSH

OPERATOR: TERRA TESTING

BOREHOLE COMPLETION; SOIL BORING/MW

DATE: 10/27/2018

BOREHOLE DIAMETER: 2.25"

DEPTH SAMPLE NO	D. PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
	6.1 0.3 0.1 0.1 19.6 10.6	O - 0.1' - VEGETATION. 0.1 - 2.7' - SILTY CLAY (CL-ML): BROWN/MATTE BLACK; 0.5 - I CM PEBBLES; LOOSELY COMPACTED; 10+ CM BOULDERS PRESENT. 2.7 - 4' - SILTY CLAY (CL-ML): BURNT ORANGE/KHAKI/BROWN; 0.5 TO I CM PEBBLES PRESENT; COMPACT; ODOR PRESENT AT 4' BGS. 4 - 8' - SILTY CLAY (CL-ML): BLACK/DARK BROWN; MOIST; 0.5 TO I CM PEBBLES; LOOSE/COMPACTED MATRIX; WEAK TO NO ODOR. 8 - 9.5' - SILTY CLAY (CL-ML): BLACK/BROWN; STREAKED; VERY COMPACT; NO PEBBLES; LOOSE MATERIAL. 9.5 - II' - SILTY CLAY (CL-ML): BROWN/TAN; MOIST; VERY COMPACT MATRIX; I TO 2 CM PEBBLES; RANDOMLY MOIST. II - 12.5' - SILTY CLAY (CL-ML): TAN/BROWN; CRUMBLY; 0.5 TO I CM PEBBLES; LOOSELY COMPACTED; VERY DRY. 12.5 - 15.5' - SILTY CLAY (CL-ML): DARK BROWN - WITH SPOTS OF RED AND ORANGE; BLOCKY ANGULAR PIECES; SLIGHTLY MOIST. 15.5 - 19' - SILTY CLAY (CL-ML): BROWN/BLACK; INTERBEDDED; BRITTLE PIECES; VERY COMPACT; TRANSITIONS TO MULTI COLORS - BLACK - ORANGE - BROWN. 19' - REFUSAL AT 19' BGS.		



WELL NO.: SB-15/MW-4BR

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: TERMINATED AT 70.5' BGS.

SATURATED ZONE: N/A

TOC ELEVATION:

WEATHER: 30'S/CLOUDY LOGGED BY: JOHN DIBERT

DRILLING METHOD: DIRECT PUSH/AR/AUGER/AIR KNIFE

OPERATOR: TERRA TESTING

BOREHOLE COMPLETION: SOIL BORING/MW

DATE: 10/30/2018

BOREHOLE DIAMETER: 2.25" / 4.25" / 8.25"

DEPTH SCALE	NO. PID (PPM)	SAMPLE NO.	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONST DETAILS	RUCTION
) —	0.0 0.1 0.1 0.0 10.5	3-15/MW-4E (6')	0 - 0.4' - PAVEMENT. 0.4 - 2.5' - SILTY CLAY (CL-ML): BURNT ORANGE/BROWN; LOOSELY COMPACTED; 0.5 - 2 CM PEBBLES; DRY. 2.5 - 5' - SILTY CLAY (CL-ML): BLACK/BURNT ORANGE/BROWN; SLIGHTLY MORE COMPACT MATRIX; 0.5 TO 2 C, PEBBLES; DRY TO MOIST; 3' BGS - LARGE BOULDER - AIR KNIFE UTILIZED FROM 0 TO 5' BGS - AIR KNIFE REFUSAL AT 5' BGS. 5 - 5.5' - SILTY CLAY (CL-ML): LIGHT TAN/BROWN; SOFT TO MOIST TEXTURE. 1.5.5 - 6' - SILTY CLAY (CL-ML): BROWN/BLACK; 1.1 - 2 CM PEBBLES. 6 - 9' - SILTY CLAY (CL-ML): 1.2 LOOSE MATRIX; 1 - 2 CM PEBBLES. 6 - 9' - SILTY CLAY (CL-ML): 1.3 CM PIECES. 1.4 PEBBLES; AUGER UTILIZED FROM 5 TO 13' BGS - AUGER REFUSAL AT 13' BGS; AIR ROTARY UTILIZED FROM 13 TO 70.5' BGS. 1.13 - 15' - SHALE: STRONG BROWN; DRY; CRUMBLY; MIXED WITH 1 TO 2 CM SILTY CLAY PEBBLES. 1.15 - 9' - SHALE: STRONG BROWN; DRY; CRUMBLY; MIXED WITH 1 TO 2 CM SILTY CLAY PEBBLES. 1.5 - 9' - SHALE: LIGHT GREY; COAL PATCH AT 19' BGS.			-BENTONITE 0 - 0.5'



WELL NO .:

SB-15/MW-4BR

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: TERMINATED AT 70.5' BGS.

SATURATED ZONE: N/A

WEATHER: 30'S/CLOUDY LOGGED BY: JOHN DIBERT

DRILLING METHOD: DIRECT PUSH/AR/AUGER/AIR KNIFE

OPERATOR: TERRA TESTING

BOREHOLE COMPLETION: SOIL BORING/MW

DATE: 10/30/2018

DEPTH	EVATION		· · · · · · · · · · · · · · · · · · ·	GRAPHIC	WELL CONSTRUCTION
DEPTH	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
	1				
-	1 1				
-	1				
_	1				
	1				
_	1				
	1	1			
_					
-					
_					
-					
					PVC RISER
-	1				DIA 2" 0 - 55.5
-	1				
-	-				
_	6				
_					
					FILTER SAN
)					FILTER SAN 53.5 - 70.5
_	-				WELL SCRE
-					WELL SCRE DIA 2* SLOT 0.010
_					55.5 - 70.5
-					
) —	-				
-			70.5' - TERMINATED AT 70.5' BGS.		



WELL NO .:

SB-16/MW-2BR

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: TERMINATED AT 58.5' BGS.

SATURATED ZONE:

TOC ELEVATION:

WEATHER: 40'S/CLOUDY LOGGED BY: JOHN DIBERT

DRILLING METHOD: AR/AUGER/AIR KNIFE/DIRECT PUSH

OPERATOR: TERRA TESTING

BOREHOLE COMPLETION: SOIL BORING/MW

DATE: 10/29/2018

BOREHOLE DIAMETER: 2.25" / 4.25" / 8.25"

DEPTH	SAMPLE NO.	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
5 -		EQ Q1 - TEDMINIATED AT EQ Q1 DCC		PVC RISER DIA 2" 0 - 38.5' FILTER SAN 36.5 - 58.5' WELL SCREI DIA 2" SLOT 0.010 38.5 - 58.8'
		58.8' - TERMINATED AT 58.8' BGS.		



WELL NO .: SB-16/MW-2BR

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

SATURATED ZONE: TOC ELEVATION:

DEPTH: TERMINATED AT 58.5' BGS.

WEATHER: 40'S/CLOUDY LOGGED BY: JOHN DIBERT DRILLING METHOD: AR/AUGER/AIR KNIFE/DIRECT PUSH OPERATOR: TERRA TESTING BOREHOLE COMPLETION: SOIL BORING/MW

DATE: 10/29/2018 BOREHOLE DIAMETER: 2.25" / 4.25" / 8.25"

DEPTH	SAMPLE NO.		LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	SB-16/MW-2E (7')	0.0 0.0 6.6 1.9 3.6	0 - 0.5' - CONCRETE. 0.5 - Z.5' - SILTY CLAY (CL-ML): LOOSELY COMPACTED; 0.5 - 3 CM PEBBLES. 2.5 - 5' - SILTY CLAY (CL-ML): ORANGE/BURNT RED; COMPLETED; 0.5 - 3 CM PEBBLES MATRIX; AIR KNIFE UTILIZED FROM 0 TO 5' BGS. 5 - 6' - SILTY CLAY (CL-ML): BLACK/BROWN; VERY MOIST; COMPLEX MATRIX. 6 - 7' - SANDY CLAY (CLS): TAN/KHAKI/BROWN; HARD ROCK; VERY COMPACT; DRY; AUGER UTILIZED FROM 5 TO 7' BGS. 7 - 18' - SHALE: DARK BROWN; AUGER REFUSAL AT 7' BGS; AIR ROTARY UTILIZING FROM 7 TO 58.5' BGS.		CONCRETE 0 - 0.5'
25 -			18 - 58.8" - SHALE: LIGHT GREY. 21 12/12/18		BENTONITE 0.5 - 36.5'



WELL NO .: SB-17/MW-9

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: REFUSAL AT 20.5' BGS.

SATURATED ZONE: N/A

WEATHER: 40'S/BRISK

LOGGED BY: JOHN DIBERT

DRILLING METHOD: DIRECT PUSH

OPERATOR: TERRA TESTING

BOREHOLE COMPLETION: SOIL BORING/MW

DATE: 10/26/2018

TOC EL	_EVATION:		BOREHOLE DIAMET	ER: 2"	
DEPTH	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
		0.0 0.0 0.1 0.0	0 - 0.4' - PAVEMENT. 0.4 - 2' - SANDY CLAY (CLS): LOOSELY COMPACTED; 0.5 - 2 CM PEBBLES PRESENT. 2 - 3' - SILTY CLAY (CL-ML): DARK EARTHY BROWN; DRY/MOIST; COMPACTED MATRIX; 0.5 TO I / CM PEBBLES. 3 - 4' - SILTY CLAY (CL-ML): BURNT ORANGE/REDDISH-BROWN; VERY COMPACT; 0.5 TO I CM PEBBLES; MOIST. 4 - 9' - NO RECOVERY.		BENTONITE 0.5 - 8' PVC RISER DIA 2"
5 -	1 2. 1 54 58-17/MW-9 (19')	1.2 1.6 54.1	MATRIX; LOOSELY COMPACTED; 0.1 TO 0.3 CM PEBBLES. 9.5 - II' - SILTY CLAY (CL-ML): BLACK / EARTHY BROWN / CREAMY WHITE; VERY COMPACT MATRIX. II - I3' - SANDY CLAY (CLS): RED/ORANGE; VERY HARD AND COMPACTED; I - 3 CM PEBBLES. I3 - I6' - SANDY CLAY (CLS): EARTHY BROWN / BLACK / ORANGE/WHITE; MOIST AT I3' BGS / DRIER AT I5' BGS; VERY COMPACT; VERY LITTLE PEBBLES. I6 - I8' - SILTY CLAY (CL-ML): ORANGE/BROWN; VERY COMPACTED; NO PEBBLES. I8 - I9' - SILTY CLAY (CL-ML): EARTHY BLACK/BROWN WITH ORANGE SPOTS; VERY BRITTLE TO VERY COMPACT. I9 - 20.5' - SILTY CLAY (CL-ML): LIGHT ORANGE /		## FILTER SANI 8 - 20.5' WELL SCREE DIA 2" SLOT 0.010 10 - 20.5'
25			BROWN; DRY; VERY COMPACTED.		
5 _					



WELL NO .: MW-IBR

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: TERMINATED AT 58.8' BGS.

SATURATED ZONE: N/A

WEATHER: 40'S/RAINING LOGGED BY: JOHN DIBERT

DRILLING METHOD: DIRECT PUSH/AR/AUGER/AIR KNIFE

OPERATOR: TERRA TESTING

BOREHOLE COMPLETION: MONITORING WELL

DATE: 10/29/2018 BOREHOLE DIAMETER: 2.25"/4.25"/8.25"

	LEVATION		BOREHOLE DIAMETI	GRAPHIC	WELL CONSTRUCTION
DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	LOG	DETAILS
					N7771 N7721 CONCRETE
			0 - 0.8" - CONCRETE. 0.8 - 4.1 - SILTY CLAY (CL-ML); RED/WHITE/GREY (MULTI-COLORED); DRY; BRITTLE; SLIGHTLY MOIST; 0 - 4.1 - AIR KNIFE.		0 - 0.5'
Third			4.1 - IZ' - CLAY (CL): LIGHT TAN/KHAKI; UNIFORM CLAY; AUGER UTILIZED FROM 4.1 TO IZ' BGS - AUGER REFUSAL AT IZ' BGS.	44144444444	
-			12 - 20' - SHALE: DARK-GREYISH BROWN; AIR ROTARY UTILIZED FRM IZ TO 58.8' BGS.		
-			20 - 25' - SHALE: STRONG BROWN.		BENTONITI 0.5 - 36.5
- - - - 25			25 - 58.8' - SHALE: LIGHT GREY; SMALL COAL		
			PATCH.		
50			, m		
35			JA 1/12/18		



WELL NO .: MW-IBR

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: TERMINATED AT 58.8' BGS.

SATURATED ZONE: N/A

WEATHER: 40'S/RAINING LOGGED BY: JOHN DIBERT

DRILLING METHOD: DIRECT PUSH/AR/AUGER/AIR KNIFE

OPERATOR: TERRA TESTING

BOREHOLE COMPLETION: MONITORING WELL

DATE: 10/29/2018

EPTH	EVATION			METER: 2.25"/4.2	WELL CONSTRUCTION
EPTH CALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
					MARKET PARKET
					PVC RISER
_					DIA 2" 0.5 - 38.5
-					0.3 - 30.3
_					
-					
9					
-					
-					WELL SCOR
-					WELL SCRE
_					SLOT 0.010 38.5 - 58.8
100					36.5 - 56.6
_					
-					(A) = (A)
-					
			58.8' - TERMINATED AT 58.8' BGS.		1.00
-					
-					
-					
_					
-					
	1				
	1				



WELL NO .: MW-3BR

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA DEPTH: REFUSAL AT 20' BGS. SATURATED ZONE: 18.5' BGS. WEATHER: 50'S/SUNNY LOGGED BY: JOHN DIBERT

DRILLING METHOD: DIRECT PUSH/AR/AUGER/AIR KNIFE

OPERATOR: TERRA TESTING

BOREHOLE COMPLETION: MONITORING WELL

DATE: 10/30/2018

EVATION		BOREHOLE DIAMETE	the second secon	
SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC	WELL CONSTRUCTION DETAILS
	0.0	0 - 0.5' - PAVEMENT. 0.5 - 8' - SILTY CLAY (CL-ML): BROWN/ORANGE; 0.5 - 3 CM PEBBLES; LOOSELY COMPACTED; AIR KNIFE REFUSAL AT 4.5' BGS; AUGER UTILIZED FRM 4.4 TO II' BGS.		CONCRETE 0 - 0.5'
	125 -			0.5 - 8'
	405 145 163	CRUMBLY: HIGH ODOR. II - 20' - SHALE: LIGHT BROWN; HIGH ODOR;		PVC RISER DIA 2* 0 - 10'
	40	MOIST; SATURATED AT 18.5' BGS.		FILTER SAN 8 - 20'
				DIA 2" SLOT 0.010 10 - 20'
		20' - REFUSAL AT 20' BGS.		
		0.0 0.0 125 405 145	SAMPLE NO. PID (PPM) LITHOLOGY DESCRIPTION 0 - 0.5' - PAVEMENT. 0.5 - 8' - SILTY CLAY (CL-ML): BROWN/ORANGE; 0.5 - 3 CM PEBBLES; LOOSELY COMPACTED; AIR KNIFE REFUSAL AT 4.5' BGS; AUGER UTILIZED FRM 4.4 TO II' BGS. 125 405 145 163 1I - 20' - SHALE: LIGHT BROWN; HIGH ODOR; MOIST; SATURATED AT 18.5' BGS.	SAMPLE NO. PID (PPM) LITHOLOGY DESCRIPTION 0 - 0.5' - PAVEMENT. 0.5 - 8' - SILTY CLAY (CL-ML): BROWN/ORANGE; 0.5 - 3 CM PEBBLES; LOOSELY COMPACTED; AIR KNIFE REFUSAL AT 4.5' BGS; AUGER UTILIZED FRM 4.4 TO II' BGS. 125 405 145 163 40 II - 20' - SHALE: LIGHT BROWN; HIGH ODOR; MOIST; SATURATED AT 18.5' BGS.



WELL NO.:

SB-18/MW-5BR

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: TERMINATED AT 79.5' BGS.

SATURATED ZONE: N/A

TOC FLEVATION:

WEATHER: 40'S

LOGGED BY: JOHN DIBERT

DRILLING METHOD: DIRECT PUSH/AR/AUGER/AIR KNIFE

OPERATOR: TERRA TESTING

BOREHOLE COMPLETION: SOIL BORING/MW

DATE: 10/26/2018

BOREHOLE DIAMETER: 2"

DEPTH	SAMPLE NO.		BOREHOLE DIAMETE	GRAPHIC LOG	WELL CO	NSTRUCTION
SCALE	SPITE LE NO	110 0107	FILIPPAX I SEASON TON	1.00	DETAILS	
		0.0 0.1 0.2 0.0 0.0 3.2	0 - 0.6' - PAVEMENT. 0.6 - 2' - SILTY CLAY (CL-ML): BURNT ORANGE/REDDISH BROWN; STANDING WATER (I' DEPTH); VERY MOIST; I TO 3 CM PEBBLES - VERY WELL COMPACTED. 2 - 2.5' - SILT (ML): TAN/KHAKI; DRY; COMPACT; MOIST; I TO 2 CM PEBBLES. 2.5 - 4' - SILTY CLAY (CL-ML): CHALK WHITE - TRANSITIONS TO BROWN/BLACK; VERY DRY; COMPACT; NO PEBBLES. 4 - 5' - CLAY (CL): RED/WHITE/BROWN; CHALKY; COMPCT; MOISTURE PRESENT; SILTY; NO PEBBLES;			CONCRETE 0 - 0.5
0 =		7.8	AIR KNIFE UTILIZED FROM 9 TO 5' BGS - REFUSAL AT 5' BGS; AUGER UTILIZED FROM 5 TO 20' BGS. 5 - 9' - SILTY CLAY (CL-ML); MULTI-COLORED - ORANGE/WHITE/BROWN/; MOIST; 0.5 TO 1 CM PEBBLES; COMPACT MATRIX.			
15	5B-18/MW-5E (17')	0.I SR 567.3	I 9-10'-SILTY CLAY (CL-ML); DARK BROWN; CRUMBLY TEXTURE; SMALL PEBBLES (0.1 TO 0.3 MM MATRIX). I0-12'-SILTY CLAY (CL-ML); LIGHT GREY; VERY COMPACTED; I TO 2 CM PEBBLES; MOIST. I2-13'-SANDY CLAY (CLS); BROWNISH-YELLOW; VERY COMPACT MATRIX; SLIGHT ODOR.			
20 —			13 - 20' - SILTY CLAY (CL-ML): STRONG BROWN - TRANSITIONS TO DARK REDDISH-BROWN; DRY; \ CRUMBLY; MODERATELY TO LOOSELY COMPACTED; / AIR ROTARY UTILIZED FROM 20 - 79.5' BGS / 20 - 79.5' BGS - SHALE: LIGHT GREY; INTERMITTENT COAL PATCH.			
25						• —BENTONITE 0.5 - 5[.5'
30 -			Onl - 17/-5			
35			John Dlace 12/17/18			



WELL NO .: SB-18/MW-5BR

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE

CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: TERMINATED AT 79.5' BGS.

SATURATED ZONE: N/A

WEATHER: 40'S

LOGGED BY: JOHN DIBERT

DRILLING METHOD: DIRECT PUSH/AR/AUGER/AIR KNIFE

OPERATOR: TERRA TESTING

BOREHOLE COMPLETION: SOIL BORING/MW

DATE: 10/26/2018

DEDTH	EVATION		BOREHOLE DI	CDAPHIC	WELL CONSTRUCTION
DEPTH	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
-	+				
-	1				
	1				
0 -	4				
_	4				
	1				
-					
_	1				
5					
-					
-					
9					
0					
-	-				
-					
-					\$30 S
5					PVC RISER
					PVC RISER DIA 2" 0 - 59.5'
-	1				
-	-				
_					
0					
_	-				
-	-				
_					
5					FILTER SA 61'5 - 79.5
· -					013-79.5
-					
_					
_					WELL SCO
^		7			DIA 2"
0					WELL SCRI DIA 2" SLOT 0.010 59.5 - 79.
					59.5 - 79.
-					1.00



WELL NO.: SB-18/MW-5BR

PROJECT No.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA

DEPTH: TERMINATED AT 79.5' BGS.

SATURATED ZONE: N/A

TOC ELEVATION:

WEATHER: 40'S

LOGGED BY: JOHN DIBERT

DRILLING METHOD: DIRECT PUSH/AR/AUGER/AIR KNIFE

OPERATOR: TERRA TESTING

BOREHOLE COMPLETION: SOIL BORING/MW

DATE: 10/26/2018

BOREHOLE DIAMETER: 2"

DEPTH SCALE SAMPLE NO.
EPTH SAMPLE NO.



WELL NO .: RW-I

PROJECT NO.: 4923.18.01
PROJECT NAME: SPILL RESPONSE
CLIENT: WOODLAND FOOD AND FUEL
LOCATION: WOODLAND, PA
DEPTH: REFUSAL AT 14.5' BGS.
SATURATED ZONE: N/A
TOC ELEVATION:

WEATHER: OVERCAST/20'S

LOGGED BY: ADAM KOVAC
DRILLING METHOD: AUGER/SPLIT SPOON
OPERATOR: TERRA TESTING
BOREHOLE COMPLETION: RECOVERY WELL

DATE: 1/16/2018

EVATION	:	BOREHOLE DIAMET		A STATE OF THE STA
SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
	12.1 14.6 20.1 8.9 4.6 12.6 27.9	0 - 8' - CLAY (CL): ORANGE/BROWN CLAY WITH BROWN SHALE / EXCAVATED MATERIAL THAT WAS BACKFILLED.		CONCRETE 0 - I' BENTONITE I - 4' PVC RISER
	54.6 1096 897 1122	8 - I0.5 - SILTY CLAY (CL-ML): BROWN/ORANGE; MOTTLED; LOW PLASTICITY; SHALE FRAGMENTS PRESENT. I0.5 - I2' - SHALE: BROWN; WEATHERED; SMALL PIECES; VERY SOFT.		DIA 4" 0 - 9.5' FILTER SAND 9 - 14.5'
	392	12 - I4.5' - SILTY CLAY (CL-ML): BROWN/ORANGE; MOTTLED; INCREASING SHALE FRAGMENTS.		WELL SCREE DIA 4" SLOT 0.020 9.5 - 14.5'
	437	14.5 - KEPUSAL AT 14.5 BGS - BROWN SHALE.		
		adn Mr		
		211/18		
	SAMPLE NO.	14.6 20.1 8.9 4.6 12.6 27.9 54.6 1096 897	12.1 BROWN SHALE / EXCAVATED MATERIAL THAT WAS 14.6 BACKFILLED. 20.1 8.9 4.6 12.6 27.9 54.6 1096 MOTTLED; LOW PLASTICITY; SHALE FRAGMENTS 897 PRESENT. 1122 10.5 - 12' - SHALE: BROWN; WEATHERED; SMALL PIECES; VERY SOFT. 12 - 14.5' - SILTY CLAY (CL-ML): BROWN/ORANGE; MOTTLED; INCREASING SHALE FRAGMENTS.	12.1 0 - 8' - CLAY (CL.): ORANGE/BROWN CLAY WITH BROWN SHALE / EXCAVATED MATERIAL THAT WAS BACKFILLED. 8.9 4.6 12.6 27.9 54.6 1096 MOTTLED; LOW PLASTICITY; SHALE FRAGMENTS PRESENT. 1122 10.5 - 12' - SHALE: BROWN; WEATHERED; SMALL PIECES; VERY SOFT. 12 - 14.5' - SILTY CLAY (CL-ML.): BROWN/ORANGE; MOTTLED; INCREASING SHALE FRAGMENTS. 14.5' - REFUSAL AT 14.5' BGS - BROWN SHALE; 14.5' - REFUSAL AT 14.5' BGS - BROWN SHALE; 14.5' - REFUSAL AT 14.5' BGS - BROWN SHALE; 14.5' - REFUSAL AT 14.5' BGS - BROWN SHALE; 15.5' - REFUSAL AT 14.5' BGS -



WELL NO .: RW-2

PROJECT NO.: 4923.18.01

PROJECT NAME: SPILL RESPONSE CLIENT: WOODLAND FOOD AND FUEL

LOCATION: WOODLAND, PA DEPTH: REFUSAL AT 14' BGS. SATURATED ZONE: N/A

WEATHER: OVERCAST/20'S LOGGED BY: ADAM KOVAC

DRILLING METHOD: AUGER/SPLIT SPOON

OPERATOR: TERRA TESTING BOREHOLE COMPLETION: RECOVERY WELL

DATE: 1/16/2018 BOREHOLE DIAMETER: 6.25

TOC EL	LEVATION		BOREHOLE DIAMET		STATE OF THE PARTY
DEPTH	SAMPLE NO.		LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0 -		0.0 0.0 0.0 0.0 0.0 26.8 123 116.7 124.6 109.7 457 1192 695	0 - 0.5' - ASPHALT. 0.5 - 3.5' - FILL MATERIAL: MOSTLY SHALE; VERY HARD. 3.5 - 7' - SILTY CLAY (CL-ML): BROWN/ORANGE; MIXED WITH LOTS OF WEATHERED BROWN SHALE FRAGMENTS. 7 - 8.5' - SHALE: SMALL PIECES - LESS THAN 0.25"; VERY SOFT AND WEATHERED. 8.5 - I4' - SILTY CLAY (CL-ML): BROWN/ORANGE; INCREASING AMOUNTS OF SHALE.		PVC RISER DIA 4' 0 - 9' FILTER SAM 8 - 14' WELL SCREE DIA 4" SLOT 0.020 9 - 14'
20			aden Movae		
35					



DENSITY DETERMINATIONS

Client Mountain Research, LLC Project 24948 39960

Boring Number	SB-6	
Depth	10.0'-12.0'	
Sample	SB-6	
Lab Sample No.	39960001	
		Water Contents
Tare Number	909	
Wt. Tare & WS, gm	528.37	
Wt. Tare & DS, gm	482.79	
Wt. Tare, gm	141.07	
Water Content, %	13.3%	
		Direct Measurement Method
Wt, Of Wet Soil + tube., gm	419.45	
Wt of empty tube, gm	24.31	
Wt. of Wet Soil, gm	395.14	
Length 1, in	5.195	
Length 2, in	5.225	
Length 3, in	5.165	
Top Diameter, in	1.668	
Middle Diameter, in	1.625	
Bottom Diameter, in	1,68	
Sample Volume, cc	183.73	
Water Content,%	13.3%	
Unit Wet Wt., gm/cc	2.15	
Unit Wet Wt., pcf	134.2	
Unit Dry Wt., pef	118.4	
Unit Dry Wt., gm/cc	1.90	
Specific Gravity, Assumed	2.7	
Void Ratio,e	0.42	
Porosity, n	0.30	
Saturation %	85.2%	

Reviewed By: ALO

Input Validation: JSJ

Date: 4/8/2018

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SPECIFIC GRAVITY OF SOILS - ASTM D854 (B)

Client Client Project Project No.

Mountain Research, LLC 24948 - 4932.18.01 39960

4/2/2018 Date:

2723 0.9998 2.72

499.44

161.08

817 151.11 101.04 50.07 0.9980 659.52

161.09 691.2

1 -44 73.5

SB-6

10.0'-12.0'

39960001

Input Validation: AR SB-6

Specific Gravity of Conversion (
Soil at Factor
Test Temp For Temp

Average Calibrated Volume of

Dry Weight Pycnometer

gm ml

Mp Vp

CALIBRATION PARAMETERS

Weight Test P
Dry Water
Soil Density
Em gm/ml
Mds pw,t

Tare Weight

Taret Dry Soil Rm

Tare No.

Pycnometer Check Weight gm Mp

Replicate Material Passing No. Used #4 Sieve

Sample

Depth

Boring

Lab Sample No.

Reviewed By: ALO COPYRIGHT @ 2014 GEOTECHNICAL TESTING SERVICES 1-800-853-7309

PARTICLE-SIZE DISTRIBUTION OF SOILS USING SIEVE ANALYSIS- ASTM D6913-17

Client Client Project

Sample Color:

Mountain Research, LLC 24948 - 4932.18.01

39960

Boring **SB-6** Depth 10.0'-12.0' Sample SB-6

Lab Sample 39960001

Project No.

BROWN CLAYEY SAND WITH GRAVEL

USCS Group Name: **USCS Group Symbol:**

USDA:

NA

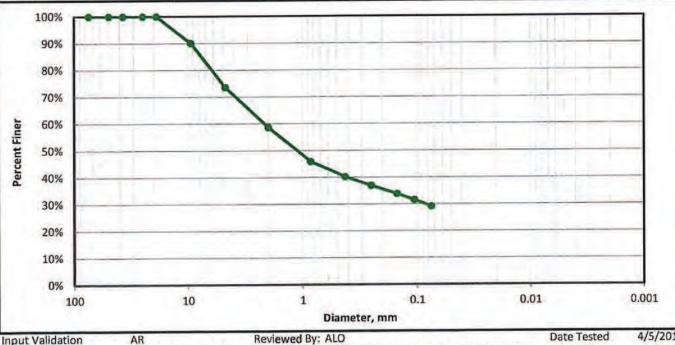
AASHTO:

NA

		MEC	HANICAL SIEVE				
Total Sample		Sieve	Nominal	Dry	Split Norn		Project
Total Sample Wet Wt, gm (-3")	467	Size	Opening, mm	Wt, gm	% Retained	% Finer	Specifications
Sample Split on Sieve	No. 4	3"	75	0	0.0%	100.0%	
Coarse Washed Dry Sample, gm	114	2"	50	0	0.0%	100.0%	
Wet Wt Passing Split, gm	353	1-1/2"	1 37.5	0	0.0%	100.0%	
Dry Wt. Passing Split, gm	316	1"	25	0	0.0%	100.0%	
Total Sample Dry Wt, gm	430	3/4"	19	0	0.0%	100.0%	
Control of the contro		3/8"	9.5	42.76	9.9%	90.1%	
Split Sample - Passing No	0. 4	No. 4	4.75	70.78	16.5%	73.6%	
Tare No.	2001	No. 10	2	17.43	15.0%	58.6%	
Tare + WS., gm	250.2	No. 20	0.85	14.75	12.7%	45.9%	
Tare + DS., gm	240.3	No. 40	0.425	6.54	5.6%	40.2%	
Tare, gm	154.93	No. 60	0.25	3.86	3.3%	36.9%	
Water Content of Split Sample	11.6%	No. 100	0.15	3.61	3.1%	33.8%	
Wt. of DS., gm	85.37	No. 140	0.106	2.6	2.2%	31.5%	
De service de la constante de		No. 200	0.075	2.82	2.4%	29.1%	
Wt. of +#200 Sample, gm	51.61						

Corrected For 100% Passing a 3" Sieve % Gravel (-3" & +#4) 26.4 Silt=NA Clay=NA D60, mm NA Coarse=0; Fine=26.4 D30, mm NA % Sand (-#4 & +#200) 44.5 NA D10, mm Coarse=15; Medium=18.4; Fine=11.1 % Fines (-#200) 29.1 Cc NA NA % Plus #200 (-3") 70.9 Cu

USCS SOIL CLASSIFICATION **USCS Description** CLAYEY SAND WITH GRAVEL **Atterberg Limits Group Symbol USCS Group Symbol** cl - Lean Clay (assumed) **Auxiliary Information** Wt Ret, gm | % Retained % Finer 100.0 12" Sieve - 300 mm 0 0.0 100.0 0 0.0 6" Sieve - 150 mm 3" Sieve - 75 mm 0 0.0 100.0



Input Validation

Reviewed By: ALO

Date Tested

4/5/2018

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Slug Test Analysis Methodology

The most practical method for determining aquifer characteristics (e.g. hydraulic conductivity, and transmissivity) utilizing small diameter monitoring points is a aquifer slug test. Transmissivity (T) is a term that describes the velocity of a fluid traveling through an aquifer unit or it is the ability of the aquifer's subsurface material to transmit fluid (hydraulic conductivity - K) at a hydraulic gradient (I). When water is displaced in well during a slug test, water is removed and/or added from the aquifer surrounding the well and consequently the water table is lowered or raised over a given area. The displacement within the area of influence is the distance the water level is lowered and or raised from the initial static level. By collecting this displacement data during a slug test via a data logger system and/or manually with a water level indicator, the data can be used to generate displacement versus time best-fit line to estimate the variation of displacement with time near the well. This best fit line will describe the ability of the ground water to permeate through the aquifer.

Bouwer and Rice Method for Slug Tests

The Bouwer and Rice equation allows for the determination of the aquifer characteristics based on the following assumptions:

- The aquifer is homogenous, isotropic, of uniform thickness and infinite aerial extent.
- The water level surface is horizontal.
- The well is displaced at a constant rate. The well partially penetrates the aquifer and flow is horizontal within the aquifer.
- Water removed and/or added is performed instantaneously with a declining and/or ascending head.

To utilize the Bouwer and Rice equation: K = (rc2ln (Re/rw)/2Le x 1/t x ln yo/yt

Where:

K = Hydraulic Conductivity

R_c = radius of casing

Re = effective radial distance over which y is dissipated

r_w = radial distance of undisturbed portion of aquifer from centerline

L_e = length of screened area

t = time value

y = vertical difference between water level inside well and

static water table outside well

y_o = y at time zero y_t = y at time t

Best-fit time-displacement line is superimposed on the time versus displacement semi log graphs. A point is selected to determine coordinates of match points of y and t (yo at t = 0 and yt at t), a number of y and t measurements can be taken and (ln (yo/yt)/t is determined as the slope of the best-fitting line through the y versus t points on semi-logarithmic paper. The straight line through the data points can also be used to select two values of y along with the time interval t between them for substitution into the equation.



Aquifer Hydraulic Values from Slug Tests

WOODLAND FOOD AND FUEL, INC. WOODLAND, PA

MR Project No. 4923.18.01

Summary of Aquifer Test Responses and Analyses

Unconfined Shallow Aquifer

ln(K)	-1.992164
K (ft/d)	0.136
p (tt)	9.50
Transmissivity (#2/d)	1.296
Analysis Method	Bouwer & Rice
Test Phase	Falling Head
Weil	MW-2
Test Type	Slug

0.136 9.500 1.30 Mean In (hydraulic conductivity) =
Geometric mean hydraulic conductivity (K) ft/day =
Average hydraulic conductivity (K) ft/day =
Average saturated aquifer thickness(b) =
Average Transmissivity (T = Kb) (ft²/day) =

-1.992

Confined Deep Aquifer

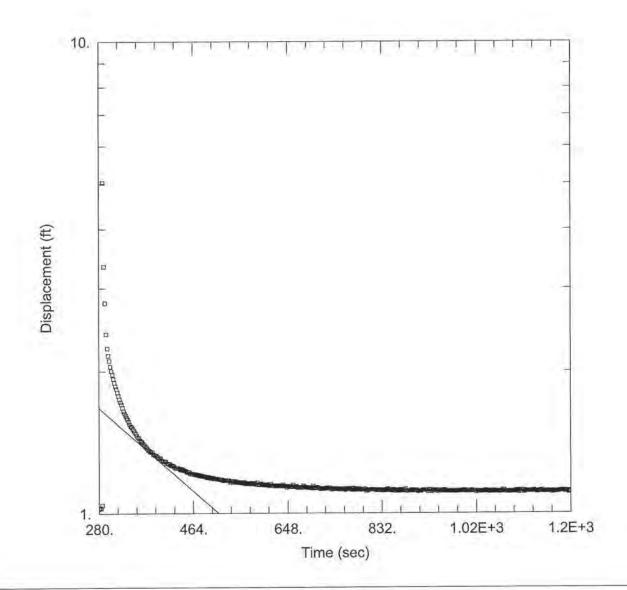
Test Type	Well	Test Phase	Analysis Method	Transmissivity (ft2/d)	b (ft)	K (ft/d)	In(K)
	MW-3BR	Rising Head	Bouwer & Rice	0.422	6.50	0.065	-2.7346
Slug	OGN / 400	Rising Head	Bouwer & Rice	1.679	12.00	0.140	-1.966827
	NOT-ANIA	Falling Head	Bouwer & Rice	0.608	12.00	0.051	-2.982027

	0.085	10.167	
Mean In (hydraulic conductivity) = Geometric mean hydraulic conductivity (K) ft/day =	Average hydraulic conductivity (K) ft/day =	Average saturated aquifer thickness(b) =	Average Transmissivity (T = Kb) (ft²/day) = 0.90

Created By: Checked By:

-2.561

b - Saturated Aquifer Thickness K - Hydraulic Conductivity



MW-2 FH

Data Set: \...\MW-2_FH.aqt

Date: 12/19/18

Time: 17:26:09

PROJECT INFORMATION

Company: Mountain Research

Client: Woodland Food and Fuel

Project: 4923.18.01 Location: Woodland Test Well: MW-2 Test Date: 11/27/18

AQUIFER DATA

Saturated Thickness: 9.5 ft Anisotropy Ratio (Kz/Kr): 1.

Initial Displacement: 3.98 ft
Total Well Penetration Depth: 4.5 ft

Casing Radius: 0.083 ft

WELL DATA (MW-2)

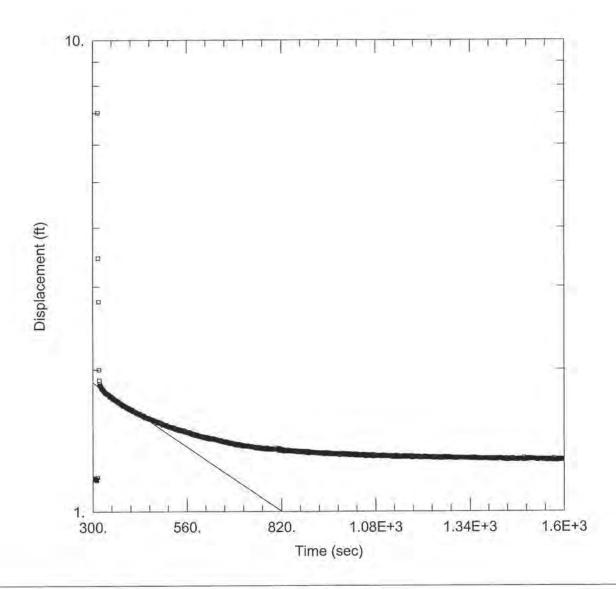
Static Water Column Height: 4.5 ft

Screen Length: 20. ft
Wellbore Radius: 0.146 ft
Gravel Pack Porosity: 0.28

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.1364 ft/day y0 = 3.1 ft



MW-3BR_RH

Data Set: \...\MW-3BR_RH.aqt

Date: 12/19/18

Time: 15:18:19

PROJECT INFORMATION

Company: Mountain Research

Client: Woodland Food and Fuel

Total Well Penetration Depth: 1.5 ft

Project: 4923.18.01 Location: Woodland Test Well: MW-3BR Test Date: 11/27/18

AQUIFER DATA

Saturated Thickness: 6.5 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-3BR)

Initial Displacement: 5.836 ft Static Water Column Height: 1.5 ft

Screen Length: 10. ft Wellbore Radius: 0.146 ft

SOLUTION

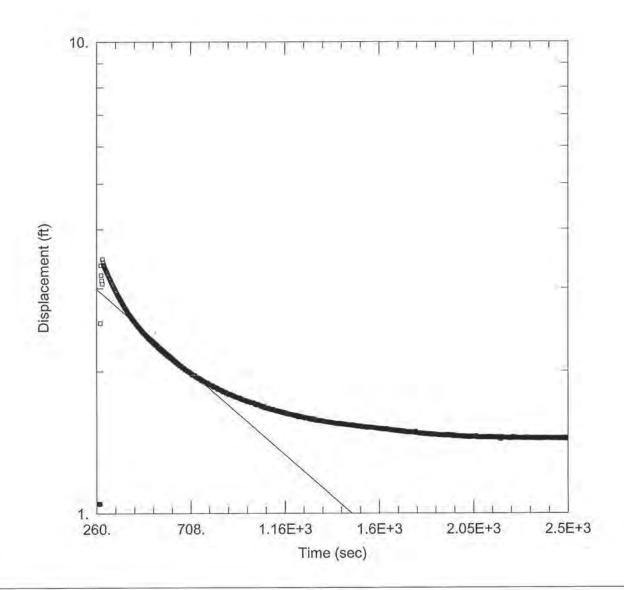
Solution Method: Bouwer-Rice

y0 = 2.701 ft

K = 0.06492 ft/day

Casing Radius: 0.083 ft

Aquifer Model: Confined



MW-4BR FH

Data Set: \...\MW-4BR FH.aqt

Date: 12/19/18

Time: 15:18:39

PROJECT INFORMATION

Company: Mountain Research

Client: Woodland Food and Fuel

Project: 4923.18.01 Location: Woodland Test Well: MW-4BR Test Date: 11/27/18

AQUIFER DATA

Anisotropy Ratio (Kz/Kr): 1.

Saturated Thickness: 12. ft

Initial Displacement: 2.419 ft

Total Well Penetration Depth: 7. ft

Casing Radius: 0.083 ft

WELL DATA (MW-4BR)

Static Water Column Height: 7. ft

Solution Method: Bouwer-Rice

Screen Length: 15. ft

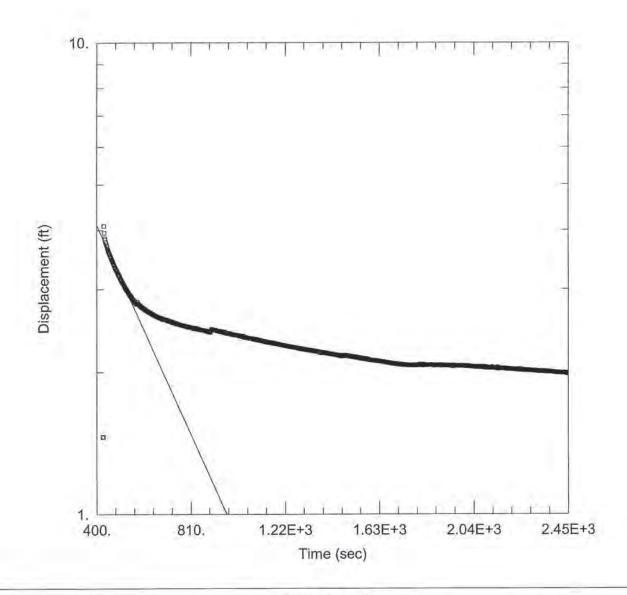
Wellbore Radius: 0.146 ft

SOLUTION

Aguifer Model: Confined

y0 = 3.778 ft

 $K = 0.05069 \, \text{ft/day}$



MW-4BR_RH

Data Set: \...\MW-4BR_RH.aqt

Date: 12/19/18

Time: 15:19:04

PROJECT INFORMATION

Company: Mountain Research

Client: Woodland Food and Fuel

Project: 4923.18.01 Location: Woodland Test Well: MW-4BR Test Date: 11/27/18

AQUIFER DATA

Anisotropy Ratio (Kz/Kr): 1.

Saturated Thickness: 12, ft

Initial Displacement: 2.831 ft

Total Well Penetration Depth: 7. ft

Casing Radius: 0.083 ft

WELL DATA (MW-4BR)

Static Water Column Height: 7. ft

Screen Length: 15. ft Wellbore Radius: 0.146 ft

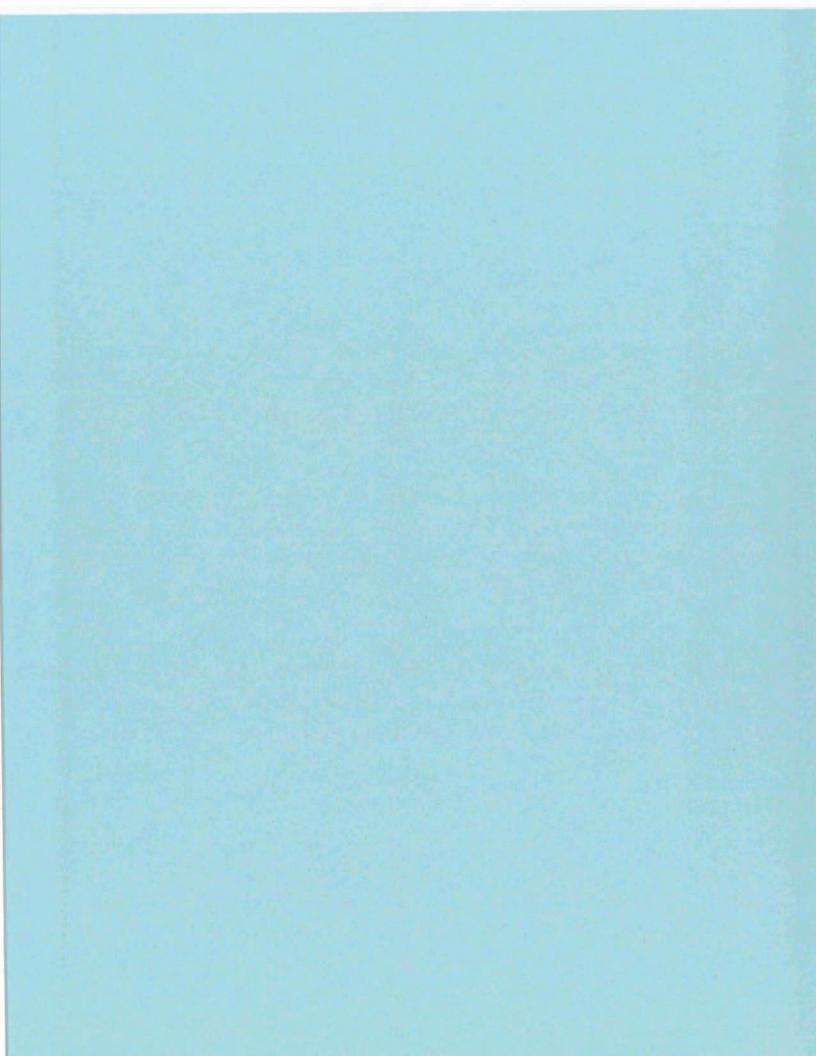
SOLUTION

Aquifer Model: Confined

K = 0.1399 ft/day

Solution Method: Bouwer-Rice

y0 = 11.1 ft



APPENDIX K
UST & UTILITY SURVEY

March 9, 2018

RE:

Michael R. Crowe, P.G. Mountain Research, LLC 825 25th Street Altoona, Pennsylvania 16601 (814) 949-2034 GEOPHYSICS

Underground Storage Tank and Utility Survey Woodland Food & Fuel Route 322 & 970 Woodland, Pennsylvania THG Project No. 213-6767

Dear Mr. Crowe:

THG Geophysics, Ltd. (THG) conducted a geophysical investigation to identify subsurface utilities and potential underground storage tanks (UST) at the former Woodland Food & Fuel property located in Woodland, Pennsylvania on March 2, 2018 (Figure 1). THG utilized time-domain electromagnetic (TDEM) terrain conductivity mapping, ground penetrating radar (GPR), frequency induction electromagnetics, 60 Hz locators and radio frequency detectors to image the subsurface of the 0.6-acre area of interest at the property.

The frequency induction electromagnetic line locator works both actively and passively. In an active application, a transmitter can be connected to metallic utilities, or utilities with a tracer wire, and induce a unique frequency that can then be traced with the receiver. In passive application, the receiver is set to a unique frequency and searches for that frequency carried by grounded metallic utilities. Radio frequency detectors measure stray frequencies that may be carried by grounded conductors, and the 60 Hz line locator detects AC current flow. These data were analyzed real-time in the field and the location of subsurface utilities were identified on the ground surface using marking paint and/or flags and recorded with a Trimble Geo-7X global positioning system (Figure 2).

TDEM terrain conductivity mapping detects metal by utilizing a transmitter antenna that emits a pulsed electromagnetic signal and a receiver that measures the slow decay of energy from excited ferrous and non-ferrous sources (in milli-Volts). A Geonics EM-61-MK2A integrated with a Trimble Geo7X global positioning system was used to complete this survey (Figure 3).

GPR data were collected over the entire area of interest, targeting anomalous areas exhibited in the TDEM data, as well as helping to image any subsurface utilities. The GPR unit operates by transmitting radar waves (microwave band) downward from a transmitting antenna and receives the reflected energy at the receiving antenna. The reflected signal is output digitally and displayed as a radargram. Any contrast in dielectric properties show up as reflecting boundaries. Subsurface soils containing electrically conductive materials (i.e. clays, groundwater, reinforcement bars) rapidly attenuate the radar signal and, therefore, decrease penetration depth. A Sensors and Software Noggin GPR equipped with a 250 MHz antenna was used to image a depth range of approximately 2-6 ft below grade in areas not containing reinforced concrete.

Summary:

The property located at intersection of Routh 322 and 970 in Woodland, Pennsylvania, was surveyed for the presence of USTs and subsurface utilities using TDEM terrain conductivity mapping, GPR, frequency induction electromagnetic techniques, radio frequency locators and 60 Hz locators on March 2, 2018 (Figure 1). The survey area included the paved lot on the East side of the fuel island

M. Crowe March 9, 2018 Page 2

of the former Woodland Food & Fuel building and in the grassy hillside behind the building. The survey area did not include the section of paved lot on the West side of the fuel island and building.

Numerous utilities were located within the survey area including numerous electric utilities, a water utility, sanitary sewer utilities, a storm water utility, a propane utility, and unknown utilities/linear features (Figure 2). Several of the unknown utilities may be fuel and/or electric lines as they extend from the existing underground fuel tanks to the fuel pumps. It should be noted that the location of all fuel lines could not be delineated by utility locating techniques at the site due to fuel line composition or the presence of reinforced concrete. The sanitary line to the south of the building is believed to extend to the east of the sanitary cleanout per conversation with the property owner. It was not possible to verify the location of the sanitary utility past the clean out. Seven boring locations were cleared of subsurface utilities (SB-1/MW-1, SB-2/MW-2, SB-3/MW-3, SB-4/MW-4, SB-8, SB-7, SB-8, SB-9). Two borings were located on a steep inaccessible hillside and could not be cleared (SB-5/MW-SB-6). Onsite Mountain Research personnel indicated that these two borings would be re-located to a location clear of subsurface utilities during drilling efforts.

TDEM data were collected over the area of interest. The TDEM data was of good quality but was heavily impacted in some areas by the presence of vehicles parked on the lot. Three anomalies were identified in the FDEM data. All three anomalies were imaged with GPR, and did not display the typical signature associated with a UST. Anomaly 1 and Anomaly 2 are likely associated with two isolated slabs of reinforced concrete. Anomaly 3 may be related to buried debris, but does not have the typical signature of a UST. Four active fuel storage tanks were identified on site with both TDEM and GPR (Figure 3).

The locations of the findings over the area of interest were marked in the field using survey paint and recorded using a Trimble Geo7X Global Positioning System. Should you have any questions or require additional information, please contact our office at (724) 325-3996 or via e-mail hlk@thggeophysics.com.

Respectfully.

THG Geophysics, Ltd.

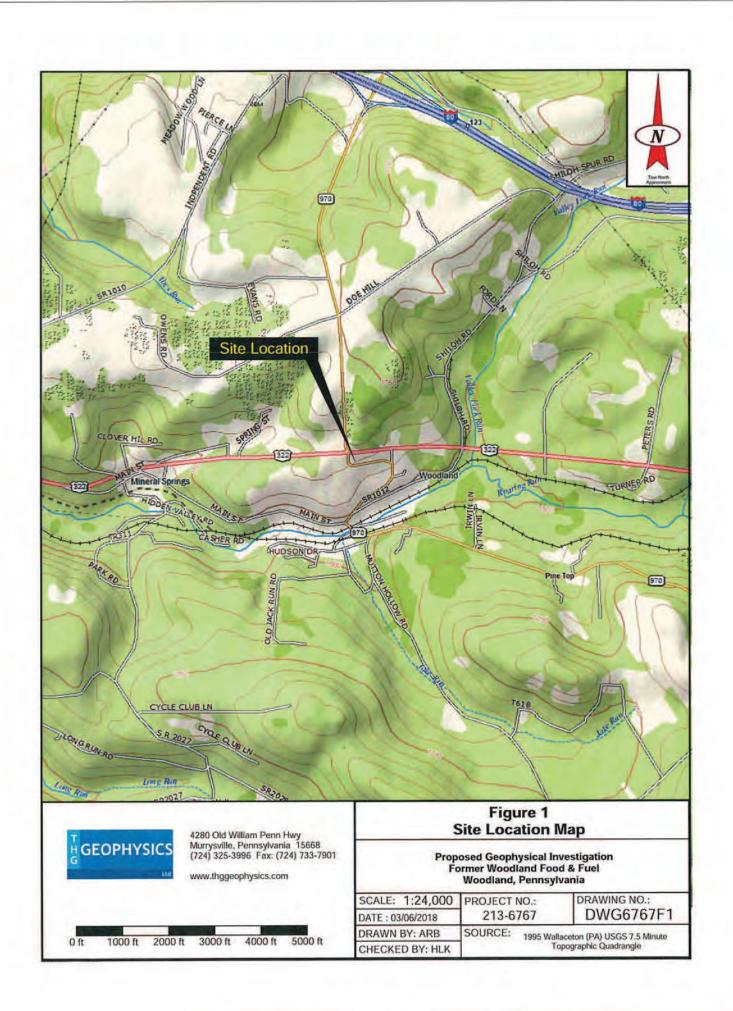
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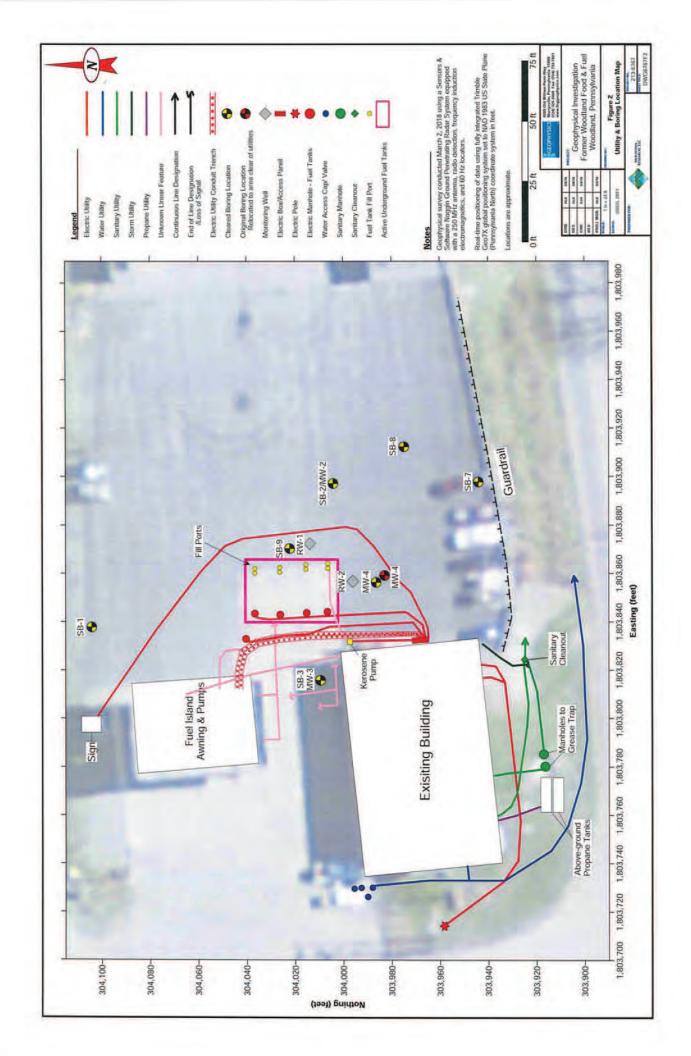
Heather Krivos

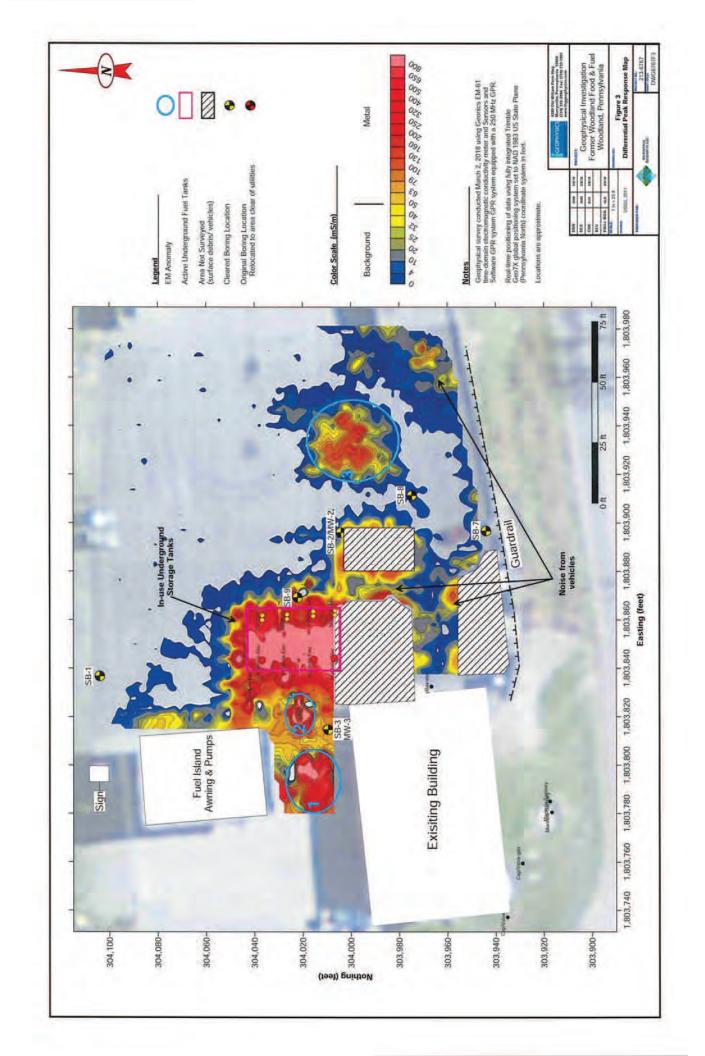
Senior Geophysicist

Enclosures

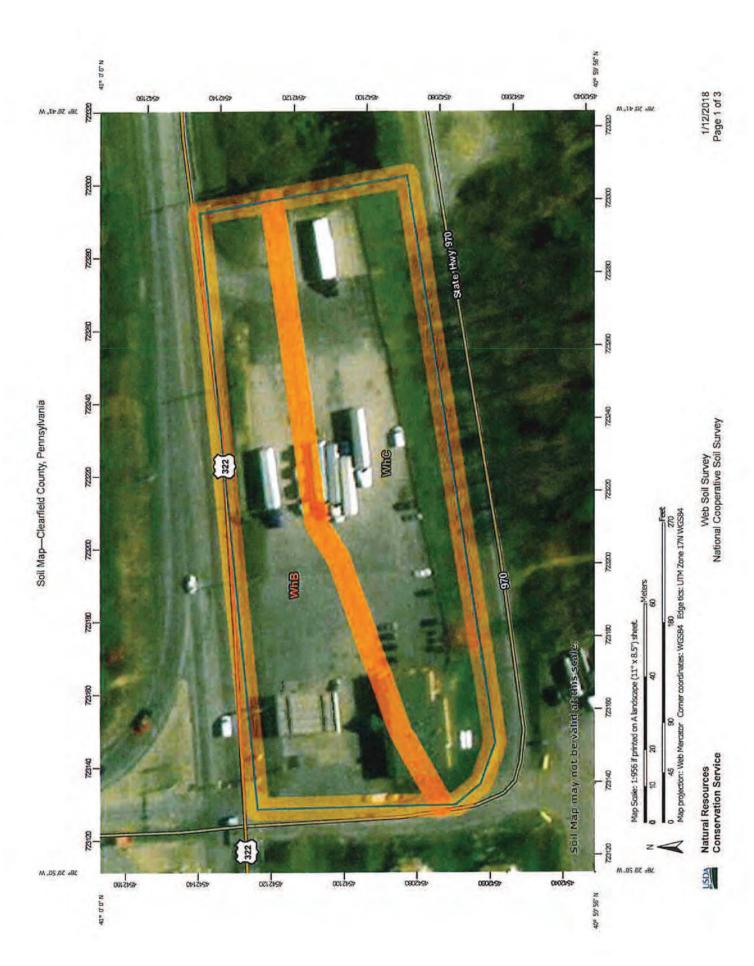
Geophysical investigations are a non-invasive method of interpreting physical properties of the shallow earth using electrical, electromagnetic, or mechanical energy. This document contains geophysical interpretations of responses to induced or realworld phenomena. As such, the measured phenomenon may be impacted by variables not readily identified in the field that can result in a false-positive and/or false-negative interpretation. THG makes no representations or warranties as to the accuracy of the interpretations.











MAP LEGEND

Area of In	Area of Interest (AOI)	W	Spoil Area
	Area of Interest (AOI)	0	Stony Spot
Soils	Soil Man Hoit Dolynone	8	Very Stony Spot
11	Soil Map Unit Lines	Đ	Wet Spot
1	Soil Map Unit Points	O	Other
			Special Line Feat
opecia	Special Point Features	Window Prophenson	*******

atures



Clay Spot

Blowout

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at

Warning: Soil Map may not be valid at this scale

contrasting soils that could have been shown at a more detailed misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of Enlargement of maps beyond the scale of mapping can cause

Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Coordinate System: Web Mercator (EPSG:3857) Web Soil Survey URL:

distance and area. A projection that preserves area, such as the Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Clearfield County, Pennsylvania Survey Area Data: Version 14, Nov 27, 2017

Miscellaneous Water

Mine or Quarry

Landfill

Perennial Water

Rock Outcrop

Saline Spot

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Jul 29, 2011—Nov

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Severely Eroded Spot

Slide or Slip

Sinkhole

Sodic Spot

Sandy Spot

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
WhB	Wharton silt loam, 3 to 8 percent slopes	1.2	45.5%
WhC	Wharton silt loam, 8 to 15 percent slopes	1.4	54.5%
Totals for Area of Interest		2.6	100.0%



APPENDIX M
GEOPHYSICAL SURVEY REPORT

October 10, 2018

Jason Haney Mountain Research 825 25th Street Altoona, Pennsylvania 16601 (814) 949-2034 GEOPHYSICS

RE: Geophysical Survey

Gio's BBQ Route 322 & 970

Woodland, Pennsylvania THG Project No. 213-6954

Dear Mr. Haney:

THG Geophysics, Ltd. (THG) conducted a geophysical investigation to identify potential fractures that could be dominating preferential pathways of groundwater flow at the Gio's BBQ property located in Woodland, Pennsylvania on September 18-19, 2018 (Figure 1). THG performed an electrical resistivity imaging and a very-low frequency electromagnetic (VLF) survey to image potential fractures in the subsurface of the 0.6-acre area of interest at the property.

Five electrical imaging profiles and five VLF profiles were acquired across and adjacent to the gas station property (Figure 2).

Electrical Imaging Survey

Electrical resistance is based upon Ohm's Law, where resistance is equal to the difference between the current flow and voltage differential. However, resistivity depends upon the bulk property and geometry of the material. Consequently, resistivity is measured in Ohm-meters. Currents are carried through earth materials by motion of the ions in connate water. Ions in connate water come from the dissociation of salts and provide for the flow of electric current. Further, resistivity decreases in water-bearing rocks and earth materials with increasing:

- a. Fractional volume of the rock occupied by groundwater;
- Total dissolved solid and chloride content of the groundwater;
- Permeability of the pore spaces; and,
- d. Temperature.

Materials with minimal primary pore space (i.e., limestone) or that lack groundwater in the pore spaces will exhibit high resistivity values (Mooney, 1980). Highly porous, moist or saturated soil, such as fat clays, will exhibit very low resistivity values. Most earthen materials show medium to low resistivity.

In homogeneous ground, the apparent resistivity is the true ground resistivity; however, in heterogeneous ground, the apparent resistivity represents a weighted average of all formations through which the current passes. Many electrode placements (arrays) have been proposed (for examples, see Reynolds, 1997); however, the Schlumberger array has proven to be an effective configuration for imaging voids in shallow bedrock settings.

A forward modeling subroutine was used to calculate the apparent resistivity values using the EarthImager program (AGI, 2008, and Loke 1998). This program is based upon the smoothness-

J. Haney October 10, 2018 Page 2

constrained least-squares method (deGroot-Hedlin and Constable, 1990; Loke and Barker, 1996). The EarthImager program divides the subsurface 2-D space into a number of rectangular blocks. Resistivities of each block are then calculated to produce an apparent resistivity pseudosection. The pseudosection is compared to the actual measurements for consistency. A measure of the difference is given by the root-mean-squared error.

Five EI profiles were collected using a GF Instruments ARES continuous vertical electric sounder (Figure 2). EI Profiles 1 and 2 were acquired to image the primary area of concern. EI Profile 1, oriented northeast to southwest, is 226 feet long (Figure 3). EI Profile 2, oriented northwest to southeast, is 226 feet long (Figure 4). These profiles intersect east of MW-2. EI Profiles 3, 4 & 5 were acquired to assess the perimeter of the project site. EI Profile 3, oriented north to south, is 226 feet long and was acquired along the western site boundary (Figure 5). EI Profile 4, oriented west to east, is 305 feet long and was acquired along the northern site boundary (Figure 6). EI Profile 5, oriented west to east, is 305 feet long and was acquired along the southern site boundary (Figure 7).

All profiles were collected using a 3-meter Schlumberger array. Due to the congestion of subsurface utilities and subsurface structures, the EI data quality was good to poor. The presence of subsurface utilities had a strong negative impact on the data quality of Profiles 2 and 3. Locational data were recorded using a Trimble Geo7X global positioning system.

Very Low Frequency Electromagnetic Survey

The VLF method can be used to find steeply dipping structures that differ from their surroundings with regard to electrical resistance. VLF transmitters, the nearest located in Cutler, Maine, send out low frequency military radio signals (15-30 kHz). When the low frequency field emitted by one of the transmitters strikes an anomaly, secondary currents are created that can be read and recorded by the WADI VLF instrument.

When a field emitted by a transmitter strikes a body having low electrical resistance, secondary circuits are created in the body. Fraser filtering, a numeric algorithm is performed on the real part of the VLF data to enhance the anomaly indication. Fraser filtering is based upon the work of Karous and Hjelt (1983):

$$F_0 = -0.102 H_{-3} + 0.059 H_{-2} - 0.561 H_{-1} + H_0 + 0.561 H_1 - 0.059 H_2 + 0.102 H_3$$

Where; Fo is the filtered result and H-3 to H3 are the original VLF data.

Five VLF profiles were collected using an ABEM WADI instrument (Figure 2). VLF Profiles 1 3, & 5 were acquired south to north to image the width of the project site (Figure 8). VLF Profiles 2 & 4 were acquired west to east along the north and south perimeter (Figure 9).

In addition to fractures, anomalies can be generated by cultural sources. For example, cables, metal pipes, and electrical fences can also cause very strong anomalies. Due to the congestion of subsurface utilities and subsurface structures, the VLF data quality is poor.

Summary:

Numerous anomalies were identified in the comprehensive datasets. Potential fractures are identified in El Profiles 1 & 4 (Figures 3 & 6). El Profile 2 is dominated by low resistivity subsurface that could be due to previous excavations, but also depicts some indications of fracturing (Figure 4). El Profile 3

J. Haney October 10, 2018 Page 3

appears to be impacted by subsurface water utilities (Figure 5). As expected, the VLF data are strongly dominated by cultural noise, but some interpretable fractures are identified on VLF Profiles 2 & 4 (Figures 8-9). The compilation of these interpretations yielded three northeast trending fractures (Figure 10).

Should you have any questions or require additional information, please contact our office at (724) 325-3996 or via e-mail ksm@thggeophysics.com.

Respectfully,

THG Geophysics, Ltd.

Kate McKinley, PG Senior Geophysicist

Enclosures

Geophysical investigations are a non-invasive method of interpreting physical properties of the shallow earth using electrical, electromagnetic, or mechanical energy. This document contains geophysical interpretations of responses to induced or real-world phenomena. As such, the measured phenomenon may be impacted by variables not readily identified in the field that can result in a false-positive and/or false-negative interpretation. THG makes no representations or warranties as to the accuracy of the interpretations.

J. Haney October 10, 2018 Page 4

References

AGI, 2002. EarthImager Program. American Geosciences Inc., Austin Texas.

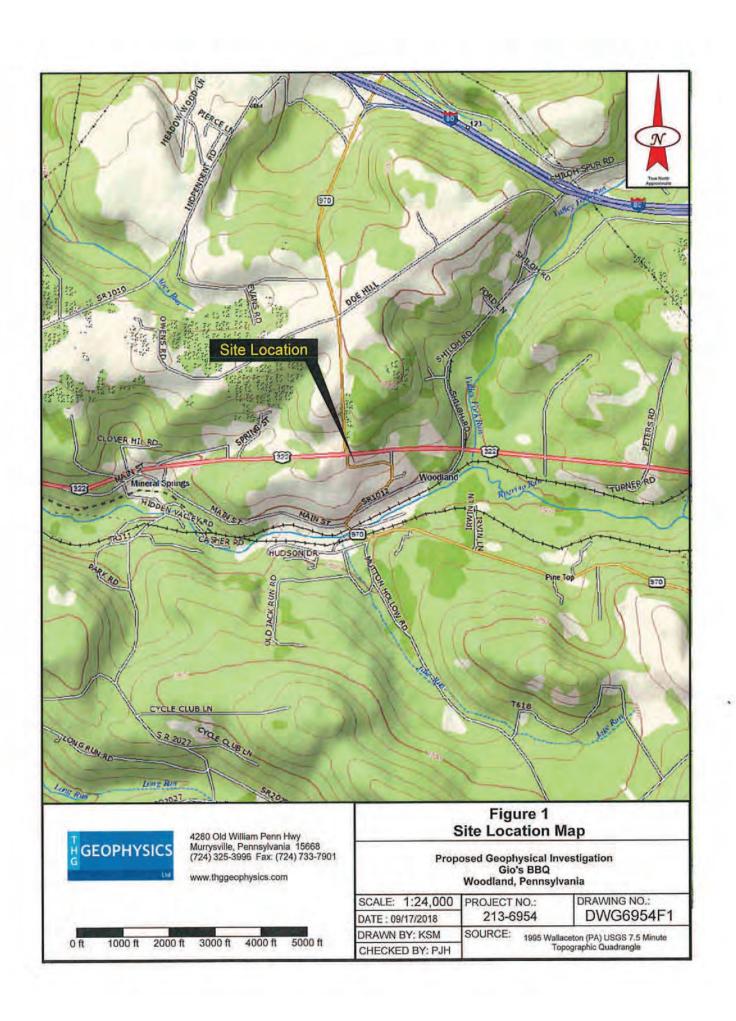
deGroot-Hedlin, C. and Constable, S., 1990, Occam's inversion to generate smooth, two-dimensional models from magnetotelluric data. Geophysics, V. 55, 1613-1624.

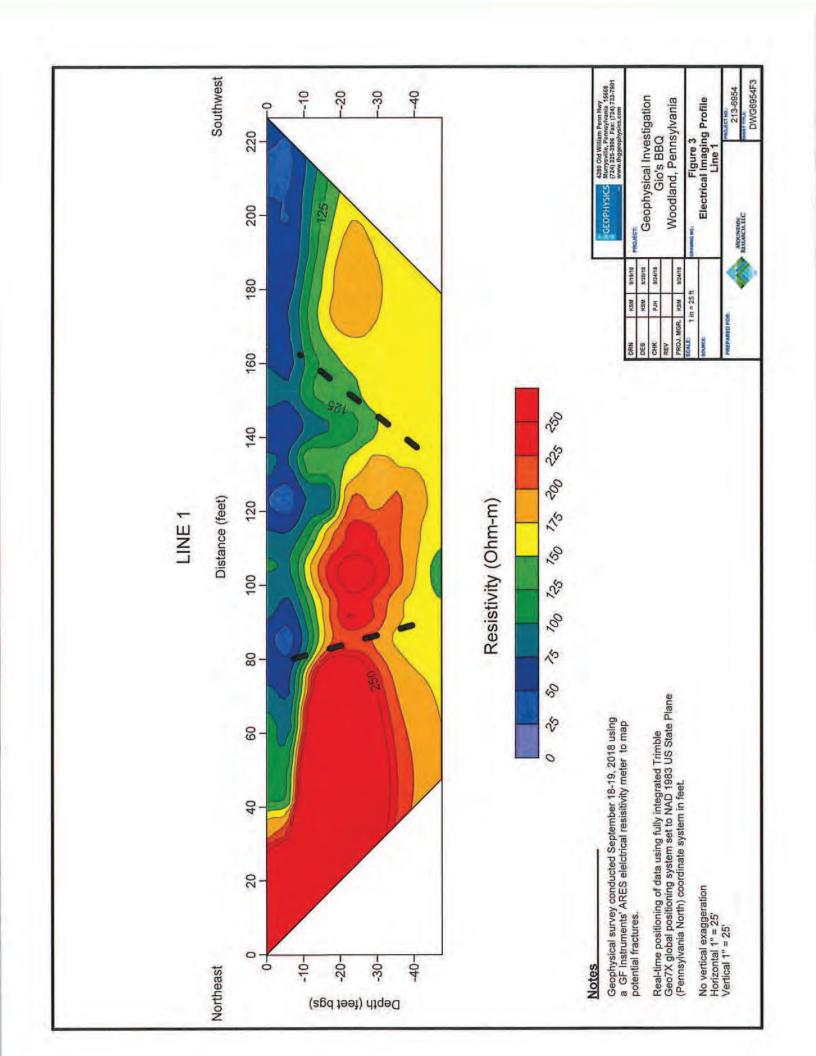
Karous and Hjelt (1983) Linear filtering of VLF dip-angle measurements: Geophysical Prospecting, v. 31, p. 782-794.

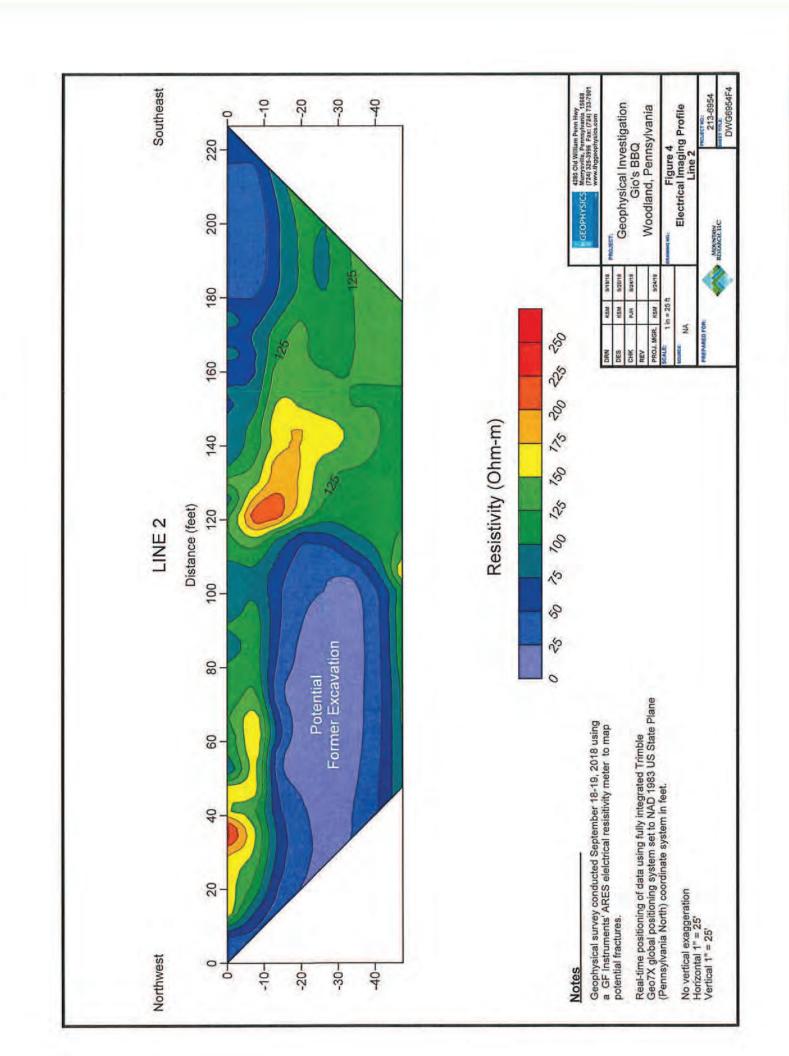
Loke, M. N., and Barker, R. D., 1996, Rapid least-squares inversion of apparent resistivity pseudosection by quasi-Newton method. Geophysical Prospecting, V. 44, 131-152.

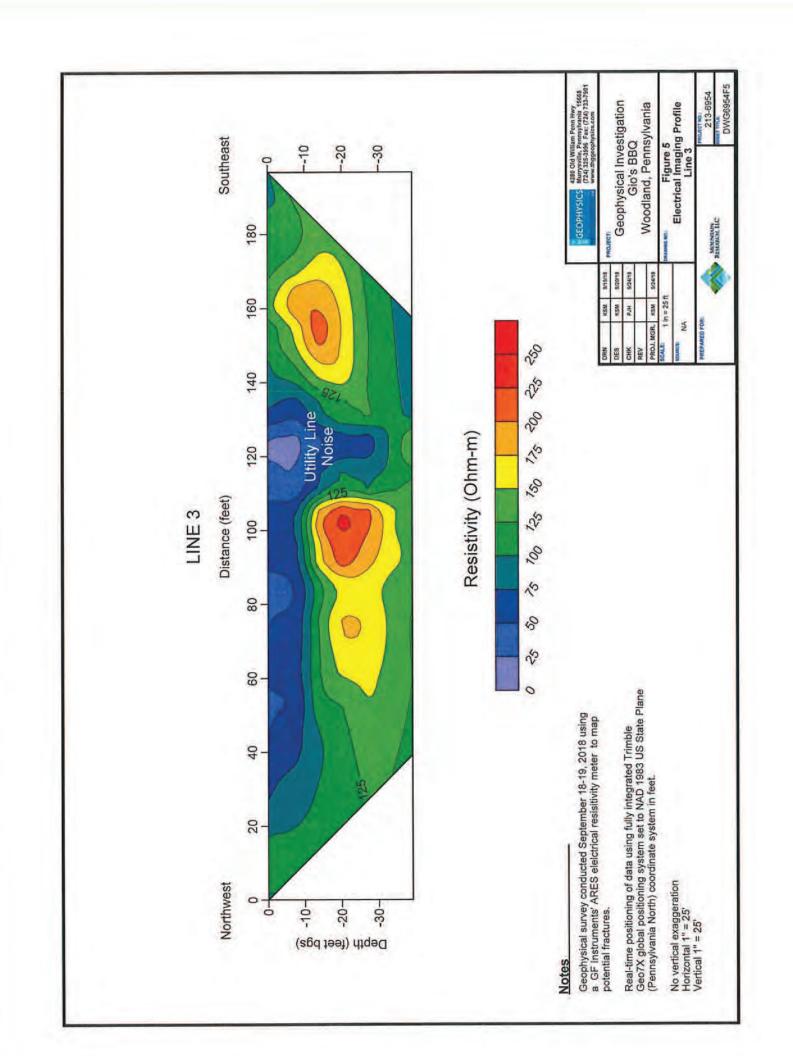
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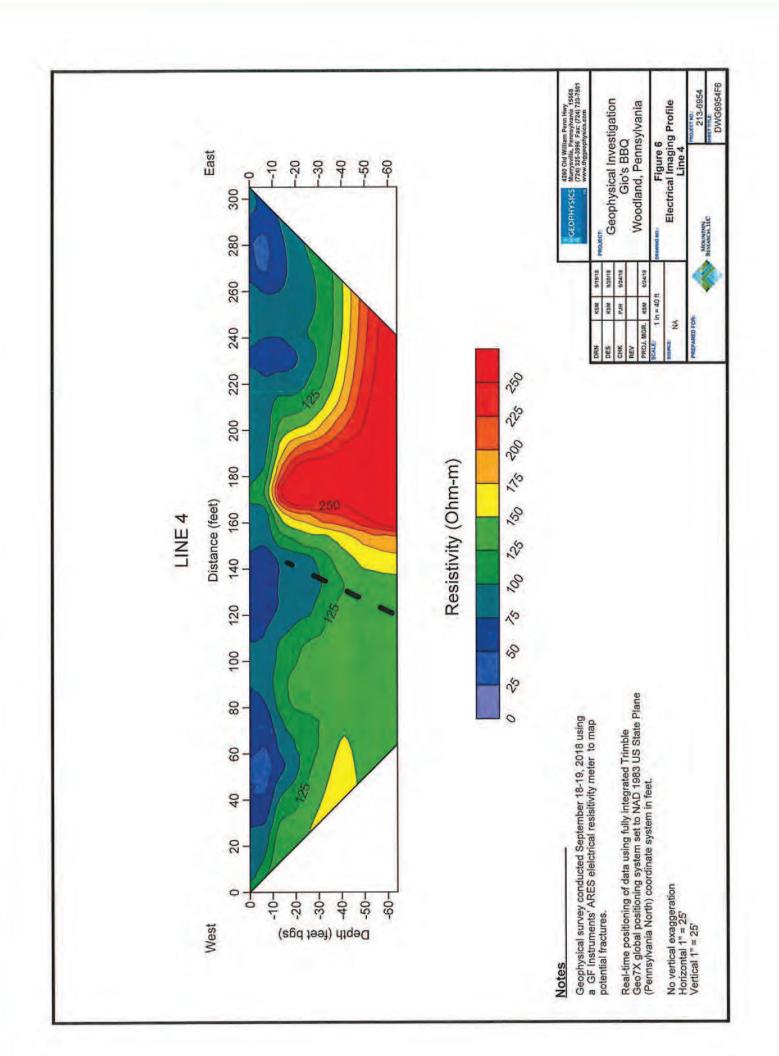
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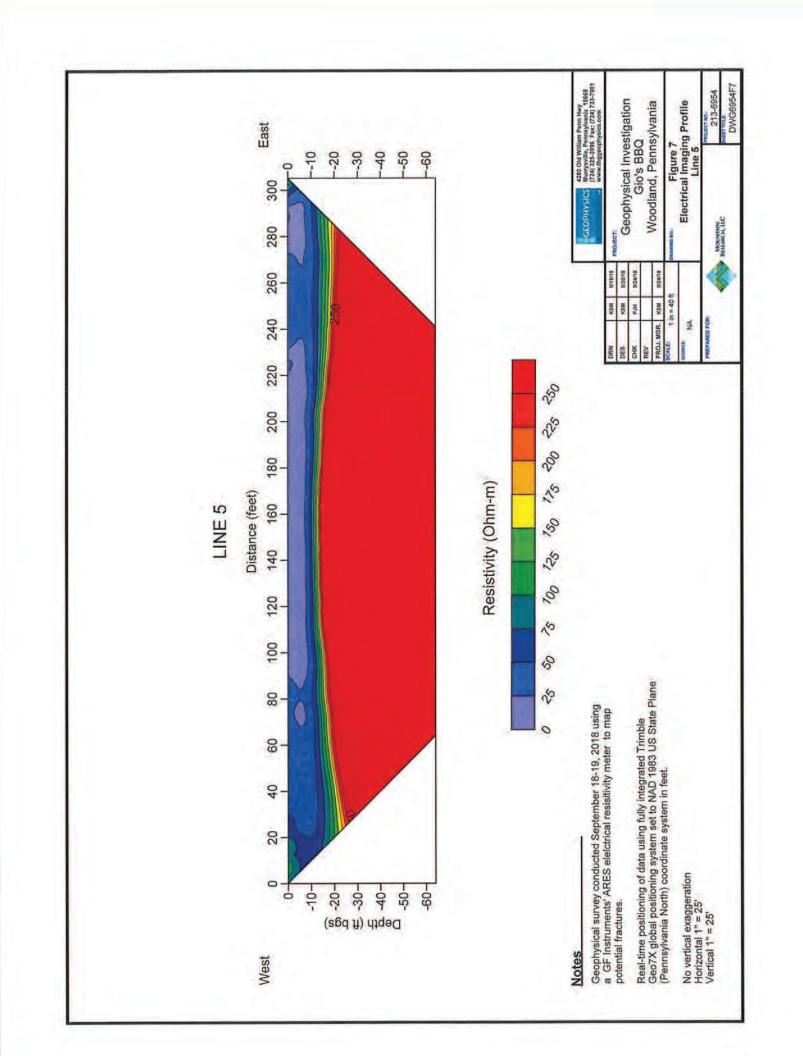
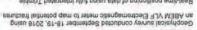
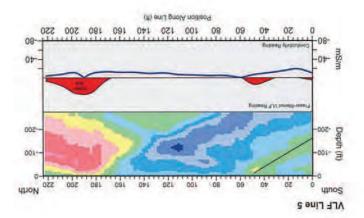
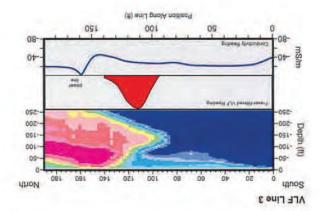


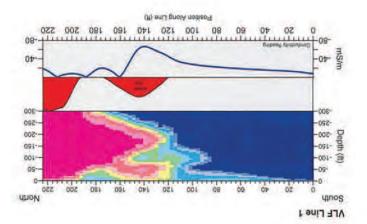
Figure 8 VLF - Lines 1, 5 & 3 Real-time positioning to the provided the seal-time set of principles of the set of the Geophysical Investigation Gio's BBQ Woodland, Pennsylvania

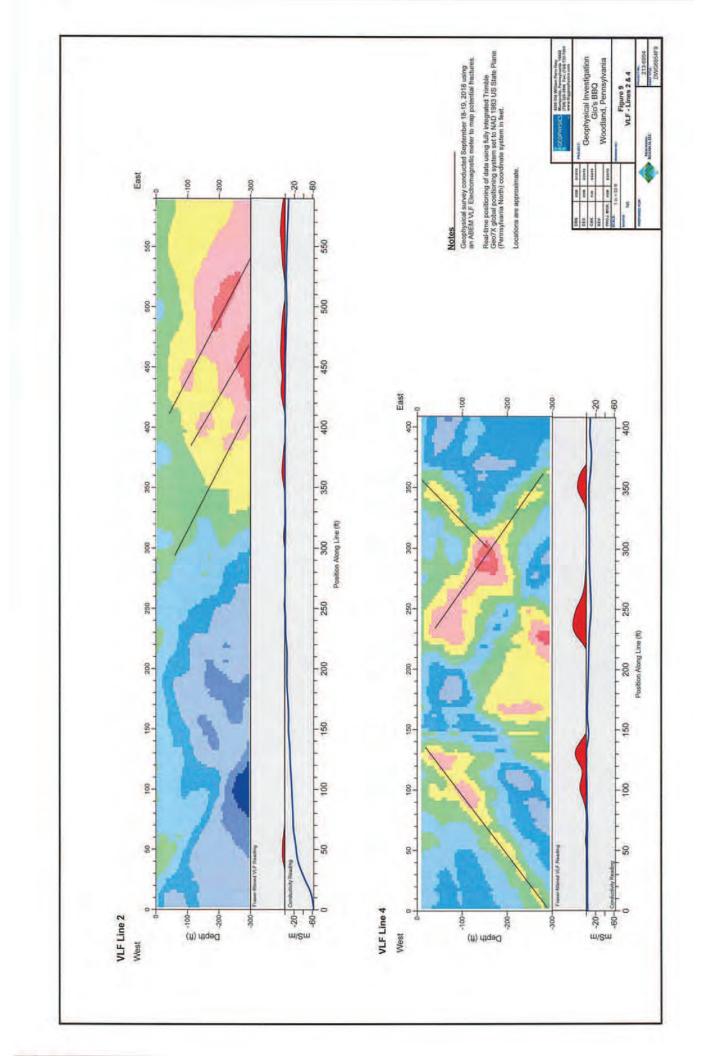
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Corporate Office and Laboratory 825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Lab ID #: 8010569

01 February 2018

Dave Panasiti Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland, PA 16881

RE: Woodland, PA

Enclosed are the results of analyses for samples received by the laboratory on 01/19/18 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe

Assistant Laboratory Manager

Stephen Dange

Authorized Reviewer



Corporate Office and Laboratory 825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8010569 Reported: 02/01/18 13:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Disposal	8010569-01	Solid	Grab	01/19/18 16:00	01/19/18 16:30

Mountain Research, LLC

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.

Stephen Dampe



Corporate Office and Laboratory 825 25th Street Altoona, PA 16601 814,949,2034 Phone 800,837,4674 Toll Free 814,949,9591 Fax DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8010569 Reported: 02/01/18 13:46

Disposal

8010569-01 (Solid) Sampled: 01/19/18 16:00

Analyte	Result	RL	Units	Prepared	Analyz	ed Prep M	lethod Method	Lab	Analyst	Notes
			Mountain F	Research, LLC						
General Chemistry					1.0000		ED1 1020		n or	
Ignitability	Does Not Ignite	NA	Det./ND	01/25/18 12:45	01/25/18		EPA 1030	A	JMK	
Total Solids	93.4	1.00	wt%	01/22/18 15:30	01/22/18	15:30	SM(22) 2540 G-1997	A	STG	
Petroleum Hydrocarbons by GC/FID	1040	24		01/01/00 10/05	01/27/18	00:15 EPA 3	550B EPA 8015 B	A	JSA	
Diesel Range Organics	<8.91	8.91	mg/Kg dry	01/24/18 10:25		Land of the same of	A CONTRACTOR OF THE PARTY OF TH		307	
Surrogate: O-terphenyl		77.1 %	12.1-212.3	01/24/1	8 10:25	01/27/18 00:15	EPA 8015 B			
Volatile Organic Compounds by GC/MS					-	10.00 Cal	ED1 6260 D	7	201	
Benzene	<214	214	μg/Kg dry	01/22/18 18:44	01/22/18	4000	5035 EPA 8260 B		JSA	-
BTEX, Total	<1280	1280	μg/Kg dry	01/22/18 18:44	01/22/18	The same of the sa	5035 EPA 8260 B		JSA	CC
Ethylbenzene	<214	214	μg/Kg dry	01/22/18 18:44	01/22/18	7000 E.S.	5035 EPA 8260 B		JSA	
Toluene	<214	214	µg/Kg dry	01/22/18 18:44	01/22/18	18:44 EPA	5035 EPA 8260 B		JSA	
Xylene o	<214	214	μg/Kg dry	01/22/18 18:44	01/22/18	19013	5035 EPA 8260 B		JSA	
Xylene p/m	<428	428	μg/Kg dry	01/22/18 18:44	01/22/18	18:44 EPA	5035 EPA 8260 B		JSA	
Xylenes, Total	<642	642	μg/Kg dry	01/22/18 18:44	01/22/18	18:44 EPA	5035 EPA 8260 B	A	JSA	CC
Surrogate: 1,2-Dichloroethane-d4		98.6 %	80-120	01/22/	18 18:44	01/22/18 18:44	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		95.5%	80-120	01/22/	18 18:44	01/22/18 18:44	EPA 8260 B			
Surrogate: Dibromofluoromethane		105 %	80-120	01/22/	18 18:44	01/22/18 18:44	EPA 8260 B			
					18 18:44	01/22/18 18:44	EPA 8260 B			

Mountain Research, LLC

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Stephen Dample.



Corporate Office and Laboratory 825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratorics 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923,18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8010569 Reported: 02/01/18 13:46

02/01/18 13:46

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2018
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018

Notes and Definitions

CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoons Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
w	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

Mountain Research, LLC

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Stephen Tampe

				38.	arrier. Ind Time:			-			1			16:57	0
				MR PROJ. MGR.	Shipping Carrier: Turn Around Time:	1 Day Comments:		Medi	HOSW	None	None			Log In Time:	Staffe
MOUNTAIN KESEAKCH LL	(814) 94	(814) 37	CHAIN OF CUSTODY RECORD	Analyses Requested		,								Lab Workorder#:	1010564 Labeled By:
VII VII VII VIII VIII	DA 15001	PA 15801	CHAIN OF C	Analyses			AG - HY Dilldiling			×	×			DATECTIME (C. 30	5-18 DATE/TIME
	Dard P. 16601	Koad, Dubois				ОЯ	rex PH - GI		×						7-1
	825 25th Street, Altoona, PA 16601	110 McCracken Kun Koad, Dubois, PA 15801			su	CL CODE		, voa	1-40 mL year	1-4 azjar	1-liter glass			- 4	J
	28		LER(S)	1			Work with		Soil	Soil	Soil			TIME ACCEPTED BY:	TIME ACCEPTED BY:
	Disposal	-	SAMPLER(S)	1			awit	5	×	×	×				1-14-18 4'36,- DATE TIME
THE TOTAL	SITE LOCATION	Woodlan		Level tood			JA JA								
oning Group: Prase:	WR Project #	49.33.18.01	CLIENT	WORKER TON	Received On Ice: Q / N Sample Temp: 4, 7	Comments:	CAMPIFIN	D.5 90391						RELINQUISHED BY:	WAY III

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL WORK ORDER: CLIENT: WOODLAND Fuel DATE SAMPLED: 1 9 5 DATE RECEIVED: 1 9 18 TIME RECEIVED: 16:38 1. CHECK ALL THAT APPLY: PA WY D MD D PWS D NPDES/COMPLIANCE DAIRY D RUSH D 2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES DINO 6 IF YES, EXPLAIN: 3. Number Of Containers Received: 4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES D NO D IF NO, EXPLAIN: 5. RECEIVING TEMP: 4.7°C TEMP CONTROL(S) PRESENT YES D NO D BOTTLE(S) TEMPED: _____ 6. WERE THE SAMPLES PROPERLY PRESERVED? YESO NO D IF NO, EXPLAIN: 7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES NO IF NO, EXPLAIN: 8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES INO IN N/AD 9. WAS THE COC FILLED OUT PROPERLY? YES NO D IF NO, EXPLAIN: 10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES NO [IF NO, EXPLAIN: 11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES DO NO ! IF YES, EXPLAIN: 12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES D NO PLEASE NOTIFY LABORATORY ANALYSTS! IF YES, WHAT ANALYSES? 13. IS SUBCONTRACTING REQUIRED? YES NOW 1/19/16 IF YES, WHAT ANALYSES? GRE 14. WAS THE CLIENT CONTACTED? YES D NO. IF YES, FILL OUT THE FOLLOWING: MR EMPLOYEE INITIALS: CLIENT SPOKEN TO: DATE/TIME: OUTCOME:

SIGNATURE:

L60.30.A r2 Sample Receipt Form

Page 6 of 12

For MR Use Only



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



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Mountain Research LLC

825 25th Street

Altoona PA, 16601

Project Manager:

Steven Gampe

Project:

Subcontract

Project Number:

4923.18.01

CLIENT Collector:

Reported: 01/31/18 10:17

Number of Containers:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
8010569-01	8A22024-01	Solid	Grab	01/19/18 14:00	01/22/18 14:45

Client Sample ID: 8010569-01

Date/Time Sampled: 01/19/18 14:00

Laboratory Sample ID:

8A22024-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	*Analyst	Note
Volatile Petroleum Hydrocarbons by	8015 GRO					T CLIENTAL S		-
Volatile Petroleum Hydrocarbons by Gasoline Range Organics	7 8015 GRO <21.5		21.5	mg/kg dry	01/25/18 15:11	EPA 8015D	bag	

Fairway Laboratories, Inc.

Reviewed and Submitted by:

MAT

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

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825 25th Street

Altoona PA, 16601

Project Manager:

Steven Gampe

Project:

Subcontract

Project Number:

4923.18.01

CLIENT Collector:

Reported: 01/31/18 10:17

Number of Containers:

Definitions

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

State Certifications: MD 275, WV 364

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.
- The following analytes are to be filtered immediately upon sampling: Hexavalent Chromium. Filtration through a 0.45 micron filter within 15 minutes of sampling is required for compliance with the Clean Water Act (CWA) for reporting of hexavalent chromium to prevent interconversion of chromium species.
- P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252
- 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.
- Method Detection Limit is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any MDL reported result values that are less than the RL are considered estimated values.
- Reporting Limit is the lowest or minimum level at which the analyte can be quantified. RL
- Indicates a calculated result. Calculations use results from other analyses performed under accredited methods. [CALC]

Fairway Laboratories, Inc.

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

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



www.fairwaylaboratories.com

Mountain Research LLC

825 25th Street

Altoona PA, 16601

Project Manager:

Steven Gampe

Subcontract Project:

Project Number: 4923.18.01

> CLIENT Collector:

Reported: 01/31/18 10:17

Number of Containers:

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.

State Certifications: MD 275, WV 364

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

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. Samples received at the laboratory after business hours are verified on the next business day. Discrepancies are documented on the Receiving

Unless the client indicates otherwise; this decision will be made by Fairway. SUBCONTRACTING Some analyses may require subcontracting to another laboratory. 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. 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

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, Pairway 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,

Fairway Laboratories, Inc.

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

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SUBCONTRACT ORDER

Mountain Research, LLC

P.O.#24656

8A27024 1017 8010569

SENDING LABORATORY:

Mountain Research, LLC 825 25th Street Altoona, PA 16601

Phone: 814-949-2034 Fax: 814-949-9591

Stephen Gampe Project Manager:

RECEIVING LABORATORY:

Fairway Laboratories, Inc. 2019 9th Avenue Altoona, PA 16602 Phone:(814) 946-4306 Fax: (814) 946-8791

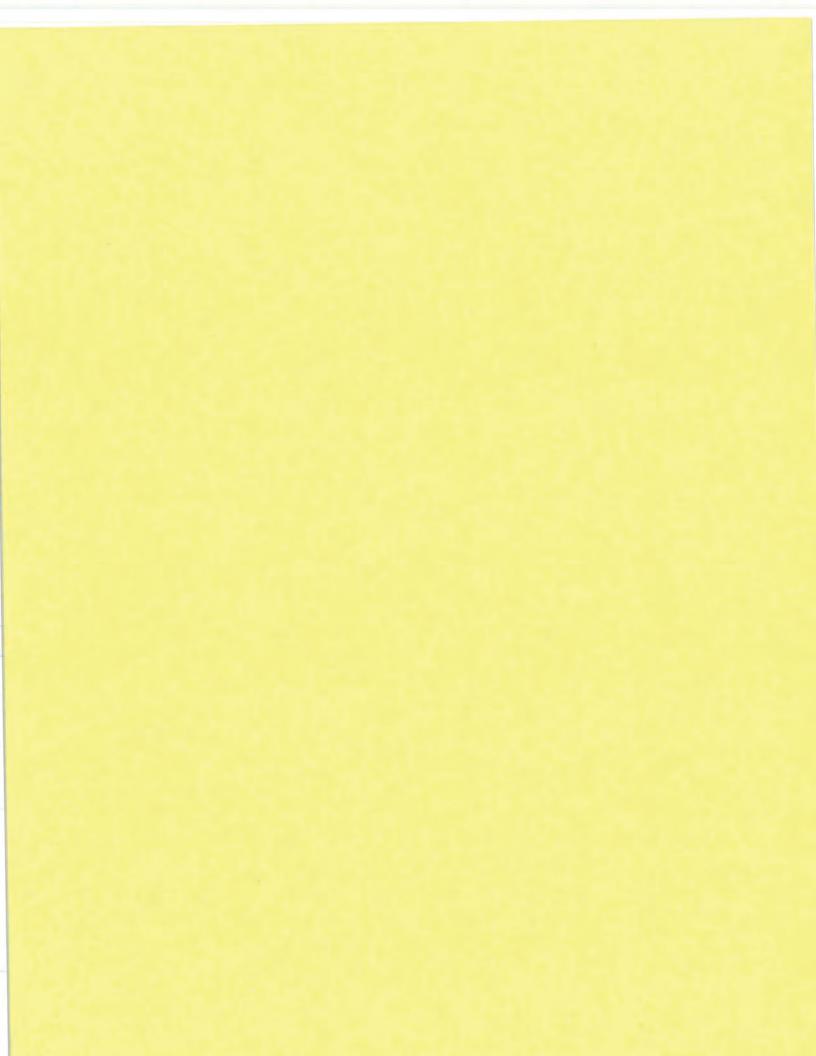
Analysis	Due		Expires	Laboratory ID	Comments
Sample ID: 8010569-01	Solid	Samp	pled:01/19/18 14:00		
GRO_8015 Containers Supplied:	02/02/18	16:00	07/18/18 14:00		

MOUNTAIN RESEARCH, LLC Purchase Order 24656 DATE 1/22/18 DRAFT FAIRWAY LA MOUNTAIN RESEARCH, LLC

825 25th Street
Altoona, PA 16601
PHONE 814-949-2034 EXT 230
FAX 814-949-9591
FAMIL GRAPH RESEARCH, LLC FAIRWAY LABORATORIES, FAIRWAY
INC.
2019 NINTH AVENUE
ALTOONA, PA 16602
PHONE (814) 946-4306
FAX (814) 946-8791
E-MAIL bgartland@fairwaylaboratories.com MOUNTAIN RESEARCH, LLC 825 25th Street Altoona, PA 16601
PHONE 814-949-2034 ext 230
FAX 814-949-9591
E-MAIL ewalters@mountainresearch.com E-MAIL ewalters@mountainresearch.com **EXCESS AMOUNT** EXCESS % ORDER DATE BUYER PAY TERMS **EXCESS RECV** P.O. NUMBER N 30 1/22/18 DeRose, Katherine 24656 AGREEMENT TERMS 2/21/2018 1.00 1 8010569-01 FOR GRO

v7.5.723 (EWALTERS) -

Page 1





DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Lab ID #: 8030331

21 March 2018

Dave Panasiti Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland, PA 16881

RE: Woodland, PA

Enclosed are the results of analyses for samples received by the laboratory on 03/09/18 08:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe

Assistant Laboratory Manager

Stephen Darype

Authorized Reviewer



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030331 Reported: 03/21/18 16:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
SR-3 (13 0) US	8030331-01	Solid	Grab	03/06/18 11:30	03/09/18 08:30

Mountain Research, LLC

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923,18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030331 Reported: 03/21/18 16:02

SB-3 (13.0) US

8030331-01 (Solid) Sampled: 03/06/18 11:30

Analyte	Result	RL	Units	Prepared	Analyze	d Prep Method	Method	Lab	Analyst	Notes
			Mountain F	Research, LLC						
General Chemistry				Non-You about	2272477	246	EL CASE AND	-	proc	
Total Solids	84.5	1.00	wt%	03/15/18 18:00	03/15/18 18	8:00	SM(22) 2540 G-1997	A	STG	
Volatile Organic Compounds by GC/MS					******	and Athlese	and and a	-	11.60	
1,2,4-Trimethylbenzene	15.8	2.37	μg/Kg dry	03/10/18 02:05	03/10/18 03		EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	5.21	2.37	μg/Kg dry	03/10/18 02:05	03/10/18 0		EPA 8260 B	A	JMG	
Benzene	<2.37	2.37	µg/Kg dry	03/10/18 02:05	03/10/18 0		EPA 8260 B	A	JMG	
Ethylbenzene	<2.37	2.37	μg/Kg dry	03/10/18 02:05	03/10/18 0		EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.37	2.37	µg/Kg dry	03/10/18 02:05	03/10/18 0		EPA 8260 B	A	JMG	
MTBE	<2.37	2.37	μg/Kg dry	03/10/18 02:05	03/10/18 0	2:05 EPA 5035	EPA 8260 B	A	JMG	
Naphthalenc	26.0	2.37	μg/Kg dry	03/10/18 02:05	03/10/18 0	2:05 EPA 5035	EPA 8260 B	A	JMG	
Toluene	<2.37	2.37	μg/Kg dry	03/10/18 02:05	03/10/18 0	2:05 EPA 5035	EPA 8260 B	A	JMG	
Xylene o	<2.37	2.37	μg/Kg dry	03/10/18 02:05	03/10/18 0	2:05 EPA 5035	EPA 8260 B	A	JMG	
Xylene p/m	<4.73	4.73	μg/Kg dry	03/10/18 02:05	03/10/18 0	2:05 EPA 5035	EPA 8260 B	A	JMG	
Xylenes, Total	<7.10	7.10	μg/Kg dry	03/10/18 02:05	03/10/18 0	2:05 EPA 5035	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		115 %	80-120	03/10/	18 02:05	03/10/18 02:05 EPA	8260 B			
Surrogate: 4-Bromofluorobenzene		97.1 %	80-120	03/10/	18 02:05	03/10/18 02:05 EPA	8260 B			
Surrogate: Dibromofluoromethane		108 %	80-120	03/10/	18 02:05	03/10/18 02:05 EPA	8260 B			
Surrogate: Toluene-d8		98.7 %	80-120	03/10/	18 02:05	03/10/18 02:05 EPA	8260 B			

Mountain Research, LLC

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030331 Reported: 03/21/18 16:02

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2018
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018

Notes and Definitions

CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
٨	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

Mountain Research, LLC

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Billing Group: Phase:	PROJECT NAME Derilling	AME 19			825 25th Street, Altoona, PA 16601	t, Altoona, I	A 16601	MOUNT	MOUNTAIN RESEARCH LLA		
MR Project # 16.01	SITE LOCATION WOULD	Col PA			110 McCracken Run Road, Dubois, PA 15801	n Run Road	í, Dubois	, PA 15801	(814) 371-6030 Fax		
CLIENT			SAMPLER(S)	ER(S)				CHAIN	CHAIN OF CUSTODY RECORD		
woodling The as	100d tood		AK					Anal	Analyses Requested	MR PROJ. MGR.	GR. 62
Received On Ice (\$\mathcal{V}_{\infty} \) N	\				******					Shipping Carrier	Sarrier;
Sample Temp	\									Tum Aro	Turn Around Time:
#WSfD#					SHE					10 Day	1
Seal in Tack Y 1 N					NIATV			P		1 Day	
1 E					OE COI	CODE	80	1185		Comments:	ES:
Comments					чвев (DOCL	מאר	5 0			
SAMPLE ID,NO.	DATE	TIME	GRAB	COMP MATRIX		ояа		1/8		Preserve	LABNUMBER
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			7				15				
				1							
RELINQUISHED BY:		A 1 4 4 1	FIME S. Your	S. Dan ACCEPTED 8 .:	Ren		3-5	3-5-(7-67.30	Lab WO#: \$030 331	Log In Time: Staff:	1325
RELINQUISHED BY:		DATE	TIME	TIME ACCEPTED BY:			,q	NTE TIME	Labeled By:		2112119

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

DATE RECEIVED: 3/9/18 TIME RECEIVED: 0830 DATE SAMPLED: 1. CHECK ALL THAT APPLY: PAG WV D MD D P W S D NPDES/COMPLIANCE DAIRY D RUSH D 2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES DINO IF YES, EXPLAIN: 3. NUMBER OF CONTAINERS RECEIVED: 5 4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES NO I IF NO, EXPLAIN: 5. RECEIVING TEMPS. 2 °C TEMP CONTROL(S) PRESENT YES | NO | BOTTLE(S) TEMPED: 6. WERE THE SAMPLES PROPERLY PRESERVED? YES □ NO □ IF NO, EXPLAIN: 7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES NO IF NO, EXPLAIN: 8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES NO N/AD 9. WAS THE COC FILLED OUT PROPERLY? YES NO [IF NO, EXPLAIN: 10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES NO ... IF NO, EXPLAIN: 11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES IN NO. IF YES, EXPLAIN: 12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES D NO 6 IF YES, WHAT ANALYSES? PLEASE NOTIFY LABORATORY ANALYSTS! 13. IS SUBCONTRACTING REQUIRED? YES IN NO. IF YES, WHAT ANALYSES? 14. WAS THE CLIENT CONTACTED? YES D NO. IF YES, FILL OUT THE FOLLOWING: CLIENT SPOKEN TO: DATE/TIME: MR EMPLOYEE INITIALS: OUTCOME: SIGNATURE: For MR Use Only L60.30.A r2 Sample Receipt Form

Page 6 of 6





DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Lab ID #: 8030327

21 March 2018

Dave Panasiti Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland, PA 16881

RE: Woodland, PA

Enclosed are the results of analyses for samples received by the laboratory on 03/09/18 14:26. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe

Assistant Laboratory Manager

Stephen Dample.

Authorized Reviewer



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030327 Reported: 03/21/18 15:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
SB-7 (15.0 u)	8030327-01	Solid	Grab	03/08/18 11:30	03/09/18 14:26
SB-7 (18.5 u)	8030327-02	Solid	Grab	03/08/18 11:30	03/09/18 14:26
SB-8 (9.5 u)	8030327-03	Solid	Grab	03/08/18 13:15	03/09/18 14:26
SB-8 (12.0 u)	8030327-04	Solid	Grab	03/08/18 13:15	03/09/18 14:26
SB-9 (6.5 u)	8030327-05	Solid	Grab	03/08/18 16:40	03/09/18 14:26
SB-9 (11.5 u)	8030327-06	Solid	Grab	03/08/18 16:40	03/09/18 14:26
SB-10 (5.0 u)	8030327-07	Solid	Grab	03/09/18 11:45	03/09/18 14:26
Trip Blank	8030327-08	Aqueous	Grab	03/08/18 06:30	03/09/18 14:26
Equipment Blank	8030327-09	Aqueous	Grab	03/08/18 10:00	03/09/18 14:26
Blind Duplicate	8030327-10	Solid	Grab	03/08/18 00:00	03/09/18 14:26

Mountain Research, LLC

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Starker Course Assistant Laboratory Manag



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8030327 Reported: 03/21/18 15:59

SB-7 (15.0 u)

8030327-01 (Solid) Sampled: 03/08/18 11:30

Analyte	Result	RL	Units	Prepared	Analyz	ed P	rep Method	Method	Lab	Analyst	Notes
			Mountain F	Research, LLC							
General Chemistry					2000000000	200		New Yorks N	-	- 200	_
Fotal Solids	92.4	1.00	wt%	03/15/18 18:00	03/15/18 1	18:00		SM(22) 2540 G-1997	A	STG	
Volatile Organic Compounds by GC/MS											01
1,2,4-Trimethylbenzene	813	217	μg/Kg dry	03/12/18 17:44	03/13/18	19:31	EPA 5035	EPA 8260 B	A	JMG	
1.3.5-Trimethylbenzene	235	217	μg/Kg dry	03/12/18 17:44	03/13/18	19:31	EPA 5035	EPA 8260 B	A	JMG	
Benzene	1580	217	μg/Kg dry	03/12/18 17:44	03/13/18	19:31	EPA 5035	EPA 8260 B	A	JMG	
Ethylbenzene	850	217	µg/Kg dry	03/12/18 17:44	03/13/18	19:31	EPA 5035	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	229	217	μg/Kg dry	03/12/18 17:44	03/13/18	19:31	EPA 5035	EPA 8260 B	A	JMG	
MTBE	<2.17	2.17	μg/Kg dry	03/12/18 17:44	03/12/18	17:44	EPA 5035	EPA 8260 B	A	JMG	
	224	217	μg/Kg dry	03/12/18 17:44	03/13/18	19:31	EPA 5035	EPA 8260 B	A	JMG	
Naphthalene Toluene	6360	217	μg/Kg dry	03/12/18 17:44	03/13/18	19:31	EPA 5035	EPA 8260 B	A	JMG	
	1390	217	μg/Kg dry	03/12/18 17:44	03/13/18	19:31	EPA 5035	EPA 8260 B	A	JMG	
Xylene o	3300	433	μg/Kg dry	03/12/18 17:44	03/13/18	19:31	EPA 5035	EPA 8260 B	A	JMG	
Xylene p/m	4690	650	μg/Kg dry	03/12/18 17:44	03/13/18	19:31	EPA 5035	EPA 8260 B	A	JMG	CC
Xylenes, Total	-	105 %	80-120	03/12/	18 17:44	03/12/18 17	:44 EPA 82	60 B			
Surrogate: 1,2-Dichloroethane-d4		95,8 %	80-120	03/12/	18 17:44	03/12/18 17	:44 EPA 82	60 B			
Surrogate: 4-Bromofluorobenzene		111 %	80-120		18 17:44	03/12/18 17	:44 EPA 82	60 B			
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8		93.8 %	80-120	1201723	18 17:44	03/12/18 17		60 B			

Mountain Research, LLC

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030327 Reported: 03/21/18 15:59

SB-7 (18.5 u)

8030327-02 (Solid) Sampled: 03/08/18 11:30

Analyte	Result	RL	Units	Prepared	Analyzed	Prep M	ethod Method	Lab	Analys	Note
			Mountain F	tesearch, LLC						
General Chemistry				mine district			21 Links was		STG	_
Total Solids	93.7	1.00	wt%	03/15/18 18:00	03/15/18 18:0	00	SM(22) 254 G-1997	0 A	510	
Volatile Organic Compounds by GC/MS										01
1,2,4-Trimethylbenzene	<2.13	2.13	μg/Kg dry	03/13/18 16:27	03/13/18 16:	27 EPA :			JMG	
1,3,5-Trimethylbenzene	<2.13	2.13	μg/Kg dry	03/13/18 16:27	03/13/18 16:	27 EPA:	5035 EPA 8260 E	3 A	JMG	
Benzene	<2.13	2.13	µg/Kg dry	03/13/18 16:27	03/13/18 16:	27 EPA	5035 EPA 8260 I	3 A	JMG	
Ethylbenzene	<2.13	2.13	µg/Kg dry	03/13/18 16:27	03/13/18 16:	27 EPA:	5035 EPA 8260 I	3 A	JMG	
Isopropylbenzene (Cumene)	<2.13	2.13	µg/Kg dry	03/13/18 16:27	03/13/18 16:	27 EPA	5035 EPA 8260 I	3 A	JMG	
мтве	11.1	2.13	µg/Kg dry	03/13/18 16:27	03/13/18 16:	27 EPA			JMG	
Naphthalene	<2.13	2.13	μg/Kg dry	03/13/18 16:27	03/13/18 16:	27 EPA			1	
Toluene	<2,13	2.13	µg/Kg dry	03/13/18 16:27	03/13/18 16:	27 EPA			IMG	
Xylene o	<2.13	2.13	μg/Kg dry	03/13/18 16:27	03/13/18 16:	27 EPA			JMG	
Xylene p/m	<4.27	4.27	μg/Kg dry	03/13/18 16:27	03/13/18 16:	27 EPA			JMG	
Xylenes, Total	<6.40	6.40	µg/Kg dry	03/13/18 16:27	03/13/18 16:	27 EPA	5035 EPA 8260 I	3 A	JMG	C
Surrogate: 1,2-Dichloroethane-d4		106 %	80-120	03/13/	18 16:27 03	1/13/18 16:27	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		99.1 %	80-120	03/13/	18 16:27 03	3/13/18 16:27	EPA 8260 B			
Surrogate: Dibromofluoromethane		113 %	80-120	03/13/	18 16:27 03	3/13/18 16:27	EPA 8260 B			
Surrogate: Toluene-d8		97.7 %	80-120	03/13/	78 16:27 03	3/13/18 16:27	EPA 8260 B			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8030327 Reported: 03/21/18 15:59

SB-8 (9.5 u)

8030327-03 (Solid) Sampled: 03/08/18 13:15

Analyte	Result	RL.	Units	Prepared	Analyzo	ed Prep	Method	Method	Lab	Analyst	Notes
			Mountain R	tesearch, LLC							
General Chemistry										PTC	
Total Solids	92.9	1.00	wt%	03/15/18 18:00	03/15/18 1	8:00		G-1997	A	STG	
Volatile Organic Compounds by GC/MS					Tarana .		200		-	n.10	
1,2,4-Trimethylbenzene	15.3	2.15	μg/Kg dry	03/12/18 18:40	03/12/18 1			EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	4.35	2.15	μg/Kg dry	03/12/18 18:40	03/12/18 1	Total Control of the		EPA 8260 B	A	JMG	
Benzene	22.5	2.15	µg/Kg dry	03/12/18 18:40	03/12/18 1	Mark and the	122	EPA 8260 B	A	IMG	
Ethylbenzene	17.1	2.15	μg/Kg dry	03/12/18 18:40	03/12/18			EPA 8260 B		JMG	
Isopropylbenzene (Cumene)	<2.15	2.15	µg/Kg dry	03/12/18 18:40	03/12/18	18:40 EP.	122402	EPA 8260 B	A	JMG	
мтве	<2.15	2.15	µg/Kg dry	03/12/18 18:40	03/12/18	18:40 EP.	A 5035	EPA 8260 B	A	JMG	
Naphthalene	9.66	2.15	µg/Kg dry	03/12/18 18:40	03/12/18	18:40 EP	A 5035	EPA 8260 B	A	IMG	
Toluene	560	215	μg/Kg dry	03/12/18 18:40	03/13/18	18:39 EP	A 5035	EPA 8260 B	A	JMG	
Xylene o	38.0	2.15	μg/Kg dry	03/12/18 18:40	03/12/18	18:40 EP	A 5035	EPA 8260 B	A	JMG	
	86.9	4.31	μg/Kg dry	03/12/18 18:40	03/12/18	18:40 EP	A 5035	EPA 8260 B	A	JMG	
Xylene p/m	125	6.46	μg/Kg dry	03/12/18 18:40	03/12/18	18:40 EP	A 5035	EPA 8260 B	A	JMG	CC
Xylenes, Total Surrogate: 1,2-Dichloroethane-d4	400	108 %	80-120	03/12/1	8 18:40	03/12/18 18:40	EPA 8260 I	3			
Surrogate: 1,2-Dichiorobenzene Surrogate: 4-Bromofluorobenzene		100 %	80-120	03/12/1	8 18:40	03/12/18 18:40	EPA 8260 I	3			
The state of the s		116%	80-120	03/12/1	8 18:40	03/12/18 18:40	EPA 8260 I	В			
Surrogate: Dibromofluoromethane		97.6 %	80-120	03/12/1	18 18:40	03/12/18 18:40	EPA 8260 I	В			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923,18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030327 Reported: 03/21/18 15:59

SB-8 (12.0 u)

8030327-04 (Solid) Sampled: 03/08/18 13:15

Analyte	Result	RL	Units	Prepared	Analy	zed	Prep Met	thod Method	Lab	Analyst	Notes
			Mountain R	tesearch, LLC							
General Chemistry					-			W 1100 0710		STG	_
Total Solids	95.8	1.00	wt%	03/15/18 18:00	03/15/18	18:00		SM(22) 2540 G-1997	A	210	
Volatile Organic Compounds by GC/MS											01_
1.2,4-Trimethylbenzene	1260	209	μg/Kg dry	03/12/18 19:07	03/13/18	19:05	EPA 50)35 EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	41.8	2.09	μg/Kg dry	03/12/18 19:07	03/12/18	19:07	EPA 50	035 EPA 8260 B	A	JMG	
	44.0	2.09	µg/Kg dry	03/12/18 19:07	03/12/18	3 19:07	EPA 50	035 EPA 8260 B	A	JMG	
Benzene	57.5	2.09	µg/Kg dry	03/12/18 19:07	03/12/18	3 19:07	EPA 50	035 EPA 8260 B	A	JMG	
Ethylbenzene (Company)	13.4	2.09	μg/Kg dry	03/12/18 19:07	03/12/18	3 19:07	EPA 50	035 EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.09	2.09	µg/Kg dry	03/12/18 19:07	03/12/18	8 19:07	EPA 50	035 EPA 8260 B	A	JMG	
MTBE	15.6	2.09	μg/Kg dry	03/12/18 19:07	03/12/18	8 19:07	EPA 50	035 EPA 8260 B	A	JMG	
Naphthalene	1870	209	μg/Kg dry	03/12/18 19:07	03/13/11	8 19:05	EPA 50	035 EPA 8260 B	A	JMG	
Toluene		209	μg/Kg dry	03/12/18 19:07	03/13/13	8 19:05	EPA 5	035 EPA 8260 B	A	JMG	
Xylene o	801	418	μg/Kg dry	03/12/18 19:07	03/13/11	8 19:05	EPA 5	035 EPA 8260 B	A	JMG	
Xylene p/m	1820		M. W. Carlot	03/12/18 19:07	03/13/1	8 19:05	EPA 5	035 EPA 8260 B	A	IMG	CC
Xylenes, Total	2620	626	μg/Kg dry		18 19:07	03/12/18		EPA 8260 B			
Surrogate: 1,2-Dichloroethane-d4		105 %	80-120			1000		EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		98.2 %	80-120	444	18 19:07	03/12/18					
Surrogate: Dibromofluoromethane		115 %	80-120	-	18 19:07	03/12/18		EPA 8260 B			
Surrogate: Toluene-d8		98.1%	80-120	03/12/	18 19:07	03/12/18	19:07	EPA 8260 B			

Mountain Research, LLC

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Stephen Dample



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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923,18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030327 Reported: 03/21/18 15:59

SB-9 (6.5 u)

8030327-05 (Solid) Sampled: 03/08/18 16:40

Analyte	Result	RL	Units	Prepared	Analyz	zed	Prep M	ethod	Method	Lab	Analyst	Notes
			Mountain F	tesearch, LLC								
General Chemistry				O A TIME SHOW	250000					-	anci	_
Total Solids	81.9	1.00	Wt%	03/15/18 18:00	03/15/18	18:00			SM(22) 2540 G-1997	A	STG	
Volatile Organic Compounds by GC/MS												01
1,2,4-Trimethylbenzene	59800	2440	μg/Kg dry	03/12/18 23:58	03/12/18	23:58	EPA:	5035	EPA 8260 B	A	JMG	DI
1,3,5-Trimethylbenzene	10100	2440	μg/Kg dry	03/12/18 23:58	03/12/18	23:58	EPA:	5035	EPA 8260 B	A	JMG	DI
Benzene	9440	2440	μg/Kg dry	03/12/18 23:58	03/12/18	23:58	EPA:	5035	EPA 8260 B	A	JMG	DI
Ethylbenzene	24600	2440	μg/Kg dry	03/12/18 23:58	03/12/18	23:58	EPA	5035	EPA 8260 B	A	IMG	DI
34.54	4820	2440	μg/Kg dry	03/12/18 23:58	03/12/18	23:58	EPA	5035	EPA 8260 B	A	JMG	DI
Isopropylbenzene (Cumene) MTBE	<2440	2440	µg/Kg dry	03/12/18 23:58	03/12/18	23:58	EPA	5035	EPA 8260 B	A	JMG	DI
T. H. D. Lee	14000	2440	μg/Kg dry	03/12/18 23:58	03/12/38	23:58	EPA	5035	EPA 8260 B	A	JMG	DI
Naphthalene	115000	2440	ng/Kg dry	03/12/18 23:58	03/12/18	23:58	EPA	5035	EPA 8260 B	A	JMG	DI
Toluene	35400	2440	μg/Kg dry	03/12/18 23:58	03/12/18	23:58	EPA	5035	EPA 8260 B	A	JMG	D1
Xylene o	92400	4890	μg/Kg dry	03/12/18 23:58	03/12/18	23:58	EPA	5035	EPA 8260 B	A	JMG	DI
Xylene p/m	128000	7330	μg/Kg dry	03/12/18 23:58	03/12/18	23:58	EPA	5035	EPA 8260 B	A	JMG	CC, D
Xylenes, Total	128000	107 %	80-120	-Erabeta August	18 23:58	03/12/18	8 23-58	EPA 8260	В			
Surrogate: 1,2-Dichloroethane-d4		4000			18 23:58	03/12/11		EPA 8260				
Surrogate: 4-Bromofluorobenzene		93.0%	80-120	400.00		03/12/11		EPA 8260				
Surrogate: Dibromofluoromethane		102 %	80-120	,423,400	18 23:58	A a a a a a a a a a a a a a a a a a a a	August 1					
Surrogate: Toluene-d8		96.5 %	80-120	03/12/	18 23:58	03/12/11	8 23:58	EPA 8260	В			

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Stephen Darpe.



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030327 Reported: 03/21/18 15:59

SB-9 (11.5 u)

8030327-06 (Solid) Sampled: 03/08/18 16:40

Analyte	Result	RL	Units	Prepared	Analyze	ed 1	Prep Metho	od Method	Lab	Analyst	Notes
			Mountain R	tesearch, LLC							
General Chemistry				Construction and American	021161103	19.00		SM(22) 254	0 A	STG	_
Total Solids	94.3	1.00	wt%	03/15/18 18:00	03/15/18 1	8:00		G-1997	0 1	310	
Volatile Organic Compounds by GC/MS											01
	5950	212	μg/Kg dry	03/12/18 19:35	03/13/18	19:58	EPA 5035	5 EPA 8260	B A	JMG	
1,2,4-Trimethylbenzene	896	212	μg/Kg dry	03/12/18 19:35	03/13/18	19:58	EPA 503:	5 EPA 8260	B A	JMG	
1,3,5-Trimethylbenzene	86.3	2.12	μg/Kg dry	03/12/18 19:35	03/12/18	19:35	EPA 503:	5 EPA 8260	BA	JMG	
Benzene	1310	212	μg/Kg dry	03/12/18 19:35	03/13/18	19:58	EPA 503	5 EPA 8260	B A	JMG	
Ethylbenzene	57.0	2.12	μg/Kg dry	03/12/18 19:35	03/12/18	19:35	EPA 503	5 EPA 8260	B A	JMG	
Isopropylbenzene (Cumene)		2.12	μg/Kg dry	03/12/18 19:35	03/12/18	19:35	EPA 503	5 EPA 8260	B A	IMG	
MTBE	4.38		μg/Kg dry	03/12/18 19:35	03/13/18	19:58	EPA 503	5 EPA 8260	B A	JMG	
Naphthalene	1730	212		03/12/18 19:35	03/13/18	19:58	EPA 503	5 EPA 8260	B A	JMG	
Toluene	3030	212	μg/Kg dry	03/12/18 19:35	03/13/18		EPA 503		B A	JMG	
Xylene o	2020	212	μg/Kg dry	03/12/18 19:35	03/13/18		EPA 503		B A	JMG	
Xylene p/m	5040	424	μg/Kg dry	03/12/18 19:35	03/13/18		EPA 503			JMG	CC
Xylenes, Total	7060	636	μg/Kg dry				Land Color Do	PA 8260 B		3430	
Surrogate: 1,2-Dichloroethane-d4		104 %	80-120	03/12/1		03/12/18 1					
Surrogate: 4-Bromofluorobenzene		97.4 %	80-120	03/12/1	8 19:35	03/12/18 1		PA 8260 B			
Surrogate: Dibromofluoromethane		109 %	80-120	03/12/1	8 19:35	03/12/18 1	200	EPA 8260 B			
Surrogate: Toluene-d8		97.4%	80-120	03/12/1	8 19:35	03/12/18 1	9:35 E	EPA 8260 B			

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DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030327 Reported: 03/21/18 15:59

SB-10 (5.0 u)

8030327-07 (Solid) Sampled: 03/09/18 11:45

Analyte	Result	RL	Units	Prepared	Analyz	ed	Prep Me	thod Me	ethod	Lab	Analyst	Notes
			Mountain R	tesearch, LLC	2							
General Chemistry				10000010000				OM/O	22.2540	A	STG	
Total Solids	95.6	1.00	wt%	03/15/18 18:00	03/15/18	18:00			22) 2540 -1997	A	310	
Volatile Organic Compounds by GC/MS					22 11 4 11 2	16.00	em i e	one EBA	8260 B	À	JMG	_
1,2,4-Trimethylbenzene	46.7	2.09	μg/Kg dry	03/14/18 16:41	03/14/18	22100	EPA 5			^	JMG	
1.3.5-Trimethylbenzene	12.4	2.09	μg/Kg dry	03/14/18 16:41	03/14/18		EPA 5	258	8260 B	*		
Benzene	4.22	2.09	μg/Kg dry	03/14/18 16:41	03/14/18		EPA 5		8260 B	A	JMG	
Ethylbenzene	23.6	2.09	μg/Kg dry	03/14/18 16:41	03/14/18		EPA 5		8260 B	A	JMG	
Isopropylbenzene (Cumene)	6.12	2.09	μg/Kg dry	03/14/18 16:41	03/14/18	2000	EPA 5	530	8260 B	A	JMG	
мтве	<2.09	2.09	μg/Kg dry	03/14/18 16:41	03/14/18	16:41	EPA 5		8260 B	A	JMG	
Naphthalene	54.8	2.09	µg/Kg dry	03/14/18 16:41	03/15/18	15:51	EPA S	70.0	8260 B	A	JMG	
Toluene	74.6	2.09	µg/Kg dry	03/14/18 16:41	03/14/18	16:41	EPA S	035 EPA	1 8260 B	A	JMG	
	40.0	2.09	μg/Kg dry	03/14/18 16:41	03/14/18	16:41	EPA S	6035 EPA	A 8260 B	A	JMG	
Xylene o	95.8	4.18	μg/Kg dry	03/14/18 16:41	03/14/18	16:41	EPA S	5035 EPA	4 8260 B	A	JMG	
Xylene p/m	136	6.28	µg/Kg dry	03/14/18 16:41	03/14/18	16:41	EPA S	5035 EPA	4 8260 B	A	JMG	CC
Xylenes, Total Surrogate: 1,2-Dichloroethane-d4		107.%	80-120	03/14	/18 16:41	03/14/1	8 16:41	EPA 8260 B				
		96.3 %	80-120	03/14	118 16:41	03/14/1	8 16:41	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		102 %	80-120	03/14	1/18 16:41	03/14/1	8 16:41	EPA 8260 B				
Surrogate: Dibromofluoromethane		98.3 %	80-120	02/6	1/18 16:41	03/14/1	8 16:41	EPA 8260 B				

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030327 Reported: 03/21/18 15:59

Trip Blank

8030327-08 (Aqueous) Sampled: 03/08/18 06:30

Analyte	Result	RL	Units	Prepared	Analyzed	Prep M	ethod Method	Lab	Analyst	Notes
			Mountain F	Research, LLC						
Volatile Organic Compounds by GC/MS				You will your a		TO PERSON	AAAD EDA 9260 D	A	D/C	_
1,2,4-Trimethylbenzene	<2.00	2.00	μg/L	03/13/18 15:59	03/13/18 15			A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/13/18 15:59	03/13/18 15				JMG	
Benzene	<2.00	2.00	µg/L	03/13/18 15:59	03/13/18 15			A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/13/18 15:59	03/13/18 15		No. of the last of		JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/13/18 15:59	03/13/18 15	:59 EPA.5			JMG	
МТВЕ	<2.00	2.00	µg/L	03/13/18 15:59	03/13/18 15	EPA 5			JMG	
Naphthalene	<2.00	2.00	μg/L	03/13/18 15:59	03/13/18 15	5:59 EPA 5	030B EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/13/18 15:59	03/13/18 15	5:59 EPA 5	030B EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	03/13/18 15:59	03/13/18 15	5:59 EPA 5	030B EPA 8260 B	A	JMG	
Xylene o Xylene p/m	<4.00	4.00	µg/L	03/13/18 15:59	03/13/18 15	5:59 EPA 5	030B EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/13/18 15:59	03/13/18 15	5:59 EPA 5	030B EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		112 %	80-120	03/13/	18 15:59 0	3/13/18 15:59	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		92.9 %	80-120	03/13/	18 15:59 0	3/13/18 15:59	EPA 8260 B			
Surrogate: Dibromofluoromethane		106 %	80-120	03/13/	18 15:59	3/13/18 15:59	EPA 8260 B			
Surrogate: Toluene-d8		98.2 %	80-120	03/13/	18 15:59 6	3/13/18 15:59	EPA 8260 B			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030327 Reported: 03/21/18 15:59

Equipment Blank

8030327-09 (Aqueous) Sampled: 03/08/18 10:00

Analyte	Result	RL	Units	Prepared	Analyz	red	Prep M	ethod	Method	Lab	Analyst	Notes
			Mountain F	Research, LLC								
Volatile Organic Compounds by GC/MS					ea u e tre		EPA 50	020D EI	A 8260 B	A	JMG	
1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/12/18 16:49	03/12/18							
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/12/18 16:49	03/12/18		EPA 50		A 8260 B	A	JMG	
Benzene	<2.00	2.00	μg/L	03/12/18 16:49	03/12/18	16:49	EPA 50	and the same of th	PA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	μg/L	03/12/18 16:49	03/12/18	16:49	EPA 50		PA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	μg/L	03/12/18 16:49	03/12/18	16:49	EPA 5	030B EI	PA 8260 B	A	JMG	
	<2.00	2.00	µg/L	03/12/18 16:49	03/12/18	16:49	EPA 5	030B EI	PA 8260 B	A	JMG	
MTBE	<2.00	2.00	μg/L	03/12/18 16:49	03/12/18	16:49	EPA 5	030B EI	PA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/12/18 16:49	03/12/18	16:49	EPA 5	030B E	PA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/12/18 16:49	03/12/18	16:49	EPA 5	030B E	PA 8260 B	A	JMG	
Xylene o	<4.00	4.00	µg/L	03/12/18 16:49	03/12/18	16:49	EPA 5	030B E	PA 8260 B	A	JMG	
Xylene p/m		6.00	μg/L	03/12/18 16:49	03/12/18	16:49	EPA 5	030B E	PA 8260 B	A	JMG	CC
Xylenes, Total	<6.00	alan.	4.53		/18 16:49	03/12/18	16:40	EPA 8260 B				
Surrogate: 1,2-Dichloroethane-d4		109 %	80-120	3.000		1		EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		93.6 %	80-120	7777	/18 16:49	03/12/17						
Surrogate: Dibromofluoromethane		110 %	80-120		/18 16:49	03/12/18		EPA 8260 B				
Surrogate: Toluene-d8		97.0 %	80-120	03/12	/18 16:49	03/12/11	8 16:49	EPA 8260 B				

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030327 Reported: 03/21/18 15:59

Blind Duplicate

8030327-10 (Solid) Sampled: 03/08/18 00:00

Analyte	Result	RL	Units	Prepared	Analy	zed	Prep Me	ethod M	lethod	Lab	Analyst	Note
			Mountain R	tesearch, LLC								
General Chemistry	4.7 %	150	-	03/15/18 18:00	03/15/18	18:00		SM/	(22) 2540	A	STG	_
Total Solids	93.7	1.00	wt%	03/15/18 18:00	03/13/10	10.00			3-1997			
												01
Volatile Organic Compounds by GC/MS	<2.13	2.13	μg/Kg dry	03/13/18 16:54	03/13/18	16:54	EPA 5	035 EPA	4 8260 B	A	JMG	
1,2,4-Trimethylbenzene	<2:13	2.13	μg/Kg dry	03/13/18 16:54	03/13/18	16:54	EPA 5	035 EP/	A 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.13	2.13	μg/Kg dry	03/13/18 16:54	03/13/18	16:54	EPA 5	035 EP/	4 8260 B	A	JMG	
Benzene	<2.13	2.13	µg/Kg dry	03/13/18 16:54	03/13/18	16:54	EPA 5	6035 EP/	A 8260 B	A	JMG	
Ethylbenzene	<2.13	2.13	µg/Kg dry	03/13/18 16:54	03/13/18	16:54	EPA 5	5035 EP/	A 8260 B	A	JMG	
Isopropylbenzene (Cumene)	17.3	2.13	µg/Kg dry	03/13/18 16:54	03/13/18	16:54	EPA S	5035 EP	A 8260 B	A	JMG	
MTBE	<2.13	2.13	µg/Kg dry	03/13/18 16:54	03/13/18	16:54	EPA 5	5035 EP	A 8260 B	A	IMG	
Naphthalene	<2.13	2.13	μg/Kg dry	03/13/18 16:54	03/13/18	3 16:54	EPA :	5035 EP	A 8260 B	A	JMG	
Toluene	<2.13	2.13	μg/Kg dry	03/13/18 16:54	03/13/18	8 16:54	EPA :	5035 EP.	A 8260 B	A	JMG	
Xylene o	<4.27	4.27	μg/Kg dry	03/13/18 16:54	03/13/11	8 16:54	EPA :	5035 EP	A 8260 B	A	JMG	
Xylene p/m	<6.40	6.40	μg/Kg dry	03/13/18 16:54	03/13/1	8 16:54	EPA:	5035 EP	A 8260 B	A	JMG	C
Xylenes, Total		109 %	80-120	03/13/	18 16:54	03/13/1	8 16:54	EPA 8260 B				
Surrogate: 1,2-Dichloroethane-d4		98.3 %	80-120	03/13/	18 16:54	03/13/1	8 16:54	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		112 %	80-120	03/13/	18 16:54	03/13/1	8 16:54	EPA 8260 B				
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8		98.8 %	80-120	03/13/	/18 16:54	03/13/1	8 16:54	EPA 8260 B				

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030327 Reported: 03/21/18 15:59

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2018
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018

Notes and Definitions

01	The VOC vial contained an amount of soil outside the EPA recommendation.
DI	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
w	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

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SAMPLERS SAMP		Woodla	NOT NOT			110 McCrael	cen Run]	Road, Dr	bois, PA	15801		(814) 3			
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200) 937 4574 tes	(814) 371-6030 Fax (814) 375-0823		MR PROJ. MGR.		10 Day X 3 Day 1 Day		Preserve	None	Medi	Non	164:00	MOH	None	164502	Mon		Log In Time;	
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MOUNTAIN KESEARCH LLC		CHAIN OF CUSTODY RECORD	Analyses Requested														1,31b / 808.	Pa
NOOM	110 McCracken Run Road, Dubois, PA 15801	CHAIN	Y			g0928			×			×			X		1426	DATE/TIME
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825 25th Street, Altoona, PA 16601	110 McCrae				CONTAINERS	NUMBER OF	1 402	5 YOM	1 your	1 40E	3 year	1 your	1 Yoz	3 years	1 You		2	
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Well Die	Woodland					DATE	8-8-8					7	81-6-E	-	+			
M Designation	4923.18.01	Woodland	NOTES:	Received On Ice: (Y) / N Sample Temp:	Comments	SAMPLE ID	58-9 (6.50)			58-9 (11.5v)			58-10 (500)		+	1	петропенеция:	KELINQUISHED BY:

CHAIN OF CUSTODY RECORD Analyses Requested A	CHAIN OF CUSTODY RECORD Analyses Requested A	CHAIN OF CUSTODY RECORD Analyses Requested A	CHAIN OF CUSTODY RECORD Analyses Requested A
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ZA X ALSO AMOCH AM	X V2		
203 X Not	X V2		
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WORK ORDER: 8030327

2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEA	
IF YES, EXPLAIN:	
4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YE	NO D
F NO, EXPLAIN:	
5. RECEIVING TEMP: 4/°C TEMP CONTROL(S) PRESENT YES INO BOTTLE	s) TEMPED:
6. WERE THE SAMPLES PROPERLY PRESERVED? YES NO [
F No, Explain:	
7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES NO	
F NO, EXPLAIN:	
3. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES NO NO	
O. WAS THE COC FILLED OUT PROPERLY? YES TANO	
F No, EXPLAIN:	
0. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESER	
F No, EXPLAIN:	
1. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES NO D	L
F YES, EXPLAIN:	
2. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES	n NOM
F YES, WHAT ANALYSES?	PLEASE NOTIFY LABORATORY ANALYSTS!
3. IS SUBCONTRACTING REQUIRED? YES D NO D	
F YES, WHAT ANALYSES?	
4. WAS THE CLIENT CONTACTED? YES D NO IF YES, FILL OUT THE FOLLOW	VING:
MR EMPLOYEE INITIALS: CLIENT SPOKEN TO:	DATE/TIME:
	-Asset saudi
DUTCOME;	

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DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Lab ID #: 8030336

21 March 2018

Dave Panasiti Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland, PA 16881

RE: Woodland, PA

Enclosed are the results of analyses for samples received by the laboratory on 03/13/18 07:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe

Assistant Laboratory Manager

Stephen Dange

Authorized Reviewer



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923,18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8030336 Reported: 03/21/18 16:27

ANALYTICAL REPORT FOR SAMPLES

Cample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Sample ID SB-2 (9.0' U)	8030336-01	Solid	Grab	03/12/18 13:10	03/13/18 07:30
SB-6 (13.0° U)	8030336-02	Solid	Grab	03/12/18 14:15	03/13/18 07:30
SB-6 (14.5' U)	8030336-03	Solid	Grab	03/12/18 14:15	03/13/18 07:30

Mountain Research, LLC

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8030336 Reported: 03/21/18 16:27

SB-2 (9.0' U)

8030336-01 (Solid) Sampled: 03/12/18 13:10

Analyte	Result	RL	Units	Prepared	Analyze	ed Prep!	Method	Method	Lab	Analys	Notes
			Mountain F	tesearch, LLC							
General Chemistry				**********	0204024	0.00		W20) 2540	•	STG	_
Total Solids	92,1	1.00	wt%	03/15/18 18:00	03/15/18 1	8:00	Si	G-1997	A	310	
Volatile Organic Compounds by GC/MS											01
1,2,4-Trimethylbenzene	<2.17	2.17	μg/Kg dry	03/14/18 15:19	03/14/18 1	15:19 EPA	5035 E	PA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.17	2.17	μg/Kg dry	03/14/18 15:19	03/14/18 1	15:19 EPA	5035 E	PA 8260 B	A	JMG	
Benzene	<2.17	2.17	μg/Kg dry	03/14/18 15:19	03/14/18 1	15:19 EPA	5035 E	PA 8260 B	A	JMG	
Ethylbenzene	<2.17	2.17	μg/Kg dry	03/14/18 15:19	03/14/18 1	15:19 EPA	.5035 E	PA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.17	2.17	µg/Kg dry	03/14/18 15:19	03/14/18 1	15:19 EPA	. 5035 E	PA 8260 B	A	JMG	
МТВЕ	2.17	2.17	μg/Kg dry	03/14/18 15:19	03/14/18 1	15:19 EPA		PA 8260 B	A	JMG	
Naphthalene	<2.17	2.17	µg/Kg dry	03/14/18 15:19	03/14/18	15:19 EPA	5035 E	PA 8260 B	A	JMG	L
Toluene	5.04	2.17	μg/Kg dry	03/14/18 15:19	03/14/18	1100		EPA 8260 B	A	JMG	
Xylene o	<2.17	2.17	μg/Kg dry	03/14/18 15:19	03/14/18			PA 8260 B	A	JMG	
Xylene p/m	<4.34	4.34	μg/Kg dry	03/14/18 15:19	03/14/18			PA 8260 B	A	JMG	
Xylenes, Total	<6.52	6.52	µg/Kg dry	03/14/18 15:19	03/14/18	15:19 EPA	5035 E	PA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		104 %	80-120	200	18 15:19	03/14/18 15:19	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		99.5 %	80-120	03/14/	18 15:19	03/14/18 15:19	EPA 8260 B				
Surrogate: Dibromofluoromethane		111 %	80-120		18 15:19	03/14/18 15:19	EPA 8260 B				
Surrogate: Toluene-d8		97.5 %	80-120	03/14/	18 15:19	03/14/18 15:19	EPA 8260 B				

Mountain Research, LLC

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Stephen Dampe.



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923,18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030336 Reported: 03/21/18 16:27

SB-6 (13.0' U)

8030336-02 (Solid) Sampled: 03/12/18 14:15

Analyte	Result	RL	Units	Prepared	Analyz	ed Prep	ep Method	Method	Lab	Analyst	Notes
			Mountain R	tesearch, LLC							
General Chemistry					02115110	10.00		SM(22) 2540	A	STG	
Total Solids	96.7	1.00	wt%	03/15/18 18:00	03/15/18	18:00		G-1997	-	310	
Volatile Organic Compounds by GC/MS											01
1,2,4-Trimethylbenzene	<2.07	2.07	μg/Kg dry	03/14/18 15:46	03/14/18	15:46 EI	PA 5035	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.07	2.07	μg/Kg dry	03/14/18 15:46	03/14/18	15:46 EI	PA 5035	EPA 8260 B	A	JMG	
Benzene	<2.07	2.07	μg/Kg dry	03/14/18 15:46	03/14/18	15:46 EI	PA 5035	EPA 8260 B	A	JMG	
Ethylbenzene	<2.07	2.07	μg/Kg dry	03/14/18 15:46	03/14/18	15:46 EI	PA 5035	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.07	2.07	µg/Kg dry	03/14/18 15:46	03/14/18	15:46 El	PA 5035	EPA 8260 B	A	JMG	
MTBE	<2.07	2.07	μg/Kg dry	03/14/18 15:46	03/14/18	15:46 E	PA 5035	EPA 8260 B	A	JMG	
Naphthalene	<2.07	2.07	μg/Kg dry	03/14/18 15:46	03/14/18	15:46 E	PA 5035	EPA 8260 B	A	JMG	L
Toluene	<2.07	2,07	µg/Kg dry	03/14/18 15:46	03/14/18	15:46 E	PA 5035	EPA 8260 B	A	JMG	
Xylene o	<2.07	2.07	μg/Kg dry	03/14/18 15:46	03/14/18	15:46 E	PA 5035	EPA 8260 B	A	JMG	
Xylene b/m	<4.14	4.14	μg/Kg dry	03/14/18 15:46	03/14/18	15:46 E	PA 5035	EPA 8260 B	A	JMG	
Xylenes, Total	<6.20	6.20	μg/Kg dry	03/14/18 15:46	03/14/18	15:46 E	PA 5035	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		114%	80-120	03/14/	18 15:46	03/14/18 15:40	S EPA 82	60 B			
Surrogate: 4-Bromofluorobenzene		101 %	80-120	03/14/	18 15:46	03/14/18 15:40	EPA 82	60 B			
Surrogate: Dibromofluoromethane		113 %	80-120	03/14/	18 15:46	03/14/18 15:4	6 EPA 82	60 B			
Surrogate: Toluene-d8		100 %	80-120	03/14/	18 15:46	03/14/18 15:4	6 EPA 82	60 B			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8030336 Reported: 03/21/18 16:27

SB-6 (14.5' U)

8030336-03 (Solid) Sampled: 03/12/18 14:15

Analyte	Result	RL	Units	Prepared	Analyz	ed Prej	Method	Method	Lab	Analyst	Notes
			Mountain F	Research, LLC							
General Chemistry								10.000		1.00	
Total Solids	86.3	1.00	wt%	03/15/18 18:00	03/15/18	18:00		SM(22) 2540 G-1997	A	STG	
Volatile Organic Compounds by GC/MS						-					01
1.2.4-Trimethylbenzene	<2.32	2.32	µg/Kg dry	03/14/18 16:14	03/14/18	16:14 E	PA 5035	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.32	2.32	μg/Kg dry	03/14/18 16:14	03/14/18	16:14 E	PA 5035	EPA 8260 B	A	JMG	
Benzene	7.06	2.32	μg/Kg dry	03/14/18 16:14	03/14/18	Annual Property	PA 5035	EPA 8260 B	A	JMG	
Ethylbenzene	<2.32	2.32	µg/Kg dry	03/14/18 16:14	03/14/18	16:14 E	PA 5035	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.32	2.32	µg/Kg dry	03/14/18 16:14	03/14/18	16:14 E	PA 5035	EPA 8260 B	A	JMG	
МТВЕ	<2.32	2.32	μg/Kg dry	03/14/18 16:14	03/14/18	16:14 E	PA 5035	EPA 8260 B	A	JMG	
Naphthalene	<2.32	2.32	μg/Kg dry	03/14/18 16:14	03/14/18	16:14 E	PA 5035	EPA 8260 B	A	IMG	L
Toluene	19.8	2.32	μg/Kg dry	03/14/18 16:14	03/14/18	16:14 E	PA 5035	EPA 8260 B	A	JMG	
Xylene o	9.17	2.32	μg/Kg dry	03/14/18 16:14	03/14/18	16:14 E	PA 5035	EPA 8260 B	A	JMG	
Xylene p/m	15.9	4.64	µg/Kg dry	03/14/18 16:14	03/14/18	16:14 E	PA 5035	EPA 8260 B	A	JMG	
Xylenes, Total	25.0	6.95	μg/Kg dry	03/14/18 16:14	03/14/18	16:14 E	PA 5035	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		106%	80-120	03/14/1	18 16:14	03/14/18 16:14	EPA 82	60 B			
Surrogate: 4-Bromofluorobenzene		97.9 %	80-120	03/14/1	18 16:14	03/14/18 16:14	EPA 82	60 B			
Surrogate: Dibromofluoromethane		114 %	80-120	03/14/1	18 16:14	03/14/18 16:14	EPA 82	60 B			
Surrogate: Toluene-d8		98.0 %	80-120	03/14/1	18 16:14	03/14/18 16:1	EPA 82	60 B			

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Stephen Darye



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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8030336 Reported: 03/21/18 16:27

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2018
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018

Notes and Definitions

01	The VOC vial contained an amount of soil outside the EPA recommendation.
L	The laboratory control spike did not meet laboratory acceptance criteria. The associated analytical results may be biased high.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225

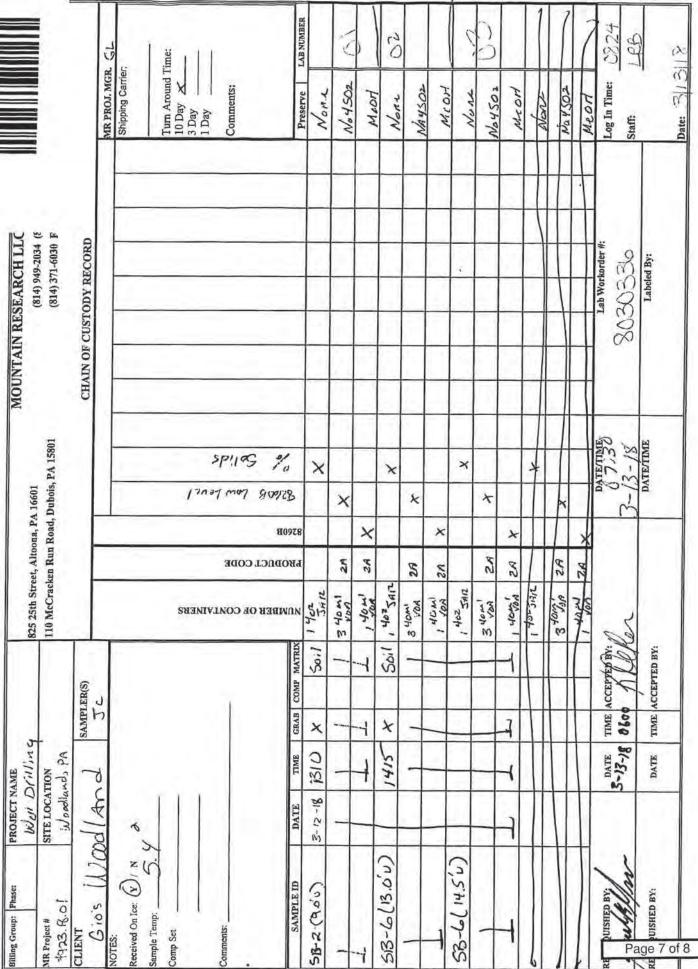
W Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258

Mountain Research, LLC

D

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MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:	And	020330	-
	2/18 DATE RECEIVED: 3/13/18 TI	ME RECEIVED: 07.36	WANTE THE
DATE SASITEES, TITE	1		
1. CHECK ALL THAT APPLY: P	A WV - MD - PWS - NPDES/CO	MPLIANCE DAIRY D	RUSH
2. WERE ANY OF THE SAMPLE C	ONTAINERS DAMAGED/LEAKING? (ARE CU	STODY SEALS BROKEN?) Y	ES D NOT
IF YES, EXPLAIN:	712		-
3. Number Of Containers Rec	EIVED: 15		
4. WERE THE SAMPLES RECEIVED	ON ICE/OTHER ACCEPTABLE REFRIGERAN	VT? YES NO D	
IF NO, EXPLAIN:			
5. RECEIVING TEMP J. 4°C T	TEMP CONTROL(S) PRESENT YES IN NO I	BOTTLE(S) TEMPED:	
6. WERE THE SAMPLES PROPERLY	y Preserved? Yes NO a		
IF NO, EXPLAIN:			
	ED IN THE CORRECT CONTAINERS? YES		
IF NO, EXPLAIN:			
8. IS THERE HEADSPACE PRESENT	FOR VOLATILES/ODOR SAMPLES? YES	NO D N/A	
9. WAS THE COC FILLED OUT PR	ROPERLY? YESONO II		
IF NO, EXPLAIN:			
10. DID THE SAMPLE LABEL(S) CO	ONTAIN ADEQUATE INFO? (CLIENT/DATE/TII	ME/PRESERVATIVE) YES	S4 NO II
IF NO, EXPLAIN:			.
11. WERE ANY OF THE SAMPLES I	RECEIVED OUTSIDE OF HOLDING TIME? YE	So No	
IF YES, EXPLAIN:			- 30
12. Do The Samples Require An	NALYSES THAT HAVE A SHORT HOLDING TI	ME? YES NO	
IF YES, WHAT ANALYSES?		PLEASE NOTIFY	LABORATORY ANALYSTS
13. Is Subcontracting Require	D? YES II NO a		
IF YES, WHAT ANALYSES?			1
14. Was THE CLIENT CONTACTED		HE FOLLOWING:	
MR EMPLOYEE INITIALS:			ATE/TIME:
A - Articles	CORRECTION ON THE	D.	
OUTCOME:			
1000			
SIGNATURE: // LUNCO			The Oak
L60.30.A r2 Sample Receipt Form		For MR	Use Only

Page 8 of 8





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Lab ID #: 8070363

25 July 2018

Dave Panasiti Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland, PA 16881

RE: Woodland, PA

Enclosed are the results of analyses for samples received by the laboratory on 07/11/18 15:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe

Assistant Laboratory Manager

Stephen Daryse

Authorized Reviewer



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8070363 Reported: 07/25/18 15:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
SB-10 (2.0)	8070363-01	Solid	Grab	07/11/18 13:00	07/11/18 15:15
SB-10 (6.0)	8070363-02	Solid	Grab	07/11/18 13:00	07/11/18 15:15
SB-11 (2.0)	8070363-03	Solid	Grab	07/11/18 12:15	07/11/18 15:15
SB-11 (6.0)	8070363-04	Solid	Grab	07/11/18 12:15	07/11/18 15:15

Mountain Research, LLC

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Stephen Dampe



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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8070363 Reported: 07/25/18 15:02

SB-10 (2.0)

8070363-01 (Solid) Sampled: 07/11/18 13:00

Analyte	Result	RL.	Units	Prepared	Analyz	ed Prep M	lethod Method	Lab	Analyst	Notes
			Mountain F	Research, LLC						
General Chemistry					Avia park	7.60%	- 14-50-12-30-3	-	- Control	
Total Solids	93.8	1.00	wt%	07/13/18 15:30	07/13/18	15:30	SM(22) 254 G-1997	0 A	STG	
Volatile Organic Compounds by GC/MS								- 121		01
1,2,4-Trimethylbenzene	<2.13	2.13	μg/Kg dry	07/13/18 16:45	07/13/18				JMG	
1,3,5-Trimethylbenzene	<2.13	2.13	µg/Kg dry	07/13/18 16:45	07/13/18		and the same of		JMG	
Benzene	<2.13	2.13	μg/Kg dry	07/13/18 16:45	07/13/18	ALC: NO.			JMG	
Ethylbenzene	<2.13	2.13	μg/Kg dry	07/13/18 16:45	07/13/18				JMG	
Isopropylbenzene (Cumene)	<2.13	2.13	µg/Kg dry	07/13/18 16:45	07/13/18				JMG	
мтве	<2.13	2.13	μg/Kg dry	07/13/18 16:45	07/13/18	16:45 EPA			JMG	
Naphthalene	<2.13	2.13	µg/Kg dry	07/13/18 16:45	07/13/18	16:45 EPA	5035 EPA 8260 I	3 A	JMG	
Toluene	<2.13	2.13	µg/Kg dry	07/13/18 16:45	07/13/18	16:45 EPA	5035 EPA 8260 I	3 A	JMG	
Xylene o	<2.13	2.13	μg/Kg dry	07/13/18 16:45	07/13/18	16:45 EPA	5035 EPA 8260 I	3 A	JMG	
Xylene p/m	<4.26	4.26	μg/Kg dry	07/13/18 16:45	07/13/18	16:45 EPA	5035 EPA 8260 I	3 A	JMG	
Xylenes, Total	<6.40	6.40	µg/Kg dry	07/13/18 16:45	07/13/18	16:45 EPA	5035 EPA 8260 I	3 A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		109 %	80-120	07/13/	18 16:45	07/13/18 16:45	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		97.7 %	80-120	07/13/	18 16:45	07/13/18 16:45	EPA 8260 B			
Surrogate: Dibromofluoromethane		105.%	80-120	07/13/	18 16:45	07/13/18 16:45	EPA 8260 B			
Surrogate: Toluene-d8		101 %	80-120	07/13/	18 16:45	07/13/18 16:45	EPA 8260 B			

Mountain Research, LLC

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Stephen Tampe



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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8070363 Reported; 07/25/18 15:02

SB-10 (6.0)

8070363-02 (Solid) Sampled: 07/11/18 13:00

Analyte	Result	RL	Units	Prepared	Analyz	ed I	Prep Method	Method	Lab	Analyst	Notes
			Mountain R	tesearch, LLC							
General Chemistry					Director.	.002		20 2000 2012	-	- manual	_
Total Solids	91.0	1.00	wt%	07/13/18 15:30	07/13/18	15:30		SM(22) 2540 G-1997	A	STG	
Volatile Organic Compounds by GC/MS				78/30/07/23/07	Water Marie	ra rai		ED1 0260 D		15.60	
1,2,4-Trimethylbenzene	<2.20	2.20	μg/Kg dry	07/13/18 17:12	07/13/18	7,000	EPA 5035	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.20	2.20	μg/Kg dry	07/13/18 17:12	07/13/18		EPA 5035	EPA 8260 B	A	JMG	
Benzene	4.40	2.20	µg/Kg dry	07/13/18 17:12	07/13/18	17:12	EPA 5035	EPA 8260 B	A	JMG	
Ethylbenzene	<2.20	2.20	µg/Kg dry	07/13/18 17:12	07/13/18	17:12	EPA 5035	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.20	2.20	µg/Kg dry	07/13/18 17:12	07/13/18	17:12	EPA 5035	EPA 8260 B	A	JMG	
МТВЕ	<2.20	2.20	µg/Kg dry	07/13/18 17:12	07/13/18	17:12	EPA 5035	EPA 8260 B	A	JMG	
Naphthalene	<2.20	2.20	µg/Kg dry	07/13/18 17:12	07/13/18	17:12	EPA 5035	EPA 8260 B	A	JMG	
	31.6	2.20	µg/Kg dry	07/13/18 17:12	07/13/18	17:12	EPA 5035	EPA 8260 B	A	JMG	
Toluene	<2.20	2,20	µg/Kg dry	07/13/18 17:12	07/13/18	17:12	EPA 5035	EPA 8260 B	A	JMG	
Xylene o	6.71	4.40	µg/Kg dry	07/13/18 17:12	07/13/18	17:12	EPA 5035	EPA 8260 B	A	JMG	
Xylene p/m	6.71	6.60	μg/Kg dry	07/13/18 17:12	07/13/18	17:12	EPA 5035	EPA 8260 B	A	JMG	CC
Xylenes, Total	0.71	110 %	80-120	07/13/	18 17:12	07/13/18 17	7:12 EPA 82	260 B			
Surrogate: 1,2-Dichloroethane-d4		97.2 %	80-120	10000	18 17:12	07/13/18 17	7:12 EPA 82	260 B			
Surrogate: 4-Bromofluorobenzene		100 %	80-120		18 17:12	07/13/18 17		260 B			
Surrogate: Dibromofluoromethane		101 %	80-120	401707	18 17:12	07/13/18 1		260 B			

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Stephen Tampe



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8070363 Reported: 07/25/18 15:02

SB-11 (2.0)

8070363-03 (Solid) Sampled: 07/11/18 12:15

Analyte	Result	RL	Units	Prepared	Analyz	zed	Prep Met	hod Meth	nod	Lab	Analyst	Notes
			Mountain R	Research, LLC								
General Chemistry					\$5 min a	varuu.			- Varia		070	
Total Solids	88.6	1.00	wt%	07/13/18 15:30	07/13/18	15:30		SM(22) G-1		A	STG	
Volatile Organic Compounds by GC/MS							138724	120.0	781.20		10 10 10 10 10	01
1,2,4-Trimethylbenzene	<2.26	2.26	μg/Kg dry	07/13/18 17:40	07/13/18	17:40	EPA 50			A	JMG	
1,3,5-Trimethylbenzene	<2.26	2.26	μg/Kg dry	07/13/18 17:40	07/13/18	17:40	EPA 50			A	JMG	
Benzene	<2.26	2.26	µg/Kg dry	07/13/18 17:40	07/13/18	17:40	EPA 50			A	JMG	
Ethylbenzene	<2.26	2.26	µg/Kg dry	07/13/18 17:40	07/13/18	17:40	EPA 50	35 EPA 8	260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.26	2.26	µg/Kg dry	07/13/18 17:40	07/13/18	17:40	EPA 50	35 EPA 8	260 B	A	JMG	
MTBE	<2.26	2.26	µg/Kg dry	07/13/18 17:40	07/13/18	17:40	EPA 50	35 EPA 8	260 B	A	JMG	
Naphthalene	<2.26	2.26	µg/Kg dry	07/13/18 17:40	07/13/18	17:40	EPA 50	35 EPA 8	260 B	A	JMG	
Toluene	5.54	2.26	μg/Kg dry	07/13/18 17:40	07/13/18	17:40	EPA 50	35 EPA 8	8260 B	A	IMG	
Xylene o	<2.26	2.26	μg/Kg dry	07/13/18 17:40	07/13/18	17:40	EPA 50	35 EPA 8	260 B	A	JMG	
N. Carrier and Physics and Phy	<4.51	4.51	μg/Kg dry	07/13/18 17:40	07/13/18	17:40	EPA 50	35 EPA 8	260 B	A	JMG	
Xylene p/m	<6.77	6.77	μg/Kg dry	07/13/18 17:40	07/13/18	17:40	EPA 50	035 EPA 8	260 B	A	JMG	CC
Xylenes, Total Surrogate: 1,2-Dichloroethane-d4		95.2 %	80-120	07/13/	18 17:40	07/13/18	17:40	EPA 8260 B				
Surrogate: 1,2-Dictioroetnane-u4 Surrogate: 4-Bromofluorobenzene		95.0 %	80-120	07/13/	18 17:40	07/13/18	17:40	EPA 8260 B				
Surrogate: 4-Bromofluorobetizene Surrogate: Dibromofluoromethane		103 %	80-120	07/13/	18 17:40	07/13/18	17:40	EPA 8260 B				
Surrogate: Dioromojatorometatane Surrogate: Toluene-d8		104 %	80-120	07/13/	18 17:40	07/13/18	17:40	EPA 8260 B				

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8070363 Reported: 07/25/18 15:02

SB-11 (6.0)

8070363-04 (Solid) Sampled: 07/11/18 12:15

Analyte	Result	RL	Units	Prepared	Analyz	red	Prep Metho	d Method	Lab	Analyst	Notes
			Mountain F	Research, LLC							
General Chemistry					107W31	-		a hall of days	-	1	
Total Solids	94.0	1.00	wt%	07/13/18 15:30	07/13/18	15:30		SM(22) 2540 G-1997	A	STG	
Volatile Organic Compounds by GC/MS							2007.7500				01
1,2,4-Trimethylbenzene	<2.13	2.13	μg/Kg dry	07/13/18 18:08	07/13/18	18:08	EPA 5035	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.13	2.13	µg/Kg dry	07/13/18 18:08	07/13/18	18:08	EPA 5035			JMG	
Benzene	36.2	2.13	μg/Kg dry	07/13/18 18:08	07/13/18		EPA 5035			JMG	
Ethylbenzene	7.22	2.13	μg/Kg dry	07/13/18 18:08	07/13/18		EPA 5035			JMG	
Isopropylbenzene (Cumene)	<2.13	2.13	μg/Kg dry	07/13/18 18:08	07/13/18	18:08	EPA 5035			JMG	
MTBE	<2,13	2.13	µg/Kg dry	07/13/18 18:08	07/13/18	18:08	EPA 5035	EPA 8260 B	A	JMG	
Naphthalene	<2.13	2.13	μg/Kg dry	07/13/18 18:08	07/13/18	18:08	EPA 5035	EPA 8260 B	A	JMG	
Toluene	104	2.13	μg/Kg dry	07/13/18 18:08	07/13/18	18:08	EPA 5035	EPA 8260 E	A	JMG	
Xylene o	8.90	2.13	μg/Kg dry	07/13/18 18:08	07/13/18	18:08	EPA 5035	EPA 8260 E	A	JMG	
Xylene p/m	26.5	4.25	μg/Kg dry	07/13/18 18:08	07/13/18	18:08	EPA 5035	EPA 8260 F	A	JMG	
Xylenes, Total	35.4	6.38	µg/Kg dry	07/13/18 18:08	07/13/18	18:08	EPA 5035	EPA 8260 F	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		106 %	80-120	07/13/	18 18:08	07/13/18	18:08 EF	PA 8260 B			
Surrogate: 4-Bromofluorobenzene		97.0%	80-120	07/13/	18 18:08	07/13/18	18:08 EF	PA 8260 B			
Surrogate: Dibromofluoromethane		99.3 %	80-120	07/13/	18 18:08	07/13/18	18:08 EF	PA 8260 B			
Surrogate: Toluene-d8		99.6%	80-120	07/13/	18 18:08	07/13/18	18:08 EF	PA 8260 B			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8070363 Reported: 07/25/18 15:02

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2018
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2019
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018

Notes and Definitions

01	The VOC vial contained an amount of soil outside the EPA recommendation.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
٨	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

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Stephen Dampe

MR Project " SCL BATHING Drilling STELOCATION	I'N 9		825 25th Street, Altoona, PA 16601	reet, Altoor	1a, PA 166	MOL	INTAIN R	MOUNTAIN RESEARCH LLC (814) 949-2034 (800)		
4925, 18.01 WO	Mood land	AMP	TIV MCCracken Kun Koad, Dubois, PA 15801	cken Kun I	toad, Dub	ois, PA 15 CHA	SOI LIN OF CUS	A 15801 (814) 371-6030 Fax (1 CHAIN OF CUSTODY RECORD	_	
NOTES X	7	€				A	Analyses Requested	squested	MR PROJ. MGR.	IGR. GL
Received On for (X) N			***************************************			513			Shipping Carrier,	Carrier,
Sample Tamp: ()						-m			Turn Arc	Turn Around Time:
Seal in Fack: Y . J. N			LVINEES			MOJ	Spile		3 Day	*
Other			COM		8 (Si	3	-	1 Day	
Comments	1		10 AEB	DOCE CO	0720	om	104		Comments:	ts:
SAMPLE ID, NO. DATE	TIME	GRAB COMP MATRIN	4		8	8	οT		Denomin	Tanahara at 1
SB-10CD 7111118	1300	×	Soil 140 mc	17	×				TARAN	- LAB INDIMBE
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	DAIL	LIME ACCEPTED	٥٧٠.					1	Clair.	-

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

9.	WAS THE COC FILLED OUT PROPERLY? YES NO D
	No, Explain:
	DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YE8 NO
	VO, EXPLAIN:
	WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES - NO.
IF Y	'ES, EXPLAIN:
12.	DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ON NOT
IF Y	'ES, WHAT ANALYSES? PLEASE NOTIFY LABORATORY ANALYSTS
13,	IS SUBCONTRACTING REQUIRED? YES D NO D
[FY	es, What Analyses?
14.	WAS THE CLIENT CONTACTED? YES D NOW IF YES, FILL OUT THE FOLLOWING:
415.5	The state of the s
145	EMPLOYEE INITIALS: CLIENT SPOKEN TO: DATE/TIME:

Page 9 of 9





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Lab ID #: 8070404

27 July 2018

Dave Panasiti Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland, PA 16881

RE: Woodland, PA

Enclosed are the results of analyses for samples received by the laboratory on 07/13/18 16:01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe

Assistant Laboratory Manager

Stephen Dange

Authorized Reviewer



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375,0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8070404 Reported: 07/27/18 11:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
SB-5 (2.0) U	8070404-01	Solid	Grab	07/12/18 12:00	07/13/18 16:01
SB-5 (13.0) U	8070404-02	Solid	Grab	07/12/18 14:25	07/13/18 16:01
SB-12 (9.0) U	8070404-03	Solid	Grab	07/13/18 09:30	07/13/18 16:01

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8070404 Reported: 07/27/18 11:45

SB-5 (2.0) U

8070404-01 (Solid) Sampled: 07/12/18 12:00

Analyte	Result	RL.	Units	Prepared	Analy	zed	Prep Me	ethod	Method	Lab	Analyst	Notes
			Mountain F	tesearch, LLC								
General Chemistry				120120000000000000000000000000000000000	07/10/20	12.00		146	(10a) as in		STG	
Total Solids	83.2	1.00	wt%	07/18/18 12:00	07/18/18	12:00		Si	M(22) 2540 G-1997	A	310	
Volatile Organic Compounds by GC/MS												01
1.2,4-Trimethylbenzene	<2.96	2.96	μg/Kg dry	07/19/18 08:34	07/19/18	08:34	EPA 5	035 E	PA 8260 B	A	JSA	
1,3,5-Trimethylbenzene	<2.96	2.96	μg/Kg dry	07/19/18 08:34	07/19/18	08:34	EPA 5	035 E	PA 8260 B	A	JSA	
Benzene	<2.96	2.96	μg/Kg dry	07/19/18 08:34	07/19/18	08:34	EPA 5	035 E	PA 8260 B	A	JSA	
Ethylbenzene	<2.96	2.96	μg/Kg dry	07/19/18 08:34	07/19/18	8 08:34	EPA 5	5035 E	PA 8260 B	A	JSA	
Isopropylbenzene (Cumene)	<2.96	2.96	µg/Kg dry	07/19/18 08:34	07/19/18	8 08:34	EPA 5	5035 E	PA 8260 B	A	JSA.	
MTBE	<2.96	2.96	µg/Kg dry	07/19/18 08:34	07/19/18	3 08:34	EPA 5	5035 E	PA 8260 B	A	JSA	
Naphthalene	<2.96	2.96	μg/Kg dry	07/19/18 08:34	07/19/18	8 08:34	EPA :	5035 E	PA 8260 B	A	JSA	
Toluene	<2.96	2.96	µg/Kg dry	07/19/18 08:34	07/19/18	8 08:34	EPA :	5035 E	PA 8260 B	A	JSA	
Xylene o	<2.96	2.96	µg/Kg dry	07/19/18 08:34	07/19/18	8 08:34	EPA S	5035 E	PA 8260 B	A	JSA	
Xylene p/m	<5.91	5.91	μg/Kg dry	07/19/18 08:34	07/19/18	8 08:34	EPA :		PA 8260 B	A	JSA	
Xylenes, Total	<8.87	8.87	μg/Kg dry	07/19/18 08:34	07/19/13	8 08:34	EPA :	5035 E	PA 8260 B	A	JSA	CC
Surrogate: 1,2-Dichloroethane-d4		108 %	80-120	07/19/	18 08:34	07/19/1	8 08:34	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		96.9 %	80-120	07/19/	18 08:34	07/19/1	8 08:34	EPA 8260 B				
Surrogate: Dibromofluoromethane		102 %	80-120	07/19/	18 08:34	07/19/1	8 08:34	EPA 8260 B				
Surrogate: Toluene-d8		102 %	80-120	07/19/	18 08:34	07/19/1	8 08:34	EPA 8260 B				

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8070404 Reported: 07/27/18 11:45

SB-5 (13.0) U

8070404-02 (Solid) Sampled: 07/12/18 14:25

Analyte	Result	RL	Units	Prepared	Analy	zed	Prep Method	Method	Lab	Analyst	Notes
			Mountain R	Research, LLC							
General Chemistry					N. 100 C 100	12.00				ome	
Total Solids	81.9	1,00	wt%	07/18/18 12:00	07/18/18	3 12:00		SM(22) 2540 G-1997	A	STG	
Volatile Organic Compounds by GC/MS					4000000		201 202 E	EPA 8260 B		10.4	_
1,2,4-Trimethylbenzene	<2.42	2,42	μg/Kg dry	07/19/18 09:01	07/19/18		EPA 5035	EPA 8260 B	A	JSA.	
1,3,5-Trimethylbenzene	<2.42	2.42	μg/Kg dry	07/19/18 09:01	07/19/18		EPA 5035	The state of the s	٨	JSA	
Benzene	<2.42	2.42	μg/Kg dry	07/19/18 09:01	07/19/18		EPA 5035	EPA 8260 B	A	JSA	
Ethylbenzene	<2.42	2.42	μg/Kg dry	07/19/18 09:01	07/19/11		EPA 5035	EPA 8260 B	A	JSA	
Isopropylbenzene (Cumene)	<2.42	2.42	μg/Kg dry	07/19/18 09:01	07/19/18		EPA 5035	EPA 8260 B	A	JSA	
мтве	<2.42	2.42	μg/Kg dry	07/19/18 09:01	07/19/1	8 09:01	EPA 5035	EPA 8260 B	٨	JSA	
Naphthalene	<2.42	2.42	μg/Kg dry	07/19/18 09:01	07/19/1	8 09:01	EPA 5035	EPA 8260 B	A	JSA	
Toluene	<2.42	2,42	µg/Kg dry	07/19/18 09:01	07/19/1	8 09:01	EPA 5035	EPA 8260 B	A	JSA	
Xylene o	<2.42	2.42	μg/Kg dry	07/19/18 09:01	07/19/1	8 09:01	EPA 5035	EPA 8260 B	A	JSA	
Xylene p/m	<4.84	4.84	μg/Kg dry	07/19/18 09:01	07/19/1	8 09:01	EPA 5035	EPA 8260 B	Α	JSA	
Xylenes, Total	<7.27	7.27	μg/Kg dry	07/19/18 09:01	07/19/1	8 09:01	EPA 5035	EPA 8260 B	A	JSA	CC
Surrogate: 1,2-Dichloroethane-d4		106 %	80-120	07/19/	18 09:01	07/19/18	8 09:01 EP	1 8260 B			
Surrogate: 4-Bromofluorobenzene		98.6%	80-120	07/19/	18 09:01	07/19/18	8 09:01 EP	4 8260 B			
Surrogate: Dibromofluoromethane		98.6%	80-120	07/19/	18 09:01	07/19/18	8 09:01 EP	4 8260 B			
Surrogate: Toluene-d8		101 %	80-120	07/19/	18 09:01	07/19/10	8 09:01 EP	4 8260 B			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8070404 Reported: 07/27/18 11:45

SB-12 (9.0) U

8070404-03 (Solid) Sampled: 07/13/18 09:30

Analyte	Result	RI.	Units	Prepared	Analy	zed	Prep Method	Method	Lab	Analyst	Notes
			Mountain F	Research, LLC							
General Chemistry				2000000000		12.00		DX 4/200 0 5 40		erc	_
Total Solids	91.7	1,00	wt%	07/18/18 12:00	07/18/18	12:00		SM(22) 2540 G-1997	A	STG	
Volatile Organic Compounds by GC/MS				CONTROL STATE			ED1 5015	EPA 8260 B	A	JSA	_
1,2,4-Trimethylbenzene	<2,16	2.16	μg/Kg dry	07/19/18 09:29	07/19/18		EPA 5035	EPA 8260 B	-	JSA	
1,3,5-Trimethylbenzene	<2.16	2.16	μg/Kg dry	07/19/18 09:29	07/19/18		EPA 5035	EPA 8260 B	A	JSA	
Benzene	<2.16	2.16	µg/Kg dry	07/19/18 09:29	07/19/18		EPA 5035		A	1	
Ethylbenzene	<2.16	2.16	μg/Kg dry	07/19/18 09:29	07/19/18		EPA 5035	EPA 8260 B	A	JSA.	
Isopropylbenzene (Cumene)	<2.16	2.16	μg/Kg dry	07/19/18 09:29	07/19/18		EPA 5035	EPA 8260 B	A	JSA	
мтве	<2.16	2.16	μg/Kg dry	07/19/18 09:29	07/19/11		EPA 5035	EPA 8260 B	A	JSA	
Naphthalene	<2.16	2.16	µg/Kg dry	07/19/18 09:29	07/19/13	8 09:29	EPA 5035	EPA 8260 B	A	JSA	
Toluene	<2.16	2.16	µg/Kg dry	07/19/18 09:29	07/19/1	8 09:29	EPA 5035	EPA 8260 B	A	JSA	
Xylene o	<2.16	2.16	µg/Kg dry	07/19/18 09:29	07/19/1	8 09:29	EPA 5035	EPA 8260 B	A	JSA	
Xylene p/m	<4,32	4.32	µg/Kg dry	07/19/18 09:29	07/19/1	8 09:29	EPA 5035	EPA 8260 B	A	JSA	
Xylenes, Total	<6.48	6.48	μg/Kg dry	07/19/18 09:29	07/19/1	8 09:29	EPA 5035	EPA 8260 B	A	JSA	CC
Surrogate: 1,2-Dichloroethane-d4		101 %	80-120	07/19/	18 09:29	07/19/18	109:29 EPA	3260 B			
Surrogate: 4-Bromofluorobenzene		100 %	80-120	07/19/	18 09:29	07/19/18	09:29 EPA	8260 B			
Surrogate: Dibromofluoromethane		103 %	80-120	07/19/	18 09:29	07/19/18	8 09:29 EPA	8260 B			
Surrogate: Toluene-d8		98.7%	80-120	07/19/	18 09:29	07/19/18	8 09:29 EPA	8260 B			

Mountain Research, LLC

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.

Stephen Dampe



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8070404 Reported: 07/27/18 11:45

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2018
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2019
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018

Notes and Definitions

R2	Sample received at a temperature outside designated range.
01	The VOC vial contained an amount of soil outside the EPA recommendation.
cc	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP#07-00418, WVDEP#225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

Mountain Research, LLC

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.

Stephen Dampe.



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Billing Group: Phase: SLU Write MR Project # 4925, 18.01 CLIENT	NOTES	Received On Ice. (**); N. Sample Temp.	PWSED #	Comments SAMPLE ID NO	58.512	-	H	Sh-51 1274	-	-	0	N (1/1 1 0	+		21- QO	-	RELINQUISHED BY:	RELINOUISHED BY:

White - Lab; Blue - File; Yellow - Project Manager; Pink - Staff

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

Woodland Food ofwel

WORK ORDER:

CLIENT:

13/18 DATE RECEIVED: 7/13/1/ TIME RECEIVED: /6/0 DATE SAMPLED: 7 1. CHECK ALL THAT APPLY: PA WY MD PWS NPDES/COMPLIANCE DAIRY RUSH 2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES DAMAGED/LEAKING? IF YES, EXPLAIN: 3. NUMBER OF CONTAINERS RECEIVED: 15 4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YESD NO D IF NO, EXPLAIN: 5. RECEIVING TEMP: 1.3 °C TEMP CONTROL(S) PRESENT YES | NO | BOTTLE(S) TEMPED: 6. WERE THE SAMPLES PROPERLY PRESERVED? YES - NO -IF NO, EXPLAIN: 7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES NO IF NO, EXPLAIN: 8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES DO NO N/AD 9. WAS THE COC FILLED OUT PROPERLY?

YES NO IF NO, EXPLAIN: 10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES-II NO II IF NO, EXPLAIN: 11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES DINO. IF YES, EXPLAIN: 12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES D NOT IF YES, WHAT ANALYSES? PLEASE NOTIFY LABORATORY ANALYSTS! 13. IS SUBCONTRACTING REQUIRED? YES D NO IF YES, WHAT ANALYSES? 14. WAS THE CLIENT CONTACTED? YES INO IF YES, FILL OUT THE FOLLOWING: MR EMPLOYEE INITIALS: CLIENT SPOKEN TO: DATE/TIME: OUTCOME: SIGNATURE: L60.30.A r2 Sample Receipt Form For MR Use Only

Page 8 of 8



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Lab ID#: 8100889

13 November 2018

Dave Panasiti Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland, PA 16881

RE: Woodland, PA

Enclosed are the results of analyses for samples received by the laboratory on 10/26/18 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe

Assistant Laboratory Manager

Stephen Dampe

Authorized Reviewer



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8100889 Reported: 11/13/18 14:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
SB-13	8100889-01	Solid	Grab	10/26/18 14:30	10/26/18 16:45
SB-14	8100889-02	Solid	Grab	10/26/18 12:21	10/26/18 16:45
SB-18	8100889-03	Solid	Grab	10/25/18 13:57	10/26/18 16:45
SB-17	8100889-04	Solid	Grab	10/25/18 13:57	10/26/18 16:45

Mountain Research, LLC

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Stephen Dample



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8100889 Reported: 11/13/18 14:48

EPA 8260 B

JMG

JMG

JMG

DI

DI

CC, DI

SB-13

8100889-01 (Solid) Sampled: 10/26/18 14:30

			No. of the last	ETON CENTRAL	Vandagara e					
Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
			Mountain	Research, LLC						
General Chemistry									-	
Total Solids	82.2	1.00	wt%	10/29/18 15:30	10/29/18 15:30		SM(22) 2540 G-1997	A	LRB	
Volatile Organic Compounds by GC/MS									16	01
1,2,4-Trimethylbenzene	29100	2430	μg/Kg dry	11/03/18 13:35	11/03/18 13:35	EPA 5035	EPA 8260 B	Α	JMG	DI
1,3,5-Trimethylbenzene	8470	2430	μg/Kg dry	11/03/18 13:35	11/03/18 13:35	EPA 5035	EPA 8260 B	A	JMG	DI
Benzene	<2430	2430	μg/Kg dry	11/03/18 13:35	11/03/18 13:35	EPA 5035	EPA 8260 B	A	JMG	DI
Ethylbenzene	13300	2430	µg/Kg dry	11/03/18 13:35	11/03/18 13:35	EPA 5035	EPA 8260 B	A	JMG	DI
Isopropylbenzene (Cumene)	2940	2430	µg/Kg dry	11/03/18 13:35	11/03/18 13:35	EPA 5035	EPA 8260 B	A	JMG	DI
мтве	<2430	2430	μg/Kg dry	11/03/18 13:35	11/03/18 13:35	EPA 5035	EPA 8260 B	A	JMG	DI
Naphthalene	2740	2430	μg/Kg dry	11/03/18 13:35	11/03/18 13:35	EPA 5035	EPA 8260 B	A	JMG	DI, L
Toluene	38100	2430	μg/Kg dry	11/03/18 13:35	11/03/18 13:35	EPA 5035	EPA 8260 B	A	JMG	DI
a water to			Albert Contract Contract							

11/03/18 13:35

11/03/18 13:35 4870 11/03/18 13:35 EPA 5035 EPA 8260 B 62700 μg/Kg dry Xylene p/m 11/03/18 13:35 11/03/18 13:35 EPA 5035 EPA 8260 B 86400 7300 μg/Kg dry Xylenes, Total 11/03/18 13:35 11/03/18 13:35 EPA 8260 B 80-120 101% Surrogate: 1,2-Dichloroethane-d4 EPA 8260 B Surrogate: 4-Bromofluorobenzene 108 % 80-120 11/03/18 13:35 11/03/18 13:35 80-120 11/03/18 13:35 11/03/18 13:35 EPA 8260 B 100 % Surrogate: Dibromofluoromethane 100 % 80-120 11/03/18 13:35 11/03/18 13:35 EPA 8260 B Surrogate: Toluene-d8

μg/Kg dry

2430

23700

Mountain Research, LLC

Xylene o

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.

11/03/18 13:35

EPA 5035

Stephen Dample



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8100889 Reported: 11/13/18 14:48

SB-14

8100889-02 (Solid) Sampled: 10/26/18 12:21

Analyte	Result	RL.	Units	Prepared	Analyze	d Prep Me	ethod Method	Lab	Analyst	Notes
			Mountain F	Research, LLC						
General Chemistry										
Total Solids	94.2	1,00	wt%	10/29/18 15:30	10/29/18 15	5:30	SM(22) 2540 G-1997	A	LRB	
Volatile Organic Compounds by GC/MS									1)	01
1,2,4-Trimethylbenzene	<3.06	3.06	µg/Kg dry	11/07/18 04:09	11/07/18 04	1:09 EPA 5	035 EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<3.06	3.06	μg/Kg dry	11/07/18 04:09	11/07/18 04	1:09 EPA 5	035 EPA 8260 B	A	JMG	
Benzene	<3.06	3.06	µg/Kg dry	11/07/18 04:09	11/07/18 04	1:09 EPA 5	035 EPA 8260 B	A	JMG	
Ethylbenzene	<3.06	3.06	μg/Kg dry	11/07/18 04:09	11/07/18 04	1:09 EPA 5	035 EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<3.06	3.06	μg/Kg dry	11/07/18 04:09	11/07/18 04	k:09 EPA 5	035 EPA 8260 B	A	JMG	
MTBE	<3.06	3.06	µg/Kg dry	11/07/18 04:09	11/07/18 04	4:09 EPA 5	035 EPA 8260 B	A	JMG	
Naphthalene	5.83	3.06	µg/Kg dry	11/07/18 04:09	11/07/18 04	4:09 EPA 5	035 EPA 8260 B	A	JMG	
Toluene	<3.06	3.06	μg/Kg dry	11/07/18 04:09	11/07/18 04	1:09 EPA 5	035 EPA 8260 B	A	JMG	
Xylene o	<3.06	3.06	μg/Kg dry	11/07/18 04:09	11/07/18 04	4:09 EPA 5	035 EPA 8260 B	A	JMG	
Xylene p/m	<6.11	6.11	μg/Kg dry	11/07/18 04:09	11/07/18 04	4:09 EPA 5	035 EPA 8260 B	A	JMG	
Xylenes, Total	<9.17	9.17	μg/Kg dry	11/07/18 04:09	11/07/18 0	4:09 EPA 5	035 EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		105 %	80-120	11/07/1	8 04:09	11/07/18 04:09	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		103 %	80-120	11/07/1	8 04:09	11/07/18 04:09	EPA 8260 B			
Surrogate: Dibromofluoromethane		98.7%	80-120	11/07/1	8 04:09	11/07/18 04:09	EPA 8260 B			
Surrogate: Toluene-d8		100 %	80-120	11/07/1	8 04:09	11/07/18 04:09	EPA 8260 B			

Mountain Research, LLC

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Stephen Dample.



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881

Benzene

Ethylbenzene

Naphthalene

Isopropylbenzene (Cumene)

Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8100889 Reported: 11/13/18 14:48

JMG

JMG

JMG

JMG

JMG

JMG

JMG

A

A JMG

A JMG

DI

DI

DI, X

DI.X

CC, D1,

EPA 8260 B

SB-18

8100889-03 (Solid) Sampled: 10/25/18 13:57

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
			Mountain	Research, LLC						
Géneral Chemistry										
Total Solids	89.1	1.00	wt%	11/01/18 16:20	11/01/18 16:20		SM(22) 2540 G-1997	A	LRB	
Volatile Organic Compounds by GC/MS										01
1,2,4-Trimethylbenzene	12200	225	µg/Kg dry	11/03/18 01:27	11/07/18 20:50	EPA 5035	EPA 8260 B	A	JMG	D1, X
1,3,5-Trimethylbenzene	48.8	1,81	μg/Kg dry	11/03/18 01:27	11/03/18 01:27	EPA 5035	EPA 8260 B	A	JMG	
CARL AND COLD FORM CONTRACTOR OF THE PROPERTY.				Colonia Carried Colonia Colonia	to the second second second second		product or a decisal facility facility			

11/03/18 01:27

11/03/18 01:27

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11/03/18 01:27

11/07/18 20:50

11/07/18 20:50

11/03/18 01:27

11/03/18 01:27

11/03/18 01:27

EPA 5035

EPA 5035

EPA 5035

EPA 5035

EPA 5035

rapituatene	10000								
Toluene	18200	225	μg/Kg dry	11/03/18 01:27	11/07/11	8 20:50	EPA	5035	EPA 8260 B
Xylene o	10500	225	µg/Kg dry	11/03/18 01:27	11/07/13	8 20:50	EPA	5035	EPA 8260 B
Xylene p/m	24600	449	μg/Kg dry	11/03/18 01:27	11/07/13	8 20:50	EPA	5035	EPA 8260 B
Xylenes, Total	35100	674	μg/Kg dry	11/03/18 01:27	11/07/11	8 20:50	EPA	5035	EPA 8260 B
Surrogate: 1,2-Dichloroethane-d4		101 %	80-120	11/03/1	8 01:27	11/03/18	01:27	EPA 820	60 B
Surrogate: 4-Bromofluorobenzene		108 %	80-120	11/03/	8 01:27	11/03/18	01:27	EPA 820	50 B
Surrogate: Dibromofluoromethane		102 %	80-120	11/03/	18 01:27	11/03/18	01:27	EPA 820	50 B
Surrogate: Toluene-d8		95.4 %	80-120	11/03/	18 01:27	11/03/18	01:27	EPA 820	60 B

462

6130

32.9

4.21

6.31

225

225

1.81

1.81

1.81

μg/Kg dry

µg/Kg dry

μg/Kg dry

µg/Kg dry

µg/Kg dry

Mountain Research, LLC

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Stephen Nample.



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8100889 Reported: 11/13/18 14:48

SB-17

8100889-04 (Solid) Sampled: 10/25/18 13:57

Analyte	Result	RL	Units	Prepared	Analy	yzed	Prep Me	thod Method	Lab	Analyst	Notes
			Mountain F	Research, LLC							
General Chemistry						-				- Mary 1	
Total Solids	88.0	1.00	wt%	10/29/18 15:30	10/29/13	8 15:30		SM(22) 25 G-1997	0 A	LRB	
Volatile Organic Compounds by GC/MS											
1,2,4-Trimethylbenzene	81,5	2.26	μg/Kg dry	11/03/18 01:55	11/03/18	8 01:55	EPA 5	035 EPA 8260	B A	JMG	
1,3,5-Trimethylbenzene	25.1	2.26	μg/Kg dry	11/03/18 01:55	11/03/11	8 01:55	EPA 5	035 EPA 8260	B A	IMG	
Benzene	<227	227	μg/Kg dry	11/03/18 01:55	11/07/18	8 21:16	EPA 5	035 EPA 8260	BA	JMG	DI
Ethylbenzene	1900	227	µg/Kg dry	11/03/18 01:55	11/07/13	8 21:16	EPA 5	035 EPA 8260	B A	IMG	DI
Isopropylbenzene (Cumene)	18.3	2.26	μg/Kg dry	11/03/18 01:55	11/03/13	8 01:55	EPA 5	035 EPA 8260	B A	JMG	
мтве	3.27	2.26	μg/Kg dry	11/03/18 01:55	11/03/13	8 01:55	EPA 5	035 EPA 8260	B A	JMG	
Naphthalene	3.67	2.26	μg/Kg dry	11/03/18 01:55	11/03/1	8 01:55	EPA 5	035 EPA 8260	B. A	JMG	
Toluene	4110	227	µg/Kg dry	11/03/18 01:55	11/07/13	8 21:16	EPA 5	035 EPA 8260	B A	JMG	DI
Xylene o	2860	227	μg/Kg dry	11/03/18 01:55	11/07/13	8 21:16	EPA 5	035 EPA 8260	BA	JMG	DI
Xylene p/m	7320	455	μg/Kg dry	11/03/18 01:55	11/07/1	8 21:16	EPA 5	035 EPA 8260	B A	JMG	DI
Xylenes, Total	10200	682	µg/Kg dry	11/03/18 01:55	11/07/1	8 21:16	EPA 5	035 EPA 8260	BA	JMG	CC, D
Surrogate: 1,2-Dichloroethane-d4		103 %	80-120	11/03/1	8 01:55	11/03/18	01:55	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		106 %	80-120	11/03/1	8 01:55	11/03/18	01:55	EPA 8260 B			
Surrogate: Dibromofluoromethane		100 %	80-120	11/03/1	8 01:55	11/03/18	01:55	EPA 8260 B			
Surrogate: Toluene-d8		98.8 %	80-120	11/03/1	8 01:55	11/03/18	01:55	EPA 8260 B			

Mountain Research, LLC

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Stephen Dampe



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8100889 Reported: 11/13/18 14:48

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2018
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2019
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018

Notes and Definitions

- X The result is estimated because it was over the analysis calibration range.
- O1 The VOC vial contained an amount of soil outside the EPA recommendation.
- The laboratory control spike did not meet laboratory acceptance criteria. The associated analytical results may be biased high.
- D1 The sample was analyzed at a dilution.
- CC Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
- RL. Reporting Limit either the practical quantitation limit or the method detection limit
- dry Sample results reported on a dry weight basis
- A Analysis Performed by Mountain Research Altoona Laboratory PADEP #07-00418, WVDEP #225
- D Analysis Performed by Mountain Research DuBois Laboratory PADEP # 33-00258
- W Analysis Performed by Mountain Research HydroChem Laboratory WVDEP #038

Mountain Research, LLC

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.

Stephen Gampe, Assistant Laboratory Manager

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DEN	LEIN
TIME	OTT
TI	TITLE
0	DA

ALINOUSEED BY. SITE LOCATION AND PA TO MCRIGHTS RAMPLER(S) ALIN OF CUSTODY RECORD ALIN OF CUSTODY	Billing Group: Phase:	PROJECT NAME WOOD (UNC	ane F	alle	1 Fuel	825 25th Street, Altoona, PA 16601	t, Altoona,	PA 16601	MOUN	TAIN	MOUNTAIN RESEARCH LLC (814) 949-2034 (800) 837-	837-	
WILLE ID. NO. DATE TIME GRAB CONTAINERS SHED BY: SHED BY: WHILE ID. NO. DATE TIME ACCEPTED BY: SHED BY: A MANUAL AND	4923. [8.0]	SITELOCAT	10	Z	1971	110 McCracke	n Run Ros	d, Dubois	, PA 1580	TORON	(814) 371-6030 Fax (814)	814)	
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1979.18.01	SITE LOCATION	In	PA		110 McCracken Run Road, Dubois, PA 15801	Run Ros	id, Dubois	PA 15801	(814) 371-6030 Fax (814) 375-0823	814) 375-0823	1666-646 (410)
CLIENT, 11	11	1 -1	SAMPLER(S))				CHAIN	CHAIN OF CUSTODY RECORD		
Machina	2/201	rue						Analy	Analyses Requested	MR PROJ. MGR.	CR. () H
Not less Received On Ice: Ø / N /	3									Shipping Carrier.	Shipping Carrier:
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MOUNTAIN RESEARCH LLC		MPLER(S) CHAIN OF CUSTODY RECORD	Analyses Requested MR PROJ. MGR. CH	Shipping Car NUMBER OF CONTAINERS SOUCH MATRIX COMP MATRIX	soil 3-40 th	X 46 700 1	7				A Computer a so.	
150	PA AG	SAMPLER(S)	S P	J. H. GAS COMP 1	×)					Small
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PROJECT NAME	SITE LOCATION NO SCHOOL	12 1 ch	2000	Ogke Hw	81/2/19							-
Billing Group: Phase;	MR Project# 4923/18/10	CLIENT	1	Received On Toe (Y) N Sample Tramp PWSID # Seal In Fack Y N Other Comments:	や一次	56-18					RELINQUISHED BY:	n land

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MR Project #	SITE LOCATION WOOGHA	Mand	Z		110 McCracken Run Road, Dubois, PA 15801	n Run Ro	ad, Duboi	s, PA 15801	(814	(814) 371-6030 Fax (814) 375-0823	4) 375-0823	314) 949-9391
CLIENT, // /	111	1	SAMPLER(S)	(S)				CHAIN	CHAIN OF CUSTODY RECORD	Y RECORD		
NOWWAN	2/2	Tue						Anal	Analyses Requested	ted	MR PROJ. MGR.	R. () H
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58-17	10-25-18 13:57	13:57	×	1,98	3-40mL	24	×				Na.500	40
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MELINQUISHER BY: AM	4	DATE IO 24 / 18	TIME. AC	ACCEPTED BY:				DATE TIME	Lab WO#:	8100889	Log In Time:	1012
RELINQUISHED-BY:	111	197E.	TIME	TIME ACCEPTED BY:	A Comment	1	1	DATE " TIME	Labeled By:		Staff.	1

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

L60.30.A r2 Sample Receipt Form

CLIENT: Woodland Food & Fire! DATE SAMPLED: 1026-19 DATE RECEIVED: 1026-18 TIME RECEIVED: 16145 1. CHECK ALL THAT APPLY: PATWY D MD D P W S D NPDES/COMPLIANCE D DAIRY D RUSH D 2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES D NO ... IF YES, EXPLAIN: 3. NUMBER OF CONTAINERS RECEIVED: 4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES NO U IF NO, EXPLAIN: 5. RECEIVING TEMP: 53 °C TEMP CONTROL(S) PRESENT YES | NO BOTTLE(S) TEMPED: 6. WERE THE SAMPLES PROPERLY PRESERVED? IF NO, EXPLAIN: 7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES IN NO IF NO, EXPLAIN: 8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES IN NO N/A 9. WAS THE COC FILLED OUT PROPERLY? IF NO, EXPLAIN: 10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES 6 NO I IF NO, EXPLAIN: 11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES D NO IF YES, EXPLAIN: 12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES DO NO & IF YES, WHAT ANALYSES? PLEASE NOTIFY LABORATORY ANALYSTS! 13. IS SUBCONTRACTING REQUIRED? YES IN NO IF YES, WHAT ANALYSES? 14. WAS THE CLIENT CONTACTED? YES D NO D IF YES, FILL OUT THE FOLLOWING: MR EMPLOYEE INITIALS: CLIENT SPOKEN TO: OUTCOME: SIGNATURE:

For MR Use Only

Page 12 of 12





DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Lab ID #: 8100888

13 November 2018

Dave Panasiti Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland, PA 16881

RE: Woodland, PA

Enclosed are the results of analyses for samples received by the laboratory on 10/30/18 16:56. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe

Assistant Laboratory Manager

Stephen Tampe

Authorized Reviewer



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8100888 Reported: 11/13/18 14:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
SB-16	8100888-01	Solid	Grab	10/29/18 16:04	10/30/18 16:56
SB-15	8100888-02	Solid	Grab	10/30/18 08:46	10/30/18 16:56

Mountain Research, LLC

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.

Stephen Dample



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8100888 Reported: 11/13/18 14:36

SB-16

8100888-01 (Solid) Sampled: 10/29/18 16:04

Analyte	Result	RL	Units	Prepared	Analyz	ed Prep	Method	Method	Lab	Analyst	Notes
			Mountain F	Research, LLC							
General Chemistry										-	
Total Solids	84.9	1.00	wt%	11/01/18 16:20	11/01/18 1	16:20		SM(22) 2540 G-1997	A	LRB	
Volatile Organic Compounds by GC/MS						and the second	A112				
1,2,4-Trimethylbenzene	487	235	μg/Kg dry	11/07/18 19:56	11/07/18 1		A 5035	EPA 8260 B		JMG	
1,3,5-Trimethylbenzene	<235	235	µg/Kg dry	11/07/18 19:56	11/07/18 1		A 5035	EPA 8260 B	A	JMG	
Benzene	<235	235	µg/Kg dry	11/07/18 19:56	11/07/18 1	19:56 EF	A 5035	EPA 8260 B	A	JMG	
Ethylbenzene	<235	235	μg/Kg dry	11/07/18 19:56	11/07/18	19:56 EF	A 5035	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<235	235	μg/Kg dry	11/07/18 19:56	11/07/18	19:56 EF	A 5035	EPA 8260 B	A	JMG	
MTBE	<235	235	μg/Kg dry	11/07/18 19:56	11/07/18	19:56 EF	A 5035	EPA 8260 B	A	JMG	
Naphthalene	563	235	μg/Kg dry	11/07/18 19:56	11/07/18	19:56 EF	A 5035	EPA 8260 B	٨	JMG	
Toluene	2080	235	µg/Kg dry	11/07/18 19:56	11/07/18	19:56 EI	A 5035	EPA 8260 B	A.	JMG	
Xylene o	<235	235	μg/Kg dry	11/07/18 19:56	11/07/18	19:56 EF	PA 5035	EPA 8260 B	A	JMG	
Xylene p/m	<471	471	μg/Kg dry	11/07/18 19:56	11/07/18	19:56 EI	PA 5035	EPA 8260 B	A	JMG	
Xylenes, Total	<706	706	μg/Kg dry	11/07/18 19:56	11/07/18	19:56 EI	PA 5035	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		97.1%	80-120	11/07/1	18 19:56	11/07/18 19:56	EPA 8260	B			
Surrogate: 4-Bromofluorobenzene		107 %	80-120	11/07/1	18 19:56	11/07/18 19:56	EPA 8260	B			
Surrogate: Dibromofluoromethane		99.6%	80-120	11/07/1	18 19:56	11/07/18 19:56	EPA 8260	B			
Surrogate: Toluene-d8		100 %	80-120	11/07/1	18 19:56	11/07/18 19:56	EPA 8260	B			

Mountain Research, LLC

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.

Stephen Tampe.



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

EPA 5035

EPA 5035

EPA 5035

11/03/18 00:59

11/03/18 00:59

EPA 8260 B

DI

DI

CC, DI

JMG

JMG

JMG

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881

Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe

Lab ID#: 8100888 Reported: 11/13/18 14:36

SB-15

8100888-02 (Solid) Sampled: 10/30/18 08:46

	- 17	1000	C. Mallor Street, C.	The state of the s				_		
Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
			Mountain	Research, LLC						
General Chemistry									-	
Total Solids	93.0	1.00	wt%	11/01/18 16:20	11/01/18 16:20		SM(22) 2540 G-1997	A	LRB	
Volatile Organic Compounds by GC/MS								_	The same	- 07
1,2,4-Trimethylbenzene	373	215	µg/Kg dry	11/03/18 00:59	11/07/18 20:23	EPA 5035	EPA 8260 B	A	JMG	DI
1,3,5-Trimethylbenzene	35.1	1.96	μg/Kg dry	11/03/18 00:59	11/03/18 00:59	EPA 5035	EPA 8260 B	A	JMG	
Benzene	354	215	μg/Kg dry	11/03/18 00:59	11/07/18 20:23	EPA 5035	EPA 8260 B	A	JMG	DI
Ethylbenzene	386	215	μg/Kg dry	11/03/18 00:59	11/07/18 20:23	EPA 5035	EPA 8260 B	A	JMG	DI
Isopropylbenzene (Cumene)	15.9	1.96	μg/Kg dry	11/03/18 00:59	11/03/18 00:59	EPA 5035	EPA 8260 B	A	JMG	
MTBE	<1.96	1.96	μg/Kg dry	11/03/18 00:59	11/03/18 00:59	EPA 5035	EPA 8260 B	A	JMG	
Naphthalene	19.8	1.96	μg/Kg dry	11/03/18 00:59	11/03/18 00:59	EPA 5035	EPA 8260 B	A	JMG	
Toluene	3610	215	μg/Kg dry	11/03/18 00:59	11/07/18 20:23	EPA 5035	EPA 8260 B	A	JMG	DI

11/03/18 00:59

11/03/18 00:59

11/03/18 00:59

11/07/18 20:23

11/07/18 20:23

11/07/18 20:23

11/03/18 00:59

11/03/18 00:59

Surrogate: 4-Bromofluorobenzene EPA 8260 B 106% 80-120 11/03/18 00:59 11/03/18 00:59 Surrogate: Dibromofluoromethane 11/03/18 00:59 11/03/18 00:59 EPA 8260 B 93.5 % 80-120 Surrogate: Toluene-d8

215

430

645

107%

109 %

715

1730

2440

μg/Kg dry

μg/Kg dry

μg/Kg dry

80-120

80-120

Mountain Research, LLC

Toluene

Xylene o

Xylene p/m

Xylenes, Total

Surrogate: 1,2-Dichloroethane-d4

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.



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8100888 Reported: 11/13/18 14:36

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2018
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2019
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018

Notes and Definitions

DI	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
٨	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

Mountain Research, LLC

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.

Stephen Dample

23,18,10	No	Nochous	PA		110 McCı	acken Rur	110 McCracken Run Road, Dubois, PA 15801	bois; PA 1.	5801	(814)	(814) 371-6030 Fax (1		
Har	Food & Feel		SAMPLER(S)	ER(S)	1	+	-	CH	AIN OF	CUSTODY	CHAIN OF CUSTODY RECORD		
Ž		,			- EXE				Analyses	Analyses Requested	d	MR PROJ. MGR.	MGR.
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Officer					NIATNO	3		891		-		3 Day 1 Day	
Comments					EE OF C	ICT COD	ष्ठिश	105 9				Comments:	nts:
SAMPLE ID,NO.	DATE	TIME	GRAB	COMP MATRIX		KODI	3	16		_			
58-16	81/20/01	1604		lina	2-2	1	1		+	i		Preserve	LABNUMBER
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RELINQUISHED BY:		10/20/16 DATE	TIME AC	SEPTED BY:	3		10	BATE TIME	1 JAS P Cab WO#	218 0	8889018	Log fo Time:	NO TO
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BALL POINT PEN ONLY

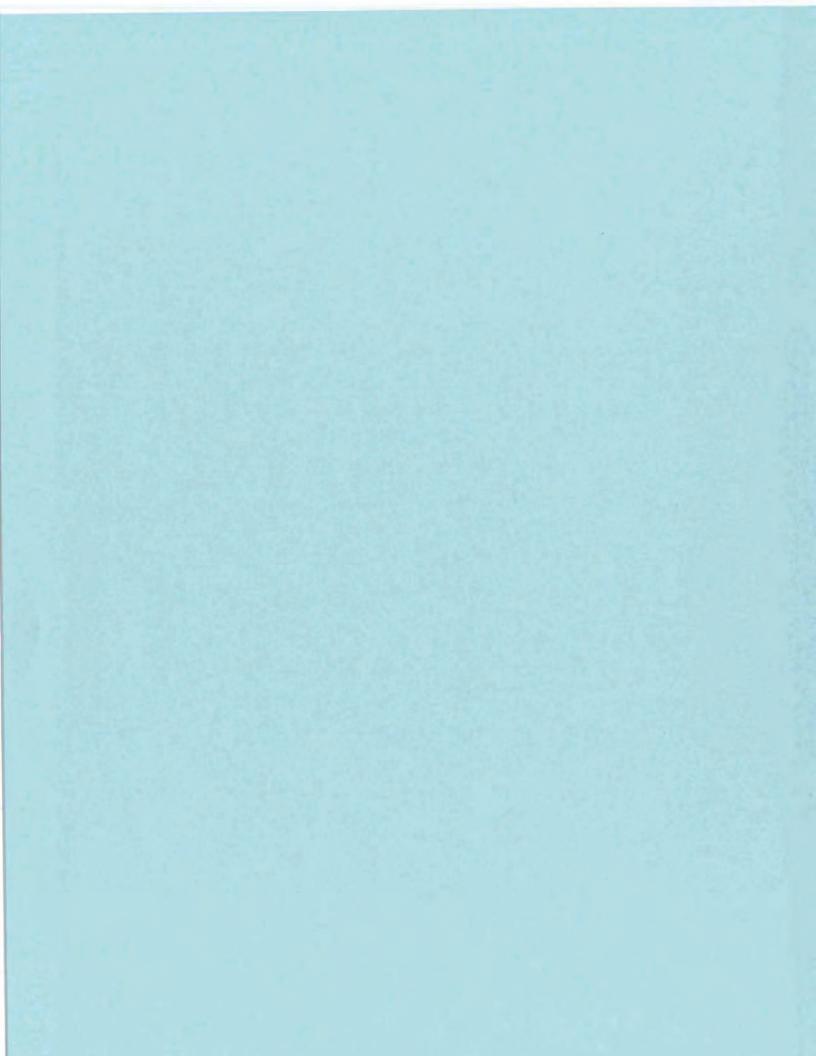
MOUNTAIN RESEARCH LLC (814) 949-2034 (800) 837-4674 EAX (814) 949-9591 (814) 371-6030 Fax (814) 375-0823	CHAIN OF CUSTODY RECORD	Analyses Requested MR PROJ. MGR. 75 1.4	er	Turn Around Time:	Comments:		Preserve LAB NUMBER		N-20	2000	THE PARTY OF THE P	The control of the co			The State Contract of States
MOUN 825 25th Street, Altoona, PA 16601 110 McCracken Run Road, Dubois; PA 15801	CHAI	Ar		\$	9976 9976	23	×	×	×					- 1	10/30/2 Cey
825 25th Street, . 110 McCracken		F		LVINEES	ER OF CON		720	20	1-403	,				1	Ros
at & had	SAMPLER(S)	C NO				GRAB COMP MATRIX	X soil	-	}		4 1			TIME ACCEPTED/81/	TIME ACCEPTED BY:
SITE LOCATION	12	3				DATE TIME	1/8 0646								DATE DATE
# SIT	CLIENT CLIENT	1	Received On Loc.($m{j}$) . N . Sample Tamp.	PWSRD#. Sea in Fack: 'Y' in	Comments	MPLE ID.NO.	SB- 15 10/20/18							RELINQUISHED BY:	3

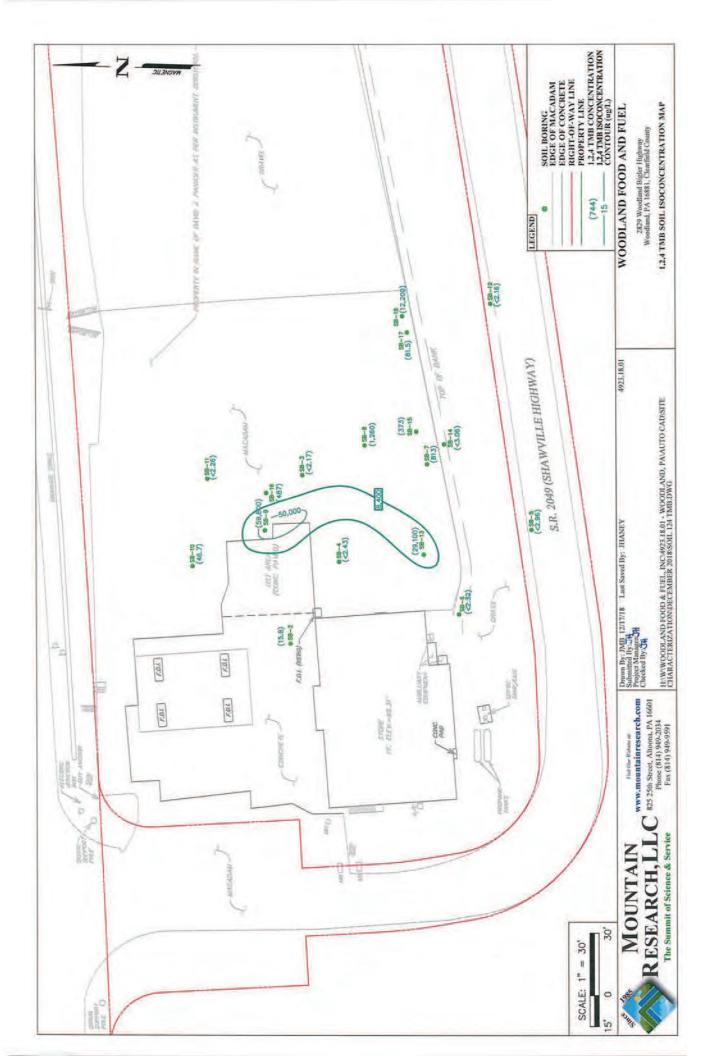
White - Lab; Blue - File; Yellow - Project Manager, Pink - Staff

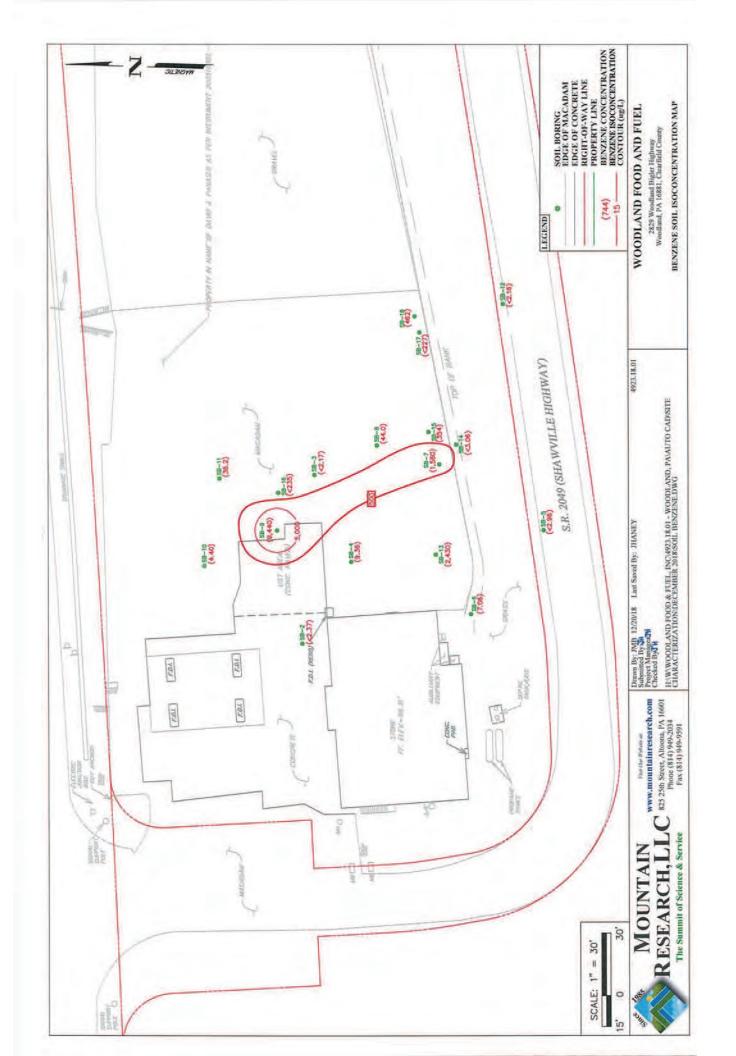
MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

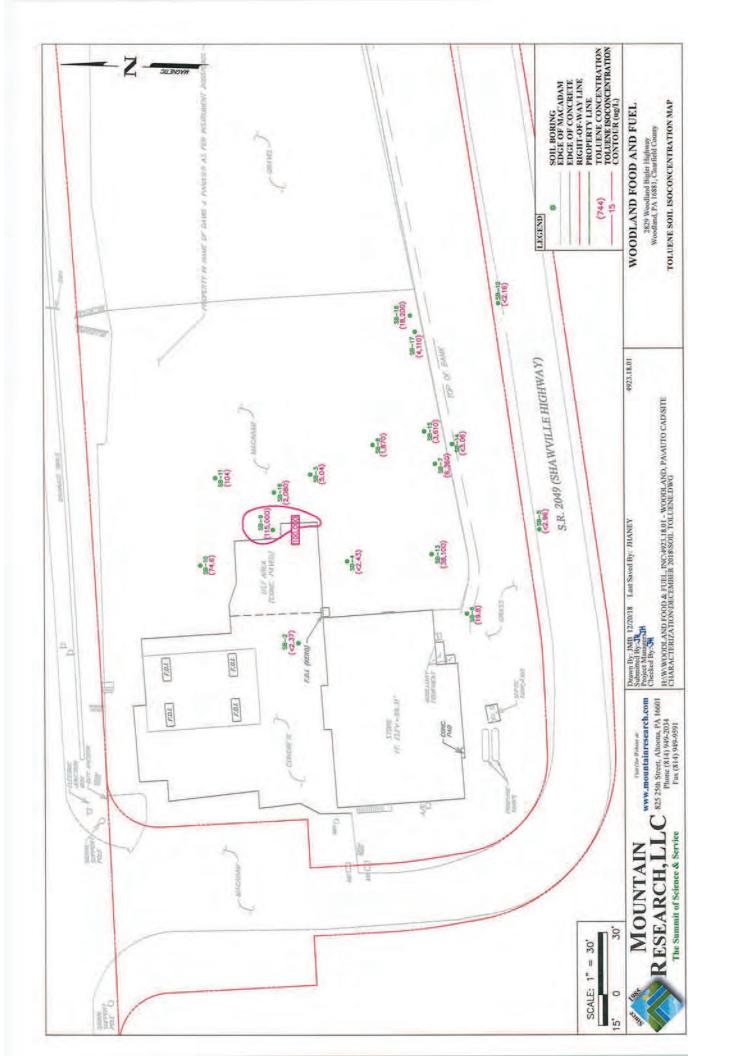
WORK ORDER: CLIENT:	colland Food o.	Fuel	ng v
DATE SAMPLED: 10	DATE RECEIVED: 10/8	W/W TIME RECEIVED: 16	54 MANAGEMENT
1. CHECK ALL THAT APPLY:	PAO WVo MDo PWSo N	PDES/COMPLIANCE DAIR	RY D RUSH D
2. WERE ANY OF THE SAMPLE	CONTAINERS DAMAGED/LEAKING	? (ARE CUSTODY SEALS BROKE	en?) YES O NO
IF YES, EXPLAIN:	4		
3. Number Of Containers Re	SCEIVED: 5 +5	-10	
4. WERE THE SAMPLES RECEIVE	ED ON ICE/OTHER ACCEPTABLE R	EFRIGERANT? YES NO	1
If No, Explain:			
	TEMP CONTROL(S) PRESENT YES		D:
	LY PRESERVED? YES		
IF NO, EXPLAIN:			
	TED IN THE CORRECT CONTAINER	10.5	-1-
F No. Explain:			
	VT FOR VOLATILES/ODOR SAMPLES		
	PROPERLY? YES		
	Service description of the service		
	ONTAIN ADEQUATE INFO? (CLIEN		YES NO
. 7 E V			
11. WERE ANY OF THE SAMPLES	RECEIVED OUTSIDE OF HOLDING	TIME? YES D NO	
F YES, EXPLAIN:			
2. Do The Samples Require A	NALYSES THAT HAVE A SHORT HO	OLDING TIME? YES O NO O	
F YES, WHAT ANALYSES?		PLEASE N	NOTHY LABORATORY ANALYSTS
3. Is Subcontracting Require	ED? YES D NO D		
f Yes, What Analyses?			
4. Was The Client Contacted	0? YES 0 NO 0 IF YES, F	ILL OUT THE FOLLOWING:	
IR Employee Initials:	CLIENT SPOKEN TO:		DATE/TIME:
	Comments and Mildell & Ma		-CARAMI A MITALIE
OUTCOME:			
Wan			
GORATURE: COMPANY OF THE STATE		(Maria)	MD II - O I
60.30.A r2 Sample Receipt Form		For	MR Use Only

Page 8 of 8













DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Lab ID #: 8030232

21 March 2018

Dave Panasiti Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland, PA 16881

RE: Woodland, PA

Enclosed are the results of analyses for samples received by the laboratory on 03/08/18 07:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe

Assistant Laboratory Manager

Stephen Darpe

Authorized Reviewer



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030232 Reported: 03/21/18 10:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-4/SB-4	8030232-01	Solid	Grab	03/07/18 13:55	03/08/18 07:00

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

Page 2 of 6



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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923,18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030232 Reported: 03/21/18 10:24

MW-4/SB-4

8030232-01 (Solid) Sampled: 03/07/18 13:55

Analyte	Result	RL	Units	Prepared	Analyz	zed Prep l	Method Method	Lab	Analyst	Notes
			Mountain I	Research, LLC						
General Chemistry										
Total Solids	82.3	1.00	wt%	03/15/18 18:00	03/15/18	18:00	SM(22) 25 G-1997	40 A	STG	
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	<2.43	2.43	µg/Kg dry	03/12/18 17:17	03/12/18	17:17 EPA	5035 EPA 8260	B A	JMG	
1,3,5-Trimethylbenzene	<2.43	2.43	μg/Kg dry	03/12/18 17:17	03/12/18	17:17 EPA	5035 EPA 8260	B A	JMG	
Benzene	9.36	2.43	μg/Kg dry	03/12/18 17:17	03/12/18	17:17 EPA	5035 EPA 8260	B A	JMG	
Ethylbenzene	<2.43	2.43	µg/Kg dry	03/12/18 17:17	03/12/18	17:17 EPA	5035 EPA 8260	BA	JMG	
Isopropylbenzene (Cumene)	<2.43	2.43	μg/Kg dry	03/12/18 17:17	03/12/18	17:17 EPA	5035 EPA 8260	BA	JMG	
МТВЕ	6.35	2.43	µg/Kg dry	03/12/18 17:17	03/12/18	17:17 EPA	5035 EPA 8260	B A	JMG	
Naphthalene	2.46	2.43	µg/Kg dry	03/12/18 17:17	03/12/18	17:17 EPA	5035 EPA 8260	B A	JMG	
Toluene	<2.43	2.43	µg/Kg dry	03/12/18 17:17	03/12/18	17:17 EPA	5035 EPA 8260	B A	JMG	
Xylene o	<2,43	2.43	μg/Kg dry	03/12/18 17:17	03/12/18	17:17 EPA	5035 EPA 8260	B A	JMG	
Xylene p/m	<4.86	4.86	μg/Kg dry	03/12/18 17:17	03/12/18	17:17 EPA	5035 EPA 8260	B A	JMG	
Xylenes, Total	<7.29	7.29	μg/Kg dry	03/12/18 17:17	03/12/18	17:17 EPA	5035 EPA 8260	B A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		105 %	80-120	03/12/	18 17:17	03/12/18 17:17	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		99.2 %	80-120	03/12/	18 17:17	03/12/18 17:17	EPA 8260 B			
Surrogaie; Dibromofluoromethane		116 %	80-120	03/12/	18 17:17	03/12/18 17:17	EPA 8260 B			
Surrogate: Toluene-d8		98.0 %	80-120	03/12/	18 17:17	03/12/18 17:17	EPA 8260 B			

Mountain Research, LLC

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Stephen Dample



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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923,18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8030232 Reported: 03/21/18 10:24

Certifications

Code	Description	Number	Expires	
MDDOE	Maryland Department of the Environment	257	06/30/2018	
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018	
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018	
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018	
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018	

Notes and Definitions

CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL.	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

Mountain Research, LLC

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Stephen Dampe

		MR PROJ. MGR. 5 H Shipping Carrier. Turn Around Time: 10 Day 3 Day 1 Day Comments:		Arani Arani	VALUE OF O	Nove			Log In Time: 1484	77
MOUNTAIN RESEARCH LLC (814) 949-2034 (800) (814) 371-6030 Fax (CHAIN OF CUSTODY RECORD								Lab Workorder #:	Labeled By:
.PA 15801		50170S 73/37 MO7	83,608 83,608		X	X			DATECTIME 2-8-18	DATE/TIME
825 25th Street, Altoona, PA 16601 110 McCracken Run Road, Dubois, PA 15801		L CODE	опаояч	24					Pa	
D FOOD & FUEL	SAMPLER(S) BA		TIME GRAB COMP MATRIX	X Soil		1			BATE TIME ACCEPTORISES	DATE TIME ACCEPTED BY:
Billing Group: Phase: PROJECT NAME SCA WOODLAND MR Project # SITE LOCATION 4923.18:01 WOODLAND CLIENT	(510's) 1000/ (50d)	Received On Ice: (V) / N Sample Temp: 2, / Comp Set	SAMPLE ID DATE	MW-4/5B-4 317/18 1355	4	9			должие ву. В 3/ 3/	PUISHED BY: DA

WORK ORDER: \$036232 CLIENT: WOOd! And

DATE SAMPLED: 3/	7/18 DATE RECEIVED: 3/8/287	TIME RECEIVED: 0 700	rie:
1. CHECK ALL THAT APPLY: I	PA WV - MD - PWS - NPDES/CO	OMPLIANCE DAIRY RUSH	
. WERE ANY OF THE SAMPLE O	CONTAINERS DAMAGED/LEAKING? (ARE CU	USTODY SEALS BROKEN?) YES - NO-	a
		the state and a property of the salperes of the	
Number Of Containers Rec	CEIVED:5		
	D ON ICE/OTHER ACCEPTABLE REFRIGERA		
	TEMP CONTROL(S) PRESENT YES D NO D		
	Y PRESERVED? YES NO D		
	TED IN THE CORRECT CONTAINERS? YES		
	T FOR VOLATILES/ODOR SAMPLES? YES I		
	ROPERLY? YESD-NO	A STATE OF THE PARTY OF THE PAR	
	ROPERCY! YESD-NOB		
	ONTAIN ADEQUATE INFO? (CLIENT/DATE/TII	THE PROPERTY OF THE PARTY OF TH	
NO, EXPLAIN:			
WERE ANY OF THE SAMPLES F	RECEIVED OUTSIDE OF HOLDING TIME? YE	ES a NO g	
YES, EXPLAIN:			
DO THE SAMPLES REQUIRE AN	ALYSES THAT HAVE A SHORT HOLDING TI	ME? YES O NOO	
ES, WHAT ANALYSES?		PLEASE NOTIFY LABORATORY	ANALYSTS!
IS SUBCONTRACTING REQUIRED	D? YES NOD		
ES, WHAT ANALYSES?			
WAS THE CLIENT CONTACTED?	YES NO NO IF YES, FILL OUT TO	HE FOLLOWING:	
EMPLOYEE INITIALS:	CLIENT SPOKEN TO:	DATE/TIME:	
TCOME;			
KO	20-		
NATURE:		For MR Use Only	
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Lab ID #: 8030689

06 April 2018

Dave Panasiti Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland, PA 16881

RE: Woodland, PA

Enclosed are the results of analyses for samples received by the laboratory on 03/23/18 14:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe

Assistant Laboratory Manager

Stephen Dampe

Authorized Reviewer



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomae Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab 1D#; 8030689 Reported; 04/06/18 10:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1	8030689-01	Aqueous	Grab	03/23/18 10:05	03/23/18 14:30
MW-2	8030689-02	Aqueous	Grab	03/23/18 09:35	03/23/18 14:30
MW-4	8030689-03	Aqueous	Grab	03/23/18 11:05	03/23/18 14:30
Trip Blank	8030689-04	Aqueous	Grab	03/23/18 07:30	03/23/18 14:30
MW-3	8030689-05	Aqueous	Grab	03/23/18 13:00	03/23/18 14;30

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Stephen Sample



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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923,18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8030689 Reported: 04/06/18 10:11

MW-1 8030689-01 (Aqueous) Sampled: 03/23/18 10:05

	0	050005-01 (/	requeous	Sampled: 03/2	3/10/10/03						
Analyte	Result	RL.	Units	Prepared	Analyze	d Prep M	Method	Method	Lab	Analyst	Notes
			Mountain 1	Research, LLC							
Volatile Organic Compounds by GC/MS	-										
1,2,4-Trimethylbenzene	133	20.0	µg/L	04/02/18 21:04	04/02/18 2	1:04 EPA	5030B	EPA 8260 B	٨	JMG	DI
1,3,5-Trimethylbenzene	37.9	20.0	µg/L	04/02/18 21:04	04/02/18 2	1:04 EPA:	5030B	EPA 8260 B	A	JMG	DI
Benzene	76.2	20.0	µg/L	04/02/18 21:04	04/02/18 2	1:04 EPA :	5030B	EPA 8260 B	A	JMG	DI
Ethylbenzene	77,5	20.0	µg/L	04/02/18 21:04	04/02/18 2	1:04 EPA	5030B	EPA 8260 B	A	JMG	DI
Isopropylbenzene (Cumene)	<20.0	20.0	µg/L	04/02/18 21:04	04/02/18 2	1:04 EPA :	5030B	EPA 8260 B	A	JMG	D1
MTBE	<20.0	20.0	μg/L	04/02/18 21:04	04/02/18 2	1:04 EPA	5030B	EPA 8260 B	A	JMG	DI
Naphthalene	20.4	20.0	µg/L	04/02/18 21:04	04/02/18 2	1:04 EPA:	5030B	EPA 8260 B	A	JMG	DI, V
Toluene	563	20.0	µg/L	04/02/18 21:04	04/02/18 2	1:04 EPA:	5030B	EPA 8260 B	A	JMG	DI
Xylene o	148	20.0	µg/L	04/02/18 21:04	04/02/18 2	1:04 EPA:	5030B	EPA 8260 B	A	JMG	DI
Xylene p/m	339	40.0	µg/L	04/02/18 21:04	04/02/18 2	1:04 EPA:	5030B	EPA 8260 B	٨	JMG	DI
Xylenes, Total	487	60.0	µg/L	04/02/18 21:04	04/02/18 2	1:04 EPA	5030B	EPA 8260 B	A	JMG	CC, D
Surrogate: 1,2-Dichloroethane-d4		92.7%	80-120	04/02/	18 21:04	04/02/18 21:04	EPA 8260 B	t-			
Surrogate: 4-Bromofluorobenzene		96.0%	80-120	04/02/	18 21:04	04/02/18 21:04	EPA 8260 B	1			
Surrogate: Dibromofluoromethane		104 %	80-120	04/02/	18 21:04	04/02/18 21:04	EPA 8260 B	6			
Surrogate: Toluene-d8		98,8 %	80-120	04/02/	18 21:04	04/02/18 21:04	EPA 8260 B				

Mountain Research, LLC

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8030689 Reported: 04/06/18 10:11

MW-2

8030689-02 (Aqueous) Sampled: 03/23/18 09:35

Analyte	Result	RL	Units	Prepared	Analyze	Prep N	lethod Meth	od L	h Analyst	Notes
			Mountain I	Research, LLC						
Volatile Organic Compounds by GC/MS								-		
,2,4-Trimethylbenzene	<2.00	2.00	μg/L	04/02/18 21:30	04/02/18 21	:30 EPA 5	030B EPA 82	60 B	IMG	
,3,5-Trimethylbenzene	<2.00	2.00	µg/L	04/02/18 21:30	04/02/18 21	:30 EPA 5	030B EPA 82	60 B	JMG	
Benzene	9.18	2.00	µg/L	04/02/18 21:30	04/02/18 21	:30 EPA 5	030B EPA 82	60 B	JMG	
Ethylbenzene	<2.00	2.00	mg/L	04/02/18 21:30	04/02/18 21	:30 EPA 5	030B EPA 82	60 B	JMG	
sopropylbenzene (Cumene)	<2.00	2.00	µg/L	04/02/18 21:30	04/02/18 21	:30 EPA :	030B EPA 82	60 B	JMG	
MTBE	11.7	2.00	µg/L	04/02/18 21:30	04/02/18 21	:30 EPA 3	030B EPA 83	60 B	JMG	
Naphthalene	<2.00	2,00	µg/L	04/02/18 21:30	04/02/18 21	:30 EPA 5	030B EPA 82	60 B	JMG	Y
Foluene	28.0	2.00	μg/L	04/02/18 21:30	04/02/18 21	:30 EPA 5	030B EPA 83	60 B	A JMG	
Kylene o	<2.00	2.00	µg/L	04/02/18 21:30	04/02/18 21	:30 EPA 5	6030B EPA 82	60 B	JMG	
Kylene p/m	<4.00	4.00	µg/L	04/02/18 21:30	04/02/18 21	:30 EPA 5	6030B EPA 82	60 B	IMG	
Kylenes, Total	<6.00	6.00	μg/L	04/02/18 21:30	04/02/18 21	1:30 EPA 5	6030B EPA 82	60 B	1 JMG	CC
Surrogate: 1,2-Dichloroethane-d4		89.8 %	80-120	04/02/	18 21:30 0	14/02/18 21:30	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		96.6 %	80-120	04/02/	18 21:30 0	4/02/18 21:30	EPA 8260 B			
Surrogate: Dibromofluoromethane		106 %	80-120	04/02/	18 21:30 0	4/02/18 21:30	EPA 8260 B			
Surrogate: Toluene-d8		100 %	80-120	04/02/	18 21:30	4/02/18 21:30	EPA 8260 B			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8030689 Reported: 04/06/18 10:11

MW-4

8030689-03 (Aqueous) Sampled: 03/23/18 11:05

Analyte	Result	RI,	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
			Mountain I	Research, LLC						
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	04/02/18 21:56	04/02/18 21:56	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	μg/L	04/02/18 21:56	04/02/18 21:56	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	2.89	2.00	µg/L	04/02/18 21:56	04/02/18 21:56	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2,00	µg/L	04/02/18 21:56	04/02/18 21:56	EPA 5030H	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	μg/L	04/02/18 21;56	04/02/18 21:56	EPA 5030B	EPA 8260 B	A	JMG	
МТВЕ	4.70	2.00	µg/L	04/02/18 21:56	04/02/18 21:56	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2,00	µg/L	04/02/18 21:56	04/02/18 21:56	EPA 5030B	EPA 8260 B	A	JMG	Y
Toluene	7.51	2.00	µg/L	04/02/18 21:56	04/02/18 21:56	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2,00	µg/L	04/02/18 21:56	04/02/18 21:56	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	μg/L	04/02/18 21:56	04/02/18 21:56	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6,00	µg/L	04/02/18 21:56	04/02/18 21:56	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		101 %	80-120	04/02/1	8 21:56 04/02/	18 21:56 EPA 820	60 B			
Surrogate: 4-Bromofluorobenzene		95.7 %	80-120	04/02/1	8 21:56 04/02/	18 21:56 EPA 82	60 B			
Surrogate: Dibromofluoromethane		104 %	80-120	04/02/1	8 21:56 04/02/	18 21:56 EPA 82	60 B			
Surrogate: Toluene-d8		98.1 %	80-120	04/02/1	18 21:56 04/02/	18 21:56 EPA 82	60 B			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030689 Reported: 04/06/18 10:11

Trip Blank

8030689-04 (Aqueous) Sampled: 03/23/18 07:30

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
			Mountain I	Research, LLC						
Volatile Organic Compounds by GC/N	IS				-					
1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	04/02/18 22:22	04/02/18 22:22	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	μg/L	04/02/18 22:22	04/02/18 22:22	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	04/02/18 22:22	04/02/18 22:22	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2,00	µg/L	04/02/18 22:22	04/02/18 22:22	EPA 5030B	EPA 8260 B	A	JMG	
sopropylbenzene (Cumene)	<2.00	2.00	μg/L	04/02/18 22:22	04/02/18 22:22	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	04/02/18 22:22	04/02/18 22:22	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	04/02/18 22:22	04/02/18 22:22	EPA 5030B	EPA 8260 B	A	JMG	y
Toluene	<2.00	2.00	μg/L	04/02/18 22:22	04/02/18 22:22	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	04/02/18 22:22	04/02/18 22:22	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	μg/L	04/02/18 22:22	04/02/18 22:22	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	μg/L	04/02/18 22:22	04/02/18 22:22	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethune-d4		97.5 %	80-120	04/02/1	8 22:22 04/02	2/18 22:22 EPA	8260 B			
Surrogate: 4-Bromofluorobenzene		95.0 %	80-120	04/02/	8 22:22 04/02	2/18 22:22 EPA	8260 B			
Surrogate: Dibromofluoromethane		106 %	80-120	04/02/	8 22:22 04/02	2/18 22:22 EPM	8260 B			
Surrogate: Toluene-d8		98.6 %	80-120	04/02/	8 22:22 04/02	2/18 22:22 EPM	8260 B			

Mountain Research, LLC

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Stephen Tampe



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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name; Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8030689 Reported: 04/06/18 10:11

MW-3

8030689-05 (Aqueous) Sampled: 03/23/18 13:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	d Method	Lab	Analyst	Notes
			Mountain I	Research, LLC						
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	04/02/18 22:48	04/02/18 22:48	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	μg/L	04/02/18 22:48	04/02/18 22:48	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	04/02/18 22:48	04/02/18 22:48	EPA 5030B	EPA 8260 B	٨	JMG	
Ethylbenzene	<2.00	2.00	µg/L	04/02/18 22:48	04/02/18 22:48	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	μg/1,	04/02/18 22:48	04/02/18 22:48	EPA 5030B	EPA 8260 B	A	JMG	
МТВЕ	3.51	2.00	μg/L	04/02/18 22:48	04/02/18 22:48	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	04/02/18 22:48	04/02/18 22:48	EPA 5030B	EPA 8260 B	A	JMG	V
Toluene	3.57	2.00	µg/L	04/02/18 22:48	04/02/18 22:48	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	μg/L	04/02/18 22:48	04/02/18 22:48	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4,00	4.00	μg/L.	04/02/18 22:48	04/02/18 22:48	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	μg/1,	04/02/18 22:48	04/02/18 22:48	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		99.4.%	80-120	04/02/	18 22:48 04/02	/18 22:48 EP	4 8260 B			
Surrogate: 4-Bromofluorobenzene		96.8 %	80-120	04/02/	18 22:48 04/02	V18 22:48 EP	4 8260 B			
Surrogate: Dibromofluoromethane		106 %	80-120	04/02/	18 22:48 04/02	718 22:48 EP	4 8260 B			
Surrogate: Toluene-d8		98,2 %	80-120	04/02/	18 22:48 04/02	118 22:48 EP	4 8260 B			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030689 Reported: 04/06/18 10:11

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2018
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018

Notes and Definitions

V	The calibration verification standard did not meet laboratory acceptance criteria. The associated analytical results may be biased low.
DI	The sample was analyzed at a dilution,
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

Mountain Research, LLC

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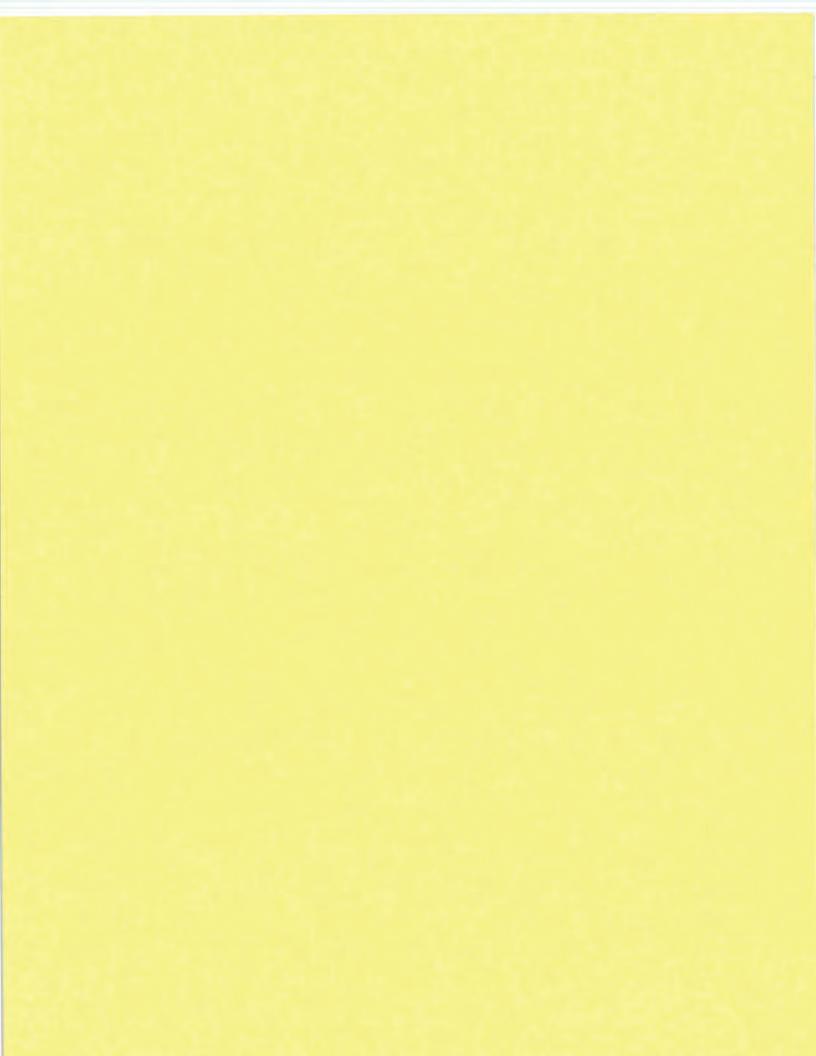
MUNITED SITE LOCATION PA MINISCEPTING SAMPLERIES IN MINISCEPTING SAMPLERIES IN MINI	DECTACKED RUN ROAD, DUDOIS, PA 15801 PRODUCT CODE AND	8	lyses Req	(814)	Shipping Carrier. Shipping Carrier. Turn Around Tighe: 10 Day 5 Day 1 Day Comments:
WWW FOOD & TWE GRAB COMP MATERIAL SAMPLER(S) 15 THE ID.NO. DATE TIME GRAB COMP MATERIAL	PRODUCT CODE		Analyses Requested		Carrier.
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# Y N N TIME GRAB COMP MATEL 2/122/18 0.05	PRODUCT CODE	20918		Tum Av 10 Day 5 Day 1 Day Comme	round Time:
# 3/22/18 10:05 X Ap	PRODUCT CODE	20918		10 Day 5 Day 1 Day Comme	wits:
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RELLYQUISHED BY:	27.00	DATE	DATE TIME, Lab NO 8: 047X/ CC		3151
TIME ACCEPTED BY:	3	DATE		JOO I Staff:	Xa

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL WORK ORDER: CLIENT: Woodland Food & Fuel DATE SAMPLED: 3/23/16 DATE RECEIVED: 3/23/16 TIME RECEIVED: 1430

1. CHECK ALL THAT APPLY: PA WV D MD D P W S D NPDES/COMPLIANCE	DAIRY RUSH
2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS	BROKEN?) YES INO
IF YES, EXPLAIN:	
3. NUMBER OF CONTAINERS RECEIVED: 17	
4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES	1 NO D
If No, Explain:	
5. RECEIVING TEMP: 10-3°C TEMP CONTROL(S) PRESENT YES NO BOTTLE(S)	Темрер:
6. WERE THE SAMPLES PROPERLY PRESERVED? YES, NO -	
IF NO, EXPLAIN:	
7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES NO	
If No, Explain:	
8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES DO N/A	
9. WAS THE COC FILLED OUT PROPERLY? YES NO	
IF NO, EXPLAIN:	
10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVA	TIVE) YES NO C
F No, Explain:	tive) resp nou
11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES NO	
F YES, EXPLAIN:	
2. Do The Samples Require Analyses That Have a Short Holding Time? YES 11	NO 44
	PLEASE NOTIFY LABORATORY ANALYSTS!
3. Is Subcontracting Required? YES D NO D	
F YES, WHAT ANALYSES?	
4. WAS THE CLIENT CONTACTED? YES NO. IF YES, FILL OUT THE FOLLOWING	g:
IR EMPLOYEE INITIALS: CLIENT SPOKEN TO:	DATE/TIME:

L60.30.A r2 Sample Receipt Form

For MR Use Only





DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Lab ID #: 8040100

19 April 2018

Dave Panasiti Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland, PA 16881

RE: Woodland, PA

Enclosed are the results of analyses for samples received by the laboratory on 04/04/18 13:16. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe

Assistant Laboratory Manager

Stephen Dampe

Authorized Reviewer



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8040100 Reported: 04/19/18 14:54

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
8040100-01	Aqueous	Grab	04/04/18 07:00	04/04/18 13:16
8040100-02	Aqueous	Grab	04/04/18 09:00	04/04/18 13:16
8040100-03	Aqueous	Grab	04/04/18 09:25	04/04/18 13;16
8040100-04	Aqueous	Grab	04/04/18 10:05	04/04/18 13:16
8040100-05	Aqueous	Grab	04/04/18 10:35	04/04/18 13:16
	8040100-01 8040100-02 8040100-03 8040100-04	8040100-01 Aqueous 8040100-02 Aqueous 8040100-03 Aqueous 8040100-04 Aqueous	8040100-01 Aqueous Grab 8040100-02 Aqueous Grab 8040100-03 Aqueous Grab 8040100-04 Aqueous Grab	8040100-01 Aqueous Grab 04/04/18 07:00 8040100-02 Aqueous Grab 04/04/18 09:00 8040100-03 Aqueous Grab 04/04/18 09:25 8040100-04 Aqueous Grab 04/04/18 10:05

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8040100 Reported: 04/19/18 14:54

Trip Blank

8040100-01 (Aqueous) Sampled: 04/04/18 07:00

Analyte	Result	RL	Units	Prepared	Analyz	ed Prep I	Method Method	Lab	Analyst	Notes
			Mountain I	Research, LLC	2					
Volatile Organic Compounds by GC/MS									-	
1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	04/13/18 15:54	04/13/18	15:54 EPA	5030B EPA 8260		JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	04/13/18 15:54	04/13/18	15:54 EPA	5030B EPA 8260	B A	JMG	
Benzene	<2.00	2.00	µg/L	04/13/18 15:54	04/13/18	15:54 EPA	5030B EPA 8260	B A	JMG	
Ethylbenzene	<2.00	2.00	μg/L	04/13/18 15:54	04/13/18	15:54 EPA:	5030B EPA 826	B A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	μg/L	04/13/18 15:54	04/13/18	15:54 EPA	5030B EPA 826	B A	JMG	
MTBE	<2.00	2.00	μg/L.	04/13/18 15:54	04/13/18	15:54 EPA	5030B EPA 826	B A	JMG	
Naphthalene	<2.00	2.00	μg/L	04/13/18 15:54	04/13/18	15:54 EPA	5030B EPA 826	B A	JMG	
Toluene	<2.00	2.00	µg/L	04/13/18 15:54	04/13/18	15:54 EPA	5030B EPA 826	B A	JMG	
Xylene o	<2.00	2.00	μg/L	04/13/18 15:54	04/13/18	15:54 EPA	5030B EPA 826	B A	JMG	
Xylene p/m	<4.00	4,00	μg/L	04/13/18 15:54	04/13/18	15:54 EPA	5030B EPA 826)B A	JMG	
Xylenes, Total	<6.00	6.00	μg/L	04/13/18 15:54	04/13/18	15:54 EPA	5030B EPA 826	B A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		101 %	80-120	04/13	/18 15:54	04/13/18 15:54	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		92,8 %	80-120	04/13	/18 15:54	04/13/18 15:54	EPA 8260 B			
Surrogate: Dibromofluoromethane		116%	80-120	04/13	/18 15:54	04/13/18 15:54	EPA 8260 B			
Surrogate: Toluene-d8		100 %	80-120	04/13	/18 15:54	04/13/18 15:54	EPA 8260 B			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923,18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8040100 Reported: 04/19/18 14:54

MW-3

8040100-02 (Aqueous) Sampled: 04/04/18 09:00

Analyte	Result	RL	Units	Prepared	Analy	zed	Prep Method	Method	Lah	Analyst	Notes
			Mountain I	Research, I	LC						
Volatile Organic Compounds by GC/MS											
1,2,4-Trimethylbenzene	49.4	2.00	µg/L	04/13/18 16:	20 04/13/18	16:20	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	22.3	2.00	µg/L	04/13/18 16	20 04/13/18	16:20	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	8.67	2.00	µg/L	04/13/18 16:	20 04/13/18	16:20	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	25.5	2.00	μg/L	04/13/18 16	20 04/13/18	16:20	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	2.59	2.00	µg/L	04/13/18 16	20 04/13/18	16:20	EPA 5030B	EPA 8260 B	A	JMG	
мтве	80.6	2.00	μg/L	04/13/18 16:	20 04/13/18	16:20	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	4.94	2.00	μg/L	04/13/18 16:	20 04/13/18	16:20	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	20.1	2.00	μg/L	04/13/18 16	20 04/13/18	16:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	17.2	2.00	µg/L	04/13/18 16	20 04/13/18	16:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	55.5	4.00	µg/L	04/13/18 16	20 04/13/18	16:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	72.7	6.00	μg/L	04/13/18 16	20 04/13/18	16:20	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		113 %	80-120	04	1/13/18 16:20	04/13/18 16	5:20 EPA 8260	В			
Surrogate: 4-Bromofluorobenzene		94.1%	80-120	04	1/13/18 16:20	04/13/18 16	5:20 EPA 8260	В			
Surrogate: Dibromofluoromethane		121 %	80-120	0-	1/13/18 16:20	04/13/18 10	5:20 EPA 8260	B S			
Surrogate: Toluene-d8		101 %	80-120	0-	4/13/18 16:20	04/13/18 10	5:20 EPA 8260	В			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923,18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8040100 Reported: 04/19/18 14:54

MW-4

8040100-03 (Aqueous) Sampled: 04/04/18 09:25

Anályte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
			Mountain I	Research, LLC						
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	680	100	μg/L	04/13/18 16:46	04/17/18 19:17	EPA 5030B	EPA 8260 B	A	JMG	DI
1,3,5-Trimethylbenzene	1410	50.0	µg/L	04/13/18 16:46	04/17/18 03:10	EPA 5030B	EPA 8260 B	A	JMG	DI
Benzene	626	50.0	µg/L	04/13/18 16:46	04/17/18 03:10	EPA 5030B	EPA 8260 B	A	JMG	DI
Ethylbenzene	283	50.0	µg/L	04/13/18 16:46	04/17/18 03:10	EPA 5030B	EPA 8260 B	A	JMG	DI
Isopropylbenzene (Cumene)	77.2	2.00	μg/L	04/13/18 16:46	04/13/18 16:46	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	38.5	2.00	µg/L	04/13/18 16:46	04/13/18 16:46	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	43.9	2.00	μg/L	04/13/18 16:46	04/13/18 16:46	EPA 5030B	EPA 8260 B	A	JMG	
Foluene	2800	100	µg/L	04/13/18 16:46	04/17/18 19:17	EPA 5030B	EPA 8260 B	A	JMG	DI
Xylene o	702	50.0	μg/L	04/13/18 16:46	04/17/18 03:10	EPA 5030B	EPA 8260 B	A	JMG	DI
Xylene p/m	1630	100	µg/L	04/13/18 16:46	04/17/18 03:10	EPA 5030B	EPA 8260 B	A	JMG	DI
Xylenes, Total	2330	150	µg/L	04/13/18 16:46	04/17/18 03:10	EPA 5030B	EPA 8260 B	٨	JMG	CC, D
Surrogate: 1,2-Dichloroethane-d4		100 %	80-120	04/13/	18 16:46 04/13	V18 16:46 EPA 820	50 B			
Surrogate: 4-Bromofluorobenzene		94.5 %	80-120	04/13/	18 16:46 04/13	V18 16:46 EPA 826	50 B			
Surrogate: Dibromofluoromethane		117%	80-120	04/13/	18 16:46 04/13	V18 16:46 EPA 826	50 B			
Surrogate: Toluene-d8		100 %	80-120	04/13/	18 16:46 04/13	V18 16:46 EPA 820	50 B			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8040100 Reported: 04/19/18 14:54

MW-2

8040100-04 (Aqueous) Sampled: 04/04/18 10:05

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
			Mountain I	Research, LLC						
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	3000	2000	µg/L	04/13/18 17:12	04/17/18 19:	43 EPA 5030B	EPA 8260 B	A	JMG	DI
1,3,5-Trimethylbenzene	2260	100	µg/L	04/13/18 17:12	04/17/18 03:	36 EPA 5030B	EPA 8260 B	A	JMG	DI
Benzene	3750	100	µg/L	04/13/18 17:12	04/17/18 03:	36 EPA 5030B	EPA 8260 B	A	JMG	DI
Ethylbenzene	4620	2000	µg/L	04/13/18 17:12	04/17/18 19:4	43 EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	886	100	µg/L	04/13/18 17:12	04/17/18 03:	36 EPA 5030B	EPA 8260 B	A	JMG	DI
МТВЕ	34.7	2,00	µg/L	04/13/18 17:12	04/13/18 17:	12 EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	1560	100	μg/L	04/13/18 17:12	04/17/18 03:	36 EPA 5030B	EPA 8260 B	A	JMG	DI
Toluene	47200	2000	µg/L	04/13/18 17:12	04/17/18 19:4	43 EPA 5030B	EPA 8260 B	٨	JMG	DI
Xylene o	8120	2000	µg/L	04/13/18 17:12	04/17/18 195	43 EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	18300	4000	μg/L	04/13/18 17:12	04/17/18 19:	43 EPA 5030B	EPA 8260 B	A	JMG	DI
Xylenes, Total	26500	6000	μg/L	04/13/18 17:12	04/17/18 19:	43 EPA 5030B	EPA 8260 B	A	JMG	CC, D
Surrogate: 1,2-Dichloroethane-d4		63.5 %	80-120	04/13/1	8 17:12 04	/13/18 17:12 EPA 826	OB S			
Surrogate: 4-Bromofluorobenzene		85.4 %	80-120	04/13/1	8 17:12 04	/13/18 17:12 EPA 826	0 B			
Surrogate: Dibromofluoromethane		113 %	80-120	04/13/1	8 17:12 04	/13/18 17:12 EPA 826	0 B			
Surrogate: Toluene-d8		19.0 %	80-120	04/13/1	8 17:12 04	713/18 17:12 EPA 826	0 B			

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Stephen Darype.



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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923,18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8040100 Reported: 04/19/18 14:54

MW-1

8040100-05 (Aqueous) Sampled: 04/04/18 10:35

		740100 05 (rqueous	onnipieur o iro	110 1000			_		
Analyte	Result	RL.	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
			Mountain I	Research, LLC						
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	174	20,0	µg/L	04/17/18 04:29	04/17/18 04;29	EPA 5030B	EPA 8260 B	A	JMG	DI
1,3,5-Trimethylbenzene	44.7	20.0	μg/L	04/17/18 04:29	04/17/18 04;29	EPA 5030B	EPA 8260 B	A	JMG	DI
Benzene	<20.0	20.0	µg/L	04/17/18 04:29	04/17/18 04:29	EPA 5030B	EPA 8260 B	A	JMG	DI
Ethylbenzene	34.8	20.0	µg/L	04/17/18 04:29	04/17/18 04:29	EPA 5030B	EPA 8260 B	A	JMG	DI
Isopropylbenzene (Cumene)	<20.0	20.0	μg/L	04/17/18 04:29	04/17/18 04:29	EPA 5030B	EPA 8260 B	A	JMG	DI
мтве	<20.0	20.0	μg/L	04/17/18 04:29	04/17/18 04:29	EPA 5030B	EPA 8260 B	A	JMG	DI
Naphthalene	99.4	20.0	μg/L	04/17/18 04:29	04/17/18 04:29	EPA 5030B	EPA 8260 B	A	JMG	DI
Toluene	63.4	20.0	μg/L	04/17/18 04:29	04/17/18 04:29	EPA 5030B	EPA 8260 B	A	JMG	DI
Xylene o	76.7	20.0	µg/L	04/17/18 04:29	04/17/18 04:29	EPA 5030B	EPA 8260 B	A	JMG	Di
Xylene p/m	167	40.0	μg/L	04/17/18 04:29	04/17/18 04:29	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	244	60.0	μg/L	04/17/18 04:29	04/17/18 04:29	EPA 5030B	EPA 8260 B	A	JMG	CC, D
Surrogate: 1,2-Dichloroethane-d4		93.1 %	80-120	04/17/	18 04:29 04/17/	18 04:29 EPA 82	60 B			
Surrogate: 4-Bromofluorobenzene		95.2 %	80-120	04/17/	18 04:29 04/17/	18 04:29 EPA 82	60 B			
Surrogate: Dibromofluoromethane		100 %	80-120	04/17/	18 04:29 04/17/	18 04:29 EPA 82	60 B			
Surrogate: Toluene-d8		99.2 %	80-120	04/17/	18 04:29 04/17/	18 04:29 EPA 82	60 B			

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Stephen Tampe



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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8040100 Reported: 04/19/18 14:54

Certifications

Code	Description	Number	Expires	
MDDOE	Maryland Department of the Environment	257	06/30/2018	
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018	
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018	
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018	
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018	

Notes and Definitions

S	Surrogate recovery outside of laboratory acceptance criteria.
DI	The sample was analyzed at a dilution.
cc	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

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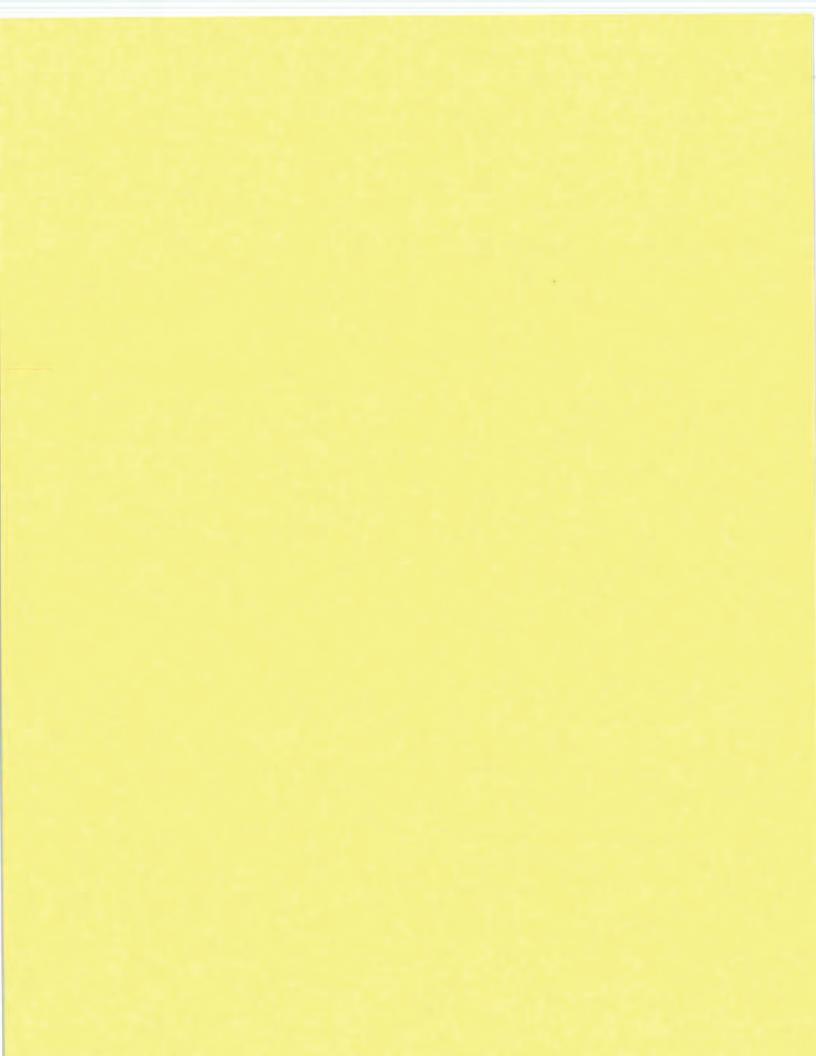
	MR PROJ. MGR.) ff Shipping Carrier. Turn Around Time: 10 Day (2) 3 Day 1 Day Comments:	Preserve LABNUMBE		1	120	HC/ 04		Log In Time: 1633	Stall: Kd
MOUNTAIN RESEARCI (814) 949- (814) 371- CHAIN OF CUSTODY RE								Lab Workorder #:	Labeled By:
	260B	8	*		2 >			DATECTIME U-y-18	DATE/TIME
825 25th Street, Altoona, PA 16601 110 McCracken Ron Road, Dubois, PA 15801	MODUCT CODE	2-Yuntuax 2A ?					<	S. S	
Food and Free!	GRAB COMP MATERIA	×						WINTER TIME ACCEPTED BY:	TIME ACCEPTED BY:
Wood land Model land Model land	22°C	00:2081414	2/2/10/20	74881.3	1 1 I	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	201 HIVIE	DATE
MR Project# STE LOCATION HAS CLIENT	NOTES: NOTES: Received On Ice: (V) / N Sample Temp: Comp Set	Trip Blank	MW 3	MW4	MW 2	1 m W		RELINQUISHED BY:	RELINQUISHED BY:

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL WORK ORDER: 4/18 DATE RECEIVED: 4/4/18 TIME RECEIVED: 13 XT 1. CHECK ALL THAT APPLY: PA WV MD P WS NPDES/COMPLIANCE DAIRY RUSH D 2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES D NO DE IF YES, EXPLAIN: 3. Number Of Containers Received: 10 4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES NO D IF NO, EXPLAIN: 5. RECEIVING TEMP: 1 2C TEMP CONTROL(S) PRESENT YES | NO | BOTTLE(S) TEMPED: 6. WERE THE SAMPLES PROPERLY PRESERVED? YES NO [IF NO, EXPLAIN: 7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES NO II IF NO, EXPLAIN: 8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES NO N/A 9. WAS THE COC FILLED OUT PROPERLY? YES NO IF NO, EXPLAIN: DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES NO II IF NO, EXPLAIN: 11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES DO NO IF YES, EXPLAIN: 12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES D NO Z IF YES, WHAT ANALYSES? PLEASE NOTIFY LABORATORY ANALYSTS! 13. IS SUBCONTRACTING REQUIRED? YES IN NO. IF YES, WHAT ANALYSES? 14. WAS THE CLIENT CONTACTED? YES NO. IF YES, FILL OUT THE FOLLOWING: MR EMPLOYEE INITIALS: CLIENT SPOKEN TO: DATE/TIME: OUTCOME:

SIGNATURE:

L60.30.A r2 Sample Receipt Form

For MR Use Only





DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Lab ID #: 8090272

14 September 2018

Dave Panasiti Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland, PA 16881

RE: Woodland, PA

Enclosed are the results of analyses for samples received by the laboratory on 09/10/18 14:52. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe

Assistant Laboratory Manager

Stephen Dampe

Authorized Reviewer



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax Hydrochem Laboratorics 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8090272 Reported; 09/14/18 16:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Trip Blank	8090272-01	Aqueous	Grab	09/10/18 07:25	09/10/18 14:52
MW-1	8090272-02	Aqueous	Grab	09/10/18 12:30	09/10/18 14:52
MW-2	8090272-03	Aqueous	Grab	09/10/18 13:05	09/10/18 14:52
MW-3	8090272-04	Aqueous	Grab	09/10/18 11:55	09/10/18 14:52
MW-4	8090272-05	Aqueous	Grab	09/10/18 11:35	09/10/18 14:52
MW-5	8090272-06	Aqueous	Grab	09/10/18 12:20	09/10/18 14:52
MW-6	8090272-07	Aqueous	Grab	09/10/18 12:10	09/10/18 14:52

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8090272 Reported: 09/14/18 16:41

Trip Blank

8090272-01 (Aqueous) Sampled: 09/10/18 07:25

Analyte	Result	RL	Units	Prepared	1	Analyz	ed	Prep Me	ethod	Method	Lab	Analyst	Notes
			Mountain I	Research,	LLC								
Volatile Organic Compounds by GC/MS													
1,2,4-Trimethylbenzene	<2.00	2.00	μg/L	09/12/18 1	5:21	09/12/18 1	5:21	EPA 50	30B E	PA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/12/18 1:	5:21	09/12/18 1	5:21	EPA 50	30B E	PA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/12/18 1:	5:21	09/12/18 1	5:21	EPA 50	30B E	PA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/12/18 1:	5:21	09/12/18 1	5:21	EPA 50	30B E	PA 8260 B	A	JMG	
sopropylbenzene (Cumene)	<2.00	2.00	μg/L	09/12/18 1:	5:21	09/12/18 1	5:21	EPA 50	30B E	PA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/12/18 1:	5:21	09/12/18 1	15:21	EPA 50	30B E	PA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/12/18 1:	5:21	09/12/18 1	15:21	EPA 50)30B	PA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	09/12/18 1:	5:21	09/12/18 1	15:21	EPA 50	030B E	PA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	09/12/18 1:	5:21	09/12/18	15:21	EPA 50	30B E	PA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	09/12/18 1:	5:21	09/12/18	15:21	EPA 50	30B E	PA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	μg/L	09/12/18 1	5:21	09/12/18	15:21	EPA 50)30B E	PA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		102 %	80-120		9/12/18	15:21	09/12/18 1	5:21	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		92.2 %	80-120	1	09/12/18	15:21	09/12/18 1	5:21	EPA 8260 B				
Surrogate: Dibromofluoromethane		103 %	80-120	(09/12/18	15:21	09/12/18 1	5:21	EPA 8260 B				
Surrogate: Toluene-d8		102 %	80-120		9/12/18	15:21	09/12/18 1	5:21	EPA 8260 B				

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8090272 Reported: 09/14/18 16:41

MW-1 8090272-02 (Aqueous) Sampled: 09/10/18 12:30

Analyte	Result	RL	Units	Prepared	Analya	ted F	rep Method	Method	Lab	Analyst	Notes
			Mountain F	Research, LL	.C						
Volatile Organic Compounds by GC/MS					S				_		
1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/12/18 16:39	09/12/18	16:39	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/12/18 16:39	09/12/18	16:39	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/12/18 16:39	09/12/18	16:39	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	μg/L	09/12/18 16:39	09/12/18	16:39	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	μg/L	09/12/18 16:39	09/12/18	16:39	EPA 5030B	EPA 8260 B	A	JMG	
МТВЕ	3.59	2.00	µg/L	09/12/18 16:39	9 09/12/18	16:39	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/12/18 16:39	9 09/12/18	16:39	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	09/12/18 16:39	9 09/12/18	16:39	EPA 5030B	EPA 8260 B	A	IMG	
Xylene o	<2.00	2.00	µg/L	09/12/18 16:39	9 09/12/18	16:39	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	09/12/18 16:39	9 09/12/18	16:39	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/12/18 16:39	9 09/12/18	16:39	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		103 %	80-120	09/1	12/18 16:39	09/12/18 16	:39 EPA 82	60 B			
Surrogate: 4-Bromofluorobenzene		92.1 %	80-120	09/1	12/18 16:39	09/12/18 16	:39 EPA 820	60 B			
Surrogate: Dibromofluoromethane		104 %	80-120	09/1	12/18 16:39	09/12/18 16	:39 EPA 82	60 B			
Surrogate: Toluene-d8		99.0 %	80-120	09/1	12/18 16:39	09/12/18 16	39 EPA 82	60 B			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923,18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8090272 Reported: 09/14/18 16:41

MW-2 8090272-03 (Aqueous) Sampled: 09/10/18 13:05

Analyte	Result	RI.	Units	Prepared	Analy	zed 1	Prep Method	Method	Lab	Analyst	Notes
			Mountain I	Research, I	LC						
Volatile Organic Compounds by GC/MS							and the same			-0.2	
1,2,4-Trimethylbenzene	9.25	2.00	µg/L	09/12/18 17			EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	2.87	2.00	µg/L	09/12/18 17			EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/12/18 17	:32 09/12/18	17:32	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	6.40	2.00	µg/L	09/12/18 17	:32 09/12/18	17:32	EPA 5030B	EPA 8260 B	Α	IMG	
sopropylbenzene (Cumene)	<2.00	2,00	µg/L	09/12/18 17	32 09/12/18	17:32	EPA 5030H	EPA 8260 B	A	JMG	
мтве	4.55	2.00	µg/L	09/12/18 17	:32 09/12/18	17:32	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/12/18 17	:32 09/12/18	17:32	EPA 5030B	EPA 8260 B	٨	JMG	
Toluene	<2.00	2.00	μg/L	09/12/18 17	:32 09/12/18	17:32	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	μg/L	09/12/18 17	:32 09/12/18	17:32	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	6.48	4.00	μg/L	09/12/18 17	:32 09/12/18	17:32	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	6.48	6.00	μg/L	09/12/18 17	:32 09/12/18	17:32	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		103 %	80-120	0	9/12/18 17:32	09/12/18 17	:32 EPA 8260	В			
Surrogate: 4-Bromofluorobenzene		93.6 %	80-120	0	9/12/18 17:32	09/12/18 17	:32 EPA 8260	В			
Surrogate: Dibromofluoromethane		107 %	80-120	0	9/12/18 17:32	09/12/18 17	2:32 EPA 8260	B			100
Surrogate: Toluene-d8		100 %	80-120	0	9/12/18 17:32	09/12/18 17	:32 EPA 8260	B			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923:18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8090272 Reported: 09/14/18 16:41

MW-3 8090272-04 (Aqueous) Sampled: 09/10/18 11:55

Analyte	Result	RL	Units	Prepared	Analyzed	Prep M	ethod Method	Lab	Analyst	Notes
			Mountain I	Research, LLC						
Volatile Organic Compounds by GC/MS									FF-146	
1,2,4-Trimethylbenzene	1520	200	µg/L	09/12/18 17:58	09/12/18 17:	58 EPA 5	030B EPA 8260 B	A	JMG	DI
1,3,5-Trimethylbenzene	357	200	µg/L	09/12/18 17:58	09/12/18 17:	58 EPA 5	030B EPA 8260 B	A	JMG	DI
Benzene	2060	200	μg/L	09/12/18 17:58	09/12/18 17:	:58 EPA 5	030B EPA 8260 B	A	JMG	DI
Ethylbenzene	2240	200	μg/L	09/12/18 17:58	09/12/18 17:	.58 EPA 5		2.0	IMG	DI
Isopropylbenzene (Cumene)	<200	200	µg/L	09/12/18 17:58	09/12/18 17:	58 EPA 5	030B EPA 8260 B	A	1MG	DI
MTBE	<200	200	μg/L	09/12/18 17:58	09/12/18 17	:58 EPA 5	030B EPA 8260 B	A	JMG	DI
Naphthalene	338	200	µg/L	09/12/18 17:58	09/12/18 17:	:58 EPA 5	030B EPA 8260 B	A	JMG	DI
Toluene	15700	200	µg/L	09/12/18 17:58	09/12/18 18:	:24 EPA 5	030B EPA 8260 B	٨	JMG	DI
Xylene o	4390	200	µg/L	09/12/18 17:58	09/12/18 17	:58 EPA 5	030B EPA 8260 B	A	IMG	DI
Xylene p/m	9160	400	μg/L	09/12/18 17:58	09/12/18 17	:58 EPA 5	030B EPA 8260 B	A	JMG	DI
Xylenes, Total	13500	600	µg/L	09/12/18 17:58	09/12/18 17	:58 EPA 5	030B EPA 8260 B	A	JMG	CC, D
Surrogate: 1,2-Dichloroethane-d4		103 %	80-120	09/12/11	8 17:58 0	9/12/18 17:58	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		94.0 %	80-120	09/12/13	8 17:58 05	9/12/18 17:58	EPA 8260 B			
Surrogate: Dibromofluoromethane		107 %	80-120	09/12/1	8 17:58 0	9/12/18 17:58	EPA 8260 B			
Surrogate: Toluene-d8		101 %	80-120	09/12/16	8 17:58 0	9/12/18 17:58	EPA 8260 B			

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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8090272 Reported: 09/14/18 16:41

MW-4 8090272-05 (Aqueous) Sampled: 09/10/18 11:35

Analyte	Result	RL	Units	Prepared	Analyze	Prep M	ethod Meth	od	Lab	Analyst	Notes
			Mountain I	Research, LLC							
Volatile Organic Compounds by GC/MS								V			
1,2,4-Trimethylbenzene	79.3	10.0	μg/L	09/12/18 18:50	09/12/18 18	:50 EPA 5	030B EPA 83	260 B	A	JMG	DI
1,3,5-Trimethylbenzene	23.0	10.0	μg/L	09/12/18 18:50	09/12/18 18	8:50 EPA 5	030B EPA 8:	260 B	A	JMG	DI
Benzene	247	10.0	μg/L	09/12/18 18:50	09/12/18 18	EPA 5	030B EPA 8:	260 B	A	JMG	DI
Ethylbenzene	85.4	10.0	μg/L	09/12/18 18:50	09/12/18 18	8:50 EPA 5			A	JMG	DI
Isopropylbenzene (Cumene)	<10.0	10.0	μg/L	09/12/18 18:50	09/12/18 18	8:50 EPA 5	030B EPA 82	60 B	A	JMG	DI
МТВЕ	44.2	10.0	μg/L	09/12/18 18:50	09/12/18 18	8:50 EPA 5	030B EPA 8	260 B	A	JMG	DI
Naphthalene	<10.0	10.0	µg/L	09/12/18 18:50	09/12/18 18	3:50 EPA 5	030B EPA 82	60 B	A	JMG	DI
Toluene	1060	50.0	μg/L	09/12/18 18:50	09/12/18 19):15 EPA 5	030B EPA 8	260 B	A	JMG	DI
Xylene o	196	10.0	µg/L	09/12/18 18:50	09/12/18 18	3:50 EPA 5	030B EPA 8:	260 B	A	JMG	DI
Xylene p/m	397	20.0	µg/L	09/12/18 18:50	09/12/18 18	8:50 EPA 5	030B EPA 8:	260 B	A	JMG	DI
Xylenes, Total	593	30.0	µg/L	09/12/18 18:50	09/12/18 18	8:50 EPA 5	030B EPA 8	260 B	A	JMG	CC, D
Surrogate: 1,2-Dichloroethane-d4		104 %	80-120	09/12/	18 18:50 6	9/12/18 18:50	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		94.8 %	80-120	09/12/	18 18:50	9/12/18 18:50	EPA 8260 B				
Surrogate: Dibromofluoromethane		100 %	80-120	09/12/	18 18:50 (09/12/18 18:50	EPA 8260 B				
Surrogate: Toluene-d8		99.2 %	80-120	09/12/	18 18:50 (9/12/18 18:50	EPA 8260 B				

Mountain Research, LLC

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Stephen Dampe



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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8090272 Reported: 09/14/18 16:41

MW-5 8090272-06 (Aqueous) Sampled: 09/10/18 12:20

Analyte	Result	RL	Units	Prepared	Analyze	d Prep N	tethod Method	Lab	Analyst	Notes
			Mountain l	Research, LLC						
Volatile Organic Compounds by GC/MS							77.7		-	
1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/12/18 15:47	09/12/18 15	5:47 EPA 5			JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/12/18 15:47	09/12/18 15	5:47 EPA 5	030B EPA 8260	BA	JMG	
Benzene	<2.00	2.00	, μg/L	09/12/18 15:47	09/12/18 1	5:47 EPA 5	030B EPA 8260	BA	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/12/18 15:47	09/12/18 15	5:47 EPA 5	030B EPA 8260	B A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/12/18 15:47	09/12/18 1:	5:47 EPA 5	030B EPA 8260	B A	JMG	
MTBE	<2.00	2.00	µg/L	09/12/18 15:47	09/12/18 1:	5:47 EPA 5	030B EPA 8260	B A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/12/18 15:47	09/12/18 15	5:47 EPA 5	030B EPA 8260	B A	JMG	
Toluene	<2.00	2.00	µg/L	09/12/18 15:47	09/12/18 1:	5:47 EPA 5	030B EPA 8260	B A	JMG	
Xylene o	<2.00	2.00	µg/L	09/12/18 15:47	09/12/18 1:	5:47 EPA :	030B EPA 8260	BA	JMG	
Xylene p/m	<4.00	4.00	µg/L	09/12/18 15:47	09/12/18 1:	5:47 EPA 5	030B EPA 8260	B A	JMG	
Xylenes, Total	<6.00	6.00	μg/L	09/12/18 15:47	09/12/18 1:	5:47 EPA :	030B EPA 8260	B A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		102 %	80-120	09/12/	18 15:47	09/12/18 15:47	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		93.2 %	80-120	09/12/	18 15:47	09/12/18 15:47	EPA 8260 B			
Surrogate: Dibromofluoromethane		99.8 %	80-120	09/12/	18 15:47	09/12/18 15:47	EPA 8260 B			
Surrogate: Toluene-d8		104 %	80-120	09/12/	18 15:47	09/12/18 15:47	EPA 8260 B			

Mountain Research, LLC

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.

Stephen Tampe.



DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814,371.6030 Phone 814,375.0823 Fax Hydrochem Laboratories 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 930-1972 Fax (304) 930-1975

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA Project Number: 4923.18.01 Lab Project Manager: Stephen Gampe Lab ID#: 8090272 Reported: 09/14/18 16:41

MW-6

8090272-07 (Aqueous) Sampled: 09/10/18 12:10

Analyte	Result	RL	Units	Prepared	Analyz	ed Prep	Method	Method	Lab	Analyst	Notes
			Mountain I	Research, LLC	2						
Volatile Organic Compounds by GC/MS							2000			1	
1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/12/18 16:13	09/12/18	16:13 EPA	5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/12/18 16:13	09/12/18	16:13 EP/	5030B	EPA 8260 B	A	IMG	
Benzene	<2.00	2.00	μg/L	09/12/18 16:13	09/12/18	16:13 EP/	5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/12/18 16:13	09/12/18	16:13 EPA	5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/12/18 16:13	09/12/18	16:13 EP/	5030B	EPA 8260 B	A	JMG	
МТВЕ	<2.00	2,00	μg/L	09/12/18 16:13	09/12/18	16:13 EP/	5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	μg/L	09/12/18 16:13	09/12/18	16:13 EP/	5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	μg/L	09/12/18 16:13	09/12/18	16:13 EP/	5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	09/12/18 16:13	09/12/18	16:13 EPA	5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	09/12/18 16:13	09/12/18	16:13 EPA	5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/12/18 16:13	09/12/18	16:13 EPA	5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		104 %	80-120	09/12	/18 16:13	09/12/18 16:13	EPA 826	0 B			
Surrogate: 4-Bromofluorobenzene		92.5 %	80-120	09/12	/18 16:13	09/12/18 16:13	EPA 826	0 B			
Surrogate: Dibromofluoromethane		106 %	80-120	09/12	/18 16:13	09/12/18 16:13	EPA 826	0 B			
Surrogate: Toluene-d8		102 %	80-120	09/12	/18 16:13	09/12/18 16:13	EPA 826	0 B			

Mountain Research, LLC

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Stephen Dampe



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Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Project Name: Woodland, PA
Project Number: 4923.18.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8090272 Reported: 09/14/18 16:41

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2018
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2019
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018

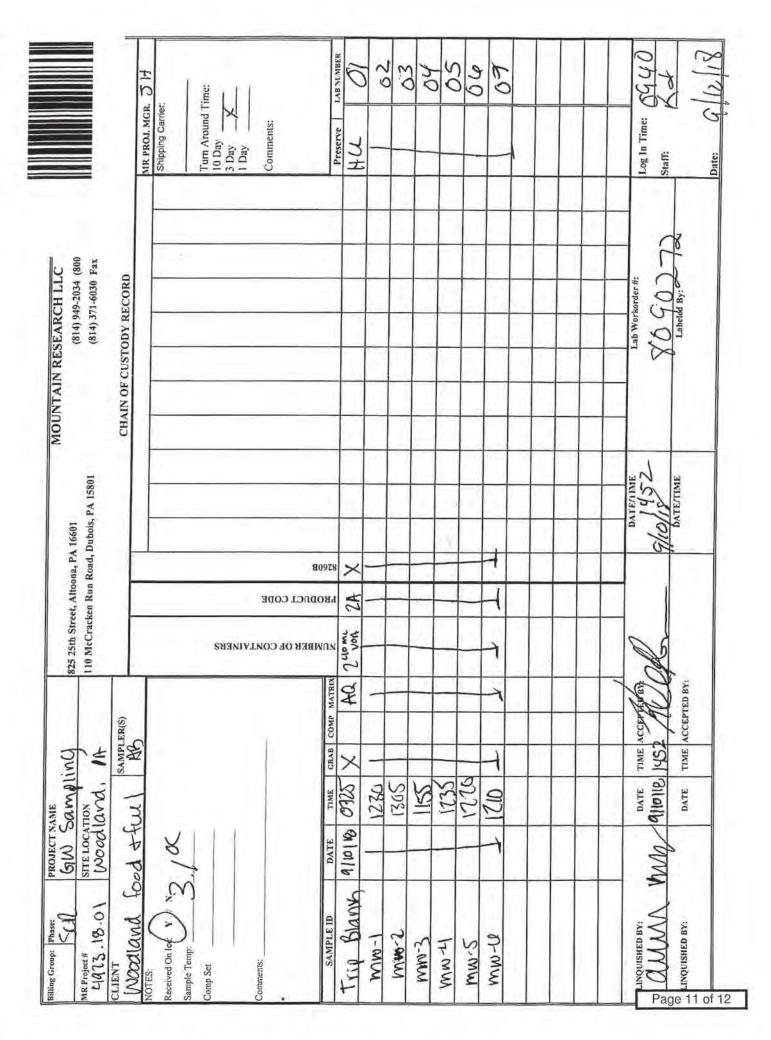
Notes and Definitions

DI	The sample was analyzed at a dilution.
cc	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

Mountain Research, LLC

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.

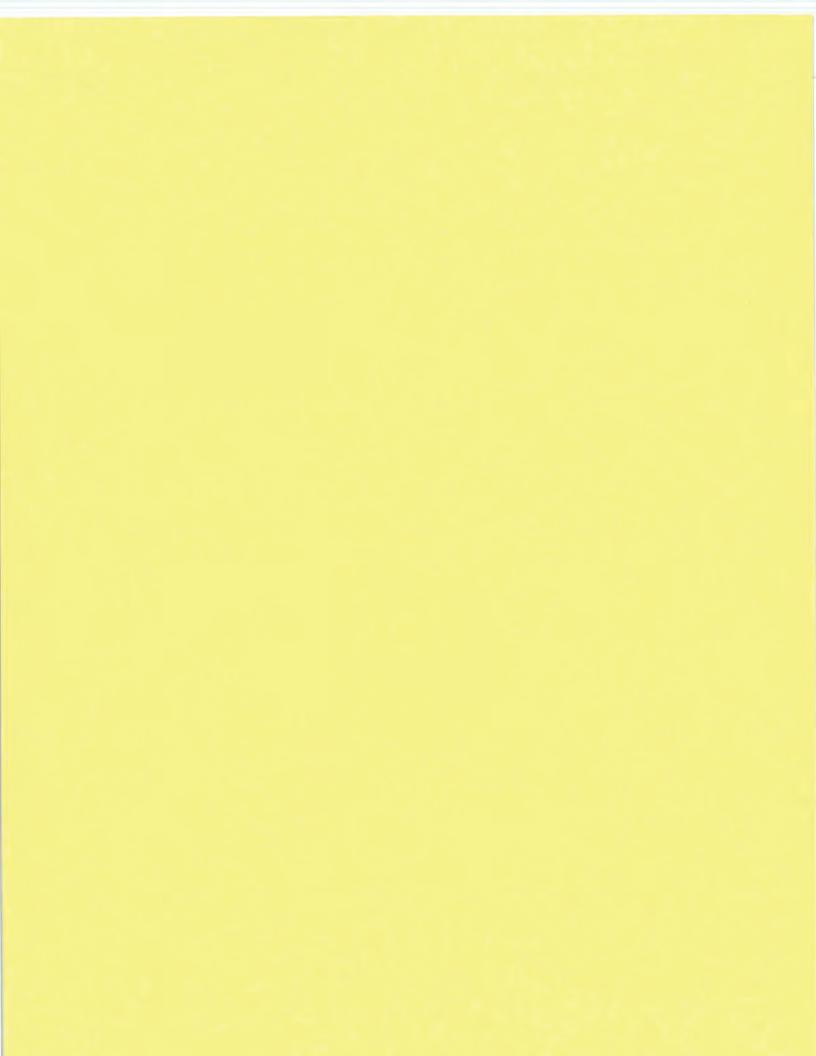
Stephen Dampe.



MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER: CLIENT:

b. r	TURE: Nella
	\sim \sim
T	DME:
	MPLOYEE INITIALS: CLIENT SPOKEN TO: DATE/TIME:
	AS THE CLIENT CONTACTED? YES D NO D IF YES, FILL OUT THE FOLLOWING:
	s, What Analyses?
	SUBCONTRACTING REQUIRED? YES NO
YE	5, WHAT ANALYSES? PLEASE NOTIFY LABORATORY ANALYSTS!
	OO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES IN NO
YE	s, Explain:
	VERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES O NOTO
No	, EXPLAIN:
	DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES 6/NO a
No	, EXPLAIN:
10	WAS THE COC FILLED OUT PROPERLY? YES ✓ NO □
00	S THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES NO N/A
No	O, EXPLAIN:
	WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES NO
N	D, EXPLAIN:
	WERE THE SAMPLES PROPERLY PRESERVED? YES NO
	RECEIVING TEMP: 3. C TEMP CONTROL(S) PRESENT YES NO BOTTLE(S) TEMPED:
N	D, EXPLAIN:
	WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES NO -
	NUMBER OF CONTAINERS RECEIVED:
FY	ES, EXPLAIN:
	WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES DINON
•	CHECK ALL THAT APPLY: PAR WY D MD D P W S D NPDES/COMPLIANCE DAIRY D RUSH D





825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165

DuBois Office and Laboratory

110 McCracken Run Road DuBois, PA 15801 814,371.6030 Phone 814,375.0823 Fax EPA Lab# PA00155

29 November 2018

Woodland Food & Fuel, Inc. Dave Panasiti

2829 Woodland Bigler Highway

Woodland PA, 16881

Work Order:

8110391

Project:

Woodland, PA

ANALYTICAL REPORT

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received	
Trip Blank	8110391-01	Aqueous	11/13/18 05:30	11/13/18 12:36	
MW-1BR	8110391-02	Aqueous	11/13/18 07:05	11/13/18 12:36	
MW-3BR	8110391-03	Aqueous	11/13/18 07:45	11/13/18 12:36	
MW-4BR	8110391-04	Aqueous	11/13/18 09:48	11/13/18 12:36	
MW-5BR	8110391-05	Aqueous	11/13/18 09:34	11/13/18 12:36	
MW-7	8110391-06	Aqueous	11/13/18 07:56	11/13/18 12:36	
MW-8	8110391-07	Aqueous	11/13/18 09:05	11/13/18 12:36	
MW-9	8110391-08	Aqueous	11/13/18 10:04	11/13/18 12:36	

NARRATIVE

The result(s) contained in this report are respresentative of the sample(s) received. Analyses were performed in accordance with Mountain Research, LLC's applicable certifications and Quality Assurance Program, unless otherwise noted below or within the body of the report. Mountain Research, LLC is not responsible for the use or interpretation of the data included herein. If necessary, this analytical report must be reproduced in its entirety.

DEFINITIONS

X	The result is estimated	because it was over the ana	lysis calibration range.
---	-------------------------	-----------------------------	--------------------------

D1 The sample was analyzed at a dilution.

CC Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.

PQL Practical Quantitation Limit

MDL Method Detection Limit

dry Sample results reported on a dry weight basis

CERTIFICATIONS

APPROVED BY:

Stephen Gampe, Assistant Laboratory Manage

Stephen Dampe



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DuBois Office and Laboratory

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Reported:

11/29/18 16:16

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881

CLIENT SAMPLE ID:

Trip Blank

LAB SAMPLE ID: MATRIX: 8110391-01

SAMPLE TYPE:

Aqueous Grab SAMPLE DATE: 11/

11/13/18 05:30

RECEIPT DATE:

11/13/18 12:36

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS									
1,2,4-Trimethylbenzene	<2.00	μg/L	2.00		11/22/18 19:02	11/22/18 19:02	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	<2.00	μg/L	2.00		11/22/18 19:02	11/22/18 19:02	EPA 5030B	EPA 8260 B	JMG	
Benzene	<2.00	μg/L	2,00		11/22/18 19:02	11/22/18 19:02	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	<2.00	μg/L	2.00		11/22/18 19:02	11/22/18 19:02	EPA 5030B	EPA 8260 B	JMG	
sopropylbenzene (Cumene)	<2.00	μg/L	2.00		11/22/18 19:02	11/22/18 19:02	EPA 5030B	EPA 8260 B	JMG	
МТВЕ	<2.00	μg/L	2.00		11/22/18 19:02	11/22/18 19:02	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	μg/L	2.00		11/22/18 19:02	11/22/18 19:02	EPA 5030B	EPA 8260 B	JMG	
Toluene	<2.00	µg/L	2.00		11/22/18 19:02	11/22/18 19:02	EPA 5030B	EPA 8260 B	JMG	
Xylene o	<2.00	μg/L	2.00		11/22/18 19:02	11/22/18 19:02	EPA 5030B	EPA 8260 B	JMG	
Xylene p/m	<4.00	μg/L	4.00		11/22/18 19:02	11/22/18 19:02	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	<6.00	μg/L	6.00		11/22/18 19:02	11/22/18 19:02	EPA 5030B	EPA 8260 B	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		105 %	80-120		11/22/18 19:	02 11/22/1	8 19:02 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		100 %	80-120		11/22/18 19:	02 11/22/1	8 19:02 EPA 82	60 B		
Surrogate: Dibromofluoromethane		109 %	80-120		11/22/18 19:	02 11/22/1	8 19:02 EPA 82	60 B		
Surrogate: Toluene-d8		102 %	80-120		11/22/18 19:	02 11/22/1	8 19:02 EPA 82	60 B		



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110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Reported:

11/29/18 16:16

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881

CLIENT SAMPLE ID:

MW-1BR

LAB SAMPLE ID:

8110391-02

MATRIX: SAMPLE TYPE: Aqueous Grab SAMPLE DATE:

11/13/18 07:05

RECEIPT DATE:

11/13/18 12:36

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS									
1,2,4-Trimethylbenzene	<2.00	μg/L	2.00		11/22/18 19:29	11/22/18 19:29	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	<2.00	μg/L	2.00		11/22/18 19:29	11/22/18 19:29	EPA 5030B	EPA 8260 B	JMG	
Benzene	<2.00	μg/L	2.00		11/22/18 19:29	11/22/18 19:29	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	<2,00	μg/L	2.00		11/22/18 19:29	11/22/18 19;29	EPA 5030B	EPA 8260 B	JMG	
Isopropylbenzene (Cumene)	<2.00	μg/L	2.00		11/22/18 19:29	11/22/18 19:29	EPA 5030B	EPA 8260 B	JMG	
мтве	<2.00	μg/L	2.00		11/22/18	11/22/18 19:29	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	μg/L	2.00		11/22/18 19:29	11/22/18 19;29	EPA 5030B	EPA 8260 B	JMG	
Toluene	<2.00	µg/L	2.00		11/22/18 19:29	11/22/18 19:29	EPA 5030B	EPA 8260 B	JMG	
Xylene o	<2,00	μg/L	2.00		11/22/18 19:29	11/22/18 19:29	EPA 5030B	EPA 8260 B	JMG	
Xylene p/m	<4.00	µg/L	4.00		11/22/18 19:29	11/22/18 19:29	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	<6.00	µg/L	6.00		11/22/18 19:29	11/22/18 19:29	EPA 5030B	EPA 8260 B	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		101%	80-120		11/22/18 19	29 11/22/1	8 19:29 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		104.%	80-120		11/22/18 19	29 11/22/1	8 19:29 EPA 82	60 B		
Surrogate: Dibromofluoromethane		104 %	80-120		11/22/18 19.	:29 11/22/1	8 19:29 EPA 82	60 B		
Surrogate: Toluene-d8		104 %	80-120		11/22/18 19	29 11/22/1	8 19:29 EPA 82	60 B		



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DuBois Office and Laboratory

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Reported:

11/29/18 16:16

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881

CLIENT SAMPLE ID:

MW-3BR

LAB SAMPLE ID: MATRIX: 8110391-03

SAMPLE TYPE:

Aqueous Grab SAMPLE DATE: 11/13/18 07:45 RECEIPT DATE: 11/13/18 12:36

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS									
1,2,4-Trimethylbenzene	1530	µg/L	200		11/22/18 19:56	11/22/18 19:56	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	388	μg/L	200		11/22/18 19:56	11/22/18 19:56	EPA 5030B	EPA 8260 B	JMG	
Benzene	1600	μg/L	200		11/22/18 19:56	11/22/18 19:56	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	2190	μg/L	200		11/22/18 19:56	11/22/18 19:56	EPA 5030B	EPA 8260 B	JMG	
Isopropylbenzene (Cumene)	<200	μg/L	200		11/22/18 19:56	11/22/18 19:56	EPA 5030B	EPA 8260 B	JMG	
МТВЕ	<200	μg/L	200		11/22/18 19:56	11/22/18 19:56	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	248	μg/L	200		11/22/18 19:56	11/22/18 19:56	EPA 5030B	EPA 8260 B	JMG	
Toluene	15100	µg/L	200		11/22/18 19:56	11/22/18 19:56	EPA 5030B	EPA 8260 B	JMG	x
Xylene o	3180	µg/L	200		11/22/18 19:56	11/22/18 19:56	EPA 5030B	EPA 8260 B	JMG	
Xylene p/m	8120	μg/L.	400		11/22/18 19:56	11/22/18 19:56	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	11300	µg/L	600		11/22/18 19:56	11/22/18 19:56	EPA 5030B	EPA 8260 B	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		103 %	80-120		11/22/18 19:56	11/22/1	8 19:56 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene	-31	99.5%	80-120		11/22/18 19:56	11/22/1	8 19:56 EPA 82	60 B		
Surrogate: Dibromofluoromethane		102 %	80-120		11/22/18 19:56	11/22/1	8 19:56 EPA 82	60 B		
Surrogate: Toluene-d8		106 %	80-120		11/22/18 19:56	11/22/1	8 19:56 EPA 82	60 B		



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DuBois Office and Laboratory

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc.

Woodland PA, 16881

CLIENT SAMPLE ID:

MW-4BR

LAB SAMPLE ID:

2829 Woodland Bigler Highway

8110391-04

MATRIX: SAMPLE TYPE: Aqueous Grab SAMPLE DATE:

11/13/18 09:48

RECEIPT DATE:

11/13/18 12:36

11/29/18 16:16

Analyte	Result	Units	PQL	MDL.	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	BY GC/MS									
1,2,4-Trimethylbenzene	266	μg/L	10,0		11/22/18 20:22	11/22/18 20:22	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	63.8	μg/L	10.0		11/22/18 20:22	11/22/18 20:22	EPA 5030B	EPA 8260 B	JMG	
Benzene	748	µg/L	10.0		11/22/18 20:22	11/22/18 20:22	EPA 5030B	EPA 8260 B	JMG	х
Ethylbenzene	333	μg/L	10.0		11/22/18 20:22	11/22/18 20:22	EPA 5030B	EPA 8260 B	JMG	
Isopropylbenzene (Cumene)	16.2	μg/L	10.0		11/22/18 20:22	11/22/18 20:22	EPA 5030B	EPA 8260 B	JMG	
МТВЕ	<10.0	μg/L	10.0		11/22/18 20:22	11/22/18 20:22	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	44.7	µg/L	10.0		11/22/18 20:22	11/22/18 20:22	EPA 5030B	EPA 8260 B	JMG	
Toluene	3140	μg/L	10.0		11/22/18 20:22	11/22/18 20:22	EPA 5030B	EPA 8260 B	JMG	x
Xylene o	845	μg/L	10.0		11/22/18 20:22	11/22/18 20:22	EPA 5030B	EPA 8260 B	JMG	x
Xylene p/m	1600	μg/1.	20.0		11/22/18 20:22	11/22/18 20:22	EPA 5030B	EPA 8260 B	JMG	x
Xylenes, Total	2450	μg/L	30.0		11/22/18 20:22	11/22/18 20:22	EPA 5030B	EPA 8260 B	JMG	CC, X
Surrogate: 1,2-Dichloroethane-d4		96.1%	80-120		11/22/18 20:22	11/22/1	8 20:22 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		103 %	80-120		11/22/18 20:22	11/22/1	8 20:22 EPA 82	60 B		
Surrogate: Dibromofluoromethane		108 %	80-120		11/22/18 20:22	11/22/1	8 20:22 EPA 82	60 B		
Surrogate: Toluene-d8		103 %	80-120		11/22/18 20:22	11/22/1	8 20:22 EPA 82	60 B		



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DuBois Office and Laboratory

110 McCracken Run Road DuBois, PA 15801 814.371,6030 Phone 814,375,0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881

CLIENT SAMPLE ID:

MW-5BR

LAB SAMPLE ID: MATRIX:

8110391-05 Aqueous

SAMPLE TYPE:

Grab

SAMPLE DATE:

11/13/18 09:34

Reported:

11/29/18 16:16

RECEIPT DATE:

11/13/18 12:36

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS									
1,2,4-Trimethylbenzene	5.64	µg/L	2.00		11/22/18 20:49	11/22/18 20:49	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	<2.00	μg/L	2,00		11/22/18 20:49	11/22/18 20:49	EPA 5030B	EPA 8260 B	JMG	
Benzene	<2.00	µg/L	2.00		11/22/18 20:49	11/22/18 20:49	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	2.96	μg/L	2.00		11/22/18 20:49	11/22/18 20:49	EPA 5030B	EPA 8260 B	JMG	
Isopropylbenzene (Cumene)	<2.00	μg/L	2.00		11/22/18 20:49	11/22/18 20:49	EPA 5030B	EPA 8260 B	JMG	
мтве	3.05	μg/L	2.00		11/22/18 20:49	11/22/18 20:49	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	μg/L.	2.00		11/22/18 20:49	11/22/18 20:49	EPA 5030B	EPA 8260 B	JMG	
Toluene	14.4	μg/L	2.00		11/22/18 20:49	11/22/18 20:49	EPA 5030B	EPA 8260 B	JMG	
Xylene o	5.56	μg/L	2.00		11/22/18 20:49	11/22/18 20:49	EPA 5030B	EPA 8260 B	JMG	
Xylene p/m	13.5	μg/L	4.00		11/22/18 20:49	11/22/18 20:49	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	19.1	μg/L	6.00		11/22/18 20:49	11/22/18 20:49	EPA 5030B	EPA 8260 B	JMG	cc
Surrogate: 1,2-Dichloroethane-d4		98.0 %	80-120		11/22/18 20:49	11/22/1	8 20:49 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		101 %	80-120		11/22/18 20:49	11/22/1	8 20:49 EPA 82	60 B		
Surrogate: Dibromofluoromethane		108 %	80-120		11/22/18 20:49	11/22/1	8 20:49 EPA 82	60 B		
Surrogate: Toluene-d8		102 %	80-120		11/22/18 20:49	11/22/1	8 20:49 EPA 82	60 B		



825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165 **DuBois Office and Laboratory**

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway

Woodland PA, 16881

MW-7

CLIENT SAMPLE ID: LAB SAMPLE ID: MATRIX:

8110391-06 Aqueous

SAMPLE TYPE:

Grab

SAMPLE DATE:

11/13/18 07:56

Reported:

RECEIPT DATE:

11/13/18 12:36

11/29/18 16:16

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS									
1,2,4-Trimethylbenzene	17.1	μg/L	2.00		11/22/18 21:15	11/22/18 21:15	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	23.0	μg/L	2.00		11/22/18 21:15	11/22/18 21:15	EPA 5030B	EPA 8260 B	JMG	
Benzene	2.98	µg/L	2.00		11/22/18 21:15	11/22/18 21:15	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	4.12	µg/L	2.00		11/22/18 21:15	11/22/18 21:15	EPA 5030B	EPA 8260 B	JMG	
Isopropylbenzene (Cumene)	<2.00	μg/L	2.00		11/22/18 21:15	11/22/18 21:15	EPA 5030B	EPA 8260 B	JMG	
МТВЕ	<2.00	µg/L	2.00		11/22/18 21:15	11/22/18 21:15	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	μg/L	2.00		11/22/18 21:15	11/22/18 21:15	EPA 5030B	EPA 8260 B	JMG	
Toluene	25.5	μg/L	2.00		11/22/18 21:15	11/22/18 21:15	EPA 5030B	EPA 8260 B	JMG	
Xylene o	31.1	μg/L	2.00		11/22/18 21:15	11/22/18 21:15	EPA 5030B	EPA 8260 B	JMG	
Xylene p/m	31.3	μg/L	4.00		11/22/18 21:15	11/22/18 21:15	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	62,4	μg/L	6.00		11/22/18 21:15	11/22/18 21:15	EPA 5030B	EPA 8260 B	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		105 %	80-120		11/22/18 21:13	11/22/1	8 21:15 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		102 %	80-120		11/22/18 21:15	11/22/1	8 21:15 EPA 82	60 B		
Surrogate: Dibromofluoromethane		112 %	80-120		11/22/18 21:15	11/22/1	8 21:15 EPA 82	60 B		
Surrogate: Toluene-d8		104 %	80-120		11/22/18 21:15	11/22/1	8 21:15 EPA 82	60 B		



825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165

DuBois Office and Laboratory

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway

Woodland PA, 16881

CLIENT SAMPLE ID: LAB SAMPLE ID:

MATRIX:

MW-8 8110391-07 Aqueous

SAMPLE DATE:

11/13/18 09:05

Reported:

11/29/18 16:16

RECEIPT DATE:

11/22/18 21:42

11/22/18 21:42

11/22/18 21:42

11/22/18 21:42

EPA 8260 B

EPA 8260 B

11/13/18 12:36

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS									
1,2,4-Trimethylbenzene	<2.00	µg/L	2.00		11/22/18 21:42	11/22/18 21:42	EPA 5030B	EPA 8260 B	JMG	
,3,5-Trimethylbenzene	<2.00	μg/L	2.00		11/22/18 21:42	11/22/18 21:42	EPA 5030B	EPA 8260 B	JMG	
Benzene	3.34	μg/L	2.00		11/22/18 21:42	11/22/18 21:42	EPA 5030B	EPA 8260 B	JMG	
ithylbenzene	<2.00	μg/L	2.00		11/22/18 21:42	11/22/18 21:42	EPA 5030B	EPA 8260 B	JMG	
sopropylbenzene (Cumene)	<2.00	µg/L	2.00		11/22/18 21:42	11/22/18 21:42	EPA 5030B	EPA 8260 B	JMG	
ИТВЕ	20.0	µg/L	2.00		11/22/18 21:42	11/22/18 21:42	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	μg/L	2.00		11/22/18 21:42	11/22/18 21:42	EPA 5030B	EPA 8260 B	JMG	
Toluene	<2.00	μg/L	2.00		11/22/18 21:42	11/22/18 21:42	EPA 5030B	EPA 8260 B	JMG	
Kylene o	<2.00	µg/L	2.00		11/22/18 21:42	11/22/18 21:42	EPA 5030B	EPA 8260 B	JMG	
Kylene p/m	<4.00	µg/L	4.00		11/22/18 21:42	11/22/18 21:42	EPA 5030B	EPA 8260 B	JMG	
Kylenes, Total	<6.00	μg/L	6.00		11/22/18 21:42	11/22/18 21:42	EPA 5030B	EPA 8260 B	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		103 %	80-120		11/22/18 21:	42 11/22/1	8 21:42 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		103 %	80-120		11/22/18-21:	42 11/22/1	8 21:42 EPA 82	60 B		

Surrogate; Dibromofluoromethane

Surrogate; Toluene-d8

111%

102 %

80-120

80-120



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DuBois Office and Laboratory

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881

Reported:

11/13/18 10:04

11/13/18 12:36

SAMPLE DATE:

RECEIPT DATE:

11/29/18 16:16

CLIENT SAMPLE ID:

MW-9

8110391-08

LAB SAMPLE ID: MATRIX:

SAMPLE TYPE:

Aqueous Grab

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS									
1,2,4-Trimethylbenzene	<2.00	µg/L	2.00		11/22/18 22:09	11/22/18 22:09	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	<2.00	μg/L	2.00		11/22/18 22:09	11/22/18 22:09	EPA 5030B	EPA 8260 B	JMG	
Benzene	8.92	μg/1.	2.00		11/22/18 22:09	11/22/18 22:09	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	<2.00	μg/L.	2.00		11/22/18 22:09	11/22/18 22:09	EPA 5030B	EPA 8260 B	JMG	
Isopropylbenzene (Cumene)	<2.00	µg/L	2.00		11/22/18 22:09	11/22/18 22:09	EPA 5030B	EPA 8260 B	JMG	
мтве	49.1	µg/L	2.00		11/22/18 22:09	11/22/18 22:09	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	μg/L.	2.00		11/22/18 22:09	11/22/18 22:09	EPA 5030B	EPA 8260 B	JMG	
Toluene	5.67	μg/L	2,00		11/22/18 22:09	11/22/18 22:09	EPA S030B	EPA 8260 B	JMG	
Xylene o	4.06	µg/L	2.00		11/22/18 22:09	11/22/18 22:09	EPA 5030B	EPA 8260 B	JMG	
Xylene p/m	5.95	µg/L	4,00		11/22/18 22:09	11/22/18 22:09	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	10.0	μg/L	6.00		11/22/18 22:09	11/22/18 22:09	EPA 5030B	EPA 8260 B	JMG	cc
Surrogate: 1,2-Dichloroethane-d4		97.4 %	80-120		11/22/18 22:09	11/22/1	8 22:09 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		99.6%	80-120		11/22/18 22:09	11/22/1	8 22:09 EPA 82	60 B		
Surrogate: Dibromofluoromethane		107 %	80-120		11/22/18 22:09	11/22/1	8 22:09 EPA 82	60 B		
Surrogate: Toluene-d8		103 %	80-120		11/22/18 22:09	11/22/1	8 22:09 EPA 82	60 B		

Log In Time: Staff:

158011 & #OMGET

DATE TIME

RELINQUISHED BY GANLOY ROUND IN 18-18-18 12:36 RELINQUISHED BY:



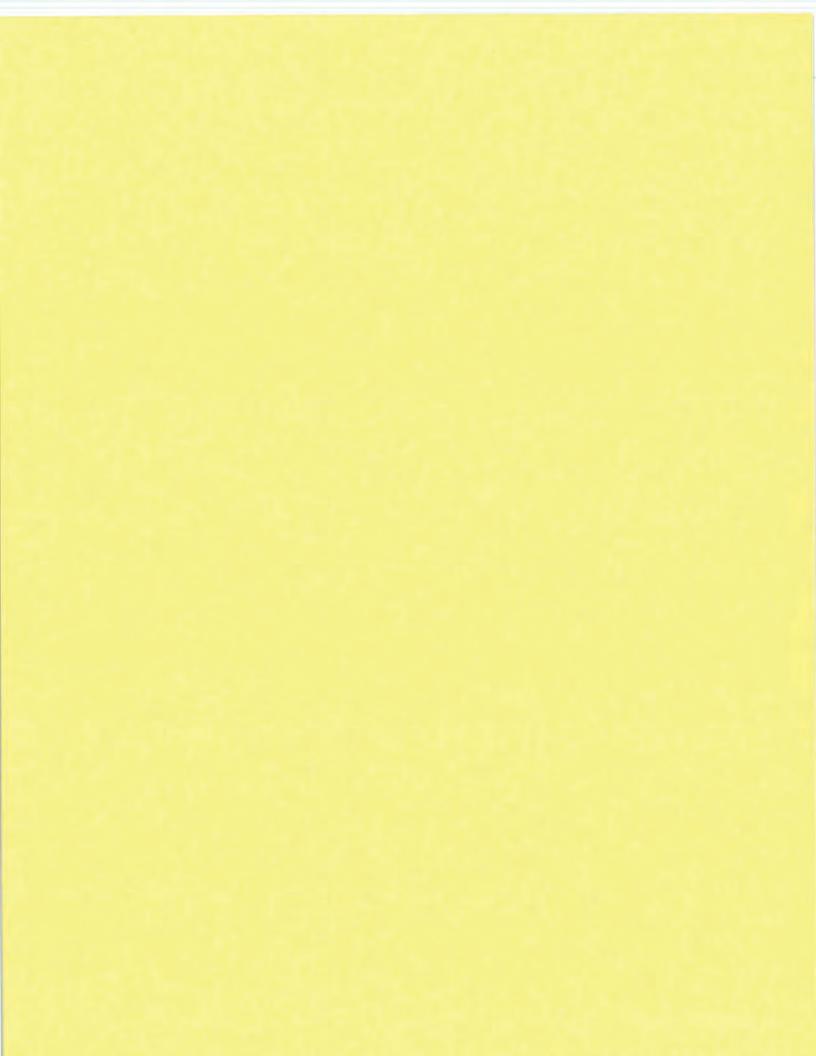
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	NOTES: Received On tree (V) / N / L C C				1				Ę.	Shipping Carrier.	rrier.
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	WORK OF		TAIN RESEAR	CH SAMPLE	RECEIPT PROT	OCOL	
	CLIENT:	Woodland			1100 11		355
	DATE SAM	MPLED: 11/13/19	DATE RECEI	IVED: 11/13/18	TIME RECEIVED:	12:36	WATERCH THE
2. WERI	E ANY OF TH XPLAIN: BER OF CONT		NERS DAMAGEI : 16 CE/OTHER ACC	D/LEAKING? (AR	ERANT? YES	FROKEN?) Y	
					IO to BOTTLE(S) TI	EMPED:	
		ES PROPERLY PRE				DITIL DD	
If No, Exi	PLAIN:						
7. WERE	THE SAMPL	ES COLLECTED IN	ΓHE CORRECT (CONTAINERS? Y	ES & NO D		
If No, Exp	PLAIN:						
8. IS THE	ERE HEADSPA	ACE PRESENT FOR	OLATILES/ODG	OR SAMPLES? Y	ES O NO N/A O		
9. WAS T	THE COC FIL	LLED OUT PROPERI	.Y?	YESAN	Óп		
IF NO, EXP	LAIN:						
10. DID T	HE SAMPLE I	LABEL(S) CONTAIN	ADEQUATE IN	FO? (CLIENT/DAT	e/time/Preservati	VE) YES	NOD
IF NO, EXP	LAIN:						
11. WERE	ANY OF THE	E SAMPLES RECEIV	ED OUTSIDE OF	HOLDING TIME	YES D NO D		
IF YES, EX	PLAIN:						
12. Do Th	IE SAMPLES I	REQUIRE ANALYSI	S THAT HAVE A	SHORT HOLDIN	GTIME? YES D NO	04	
F YES, WE	IAT ANALYS	ES?			PL	EASE NOTIFY I	ABORATORY ANALYSTS
13. Is SUB	CONTRACTIN	NG REQUIRED? YE	S I NO				
F YES, WE	IAT ANALYSI	ES?					
14. WAS T	HE CLIENT C	CONTACTED? YES	O NO	IF YES, FILL OU	JT THE FOLLOWING:		
MR EMPLO	YEE INITIAL:	S;	CLIENT SPO	OKEN TO:		DAT	E/TIME:

L60.30. A r2 Sample Receipt Form

For MR Use Only

Page 12 of 12





825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165

DuBois Office and Laboratory

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

05 December 2018

Woodland Food & Fuel, Inc. Dave Panasiti 2829 Woodland Bigler Highway Woodland PA, 16881 Work Order:

8110695

Project:

Woodland, PA

ANALYTICAL REPORT

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received				
MW-IBR	8110695-01	Aqueous	11/27/18 15:20	11/28/18 08:15				
MW-3BR	8110695-02	Aqueous	11/27/18 12:08	11/28/18 08:15				
MW-4BR	8110695-03	Aqueous	11/27/18 10:05	11/28/18 08:15				
MW-5BR	8110695-04	Aqueous	11/27/18 10:55	11/28/18 08:15				
MW-7	8110695-05	Aqueous	11/27/18 12:30	11/28/18 08:15				
MW-8	8110695-06	Aqueous	11/27/18 13:50	11/28/18 08:15				
MW-9	8110695-07	Aqueous	11/27/18 11:35	11/28/18 08:15				
MW-3	8110695-08	Aqueous	11/27/18 14:50	11/28/18 08:15				

NARRATIVE

The result(s) contained in this report are respresentative of the sample(s) received. Analyses were performed in accordance with Mountain Research, LLC's applicable certifications and Quality Assurance Program, unless otherwise noted below or within the body of the report. Mountain Research, LLC is not responsible for the use or interpretation of the data included herein. If necessary, this analytical report must be reproduced in its entirety.

DEFINITIONS

- N Matrix duplicate spike recovery was outside of the laboratory acceptance criteria.
- D2 The Relative Percent Difference between the matrix spike and its duplicate did not meet laboratory acceptance criteria.
- D1 The sample was analyzed at a dilution.
- CC Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
- PQL Practical Quantitation Limit
- MDL Method Detection Limit
- dry Sample results reported on a dry weight basis

CERTIFICATIONS

APPROVED BY:

Amanda Dutko, Laboratory Director



825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165 **DuBois Office and Laboratory**

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881

CLIENT SAMPLE ID:

MW-IBR

LAB SAMPLE ID:

8110695-01 Aqueous

MATRIX: SAMPLE TYPE:

Grab

SAMPLE DATE:

11/27/18 15:20

Reported:

12/05/18 14:27

RECEIPT DATE:

11/28/18 8:15

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS									
1,2,4-Trimethylbenzene	<2.00	µg/L	2.00		11/28/18 14:48	11/28/18 14:48	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	<2.00	µg/L	2.00		11/28/18 14:48	11/28/18 14:48	EPA 5030B	EPA 8260 B	JMG	
Benzene	<2.00	μg/L	2.00		11/28/18 14:48	11/28/18 14:48	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	<2.00	μg/L	2.00		11/28/18 14:48	11/28/18 14:48	EPA 5030B	EPA 8260 B	JMG	
sopropylbenzene (Cumene)	<2.00	μg/L	2.00		11/28/18 14:48	11/28/18 14:48	EPA 5030B	EPA 8260 B	JMG	
МТВЕ	<2.00	μg/L	2.00		11/28/18 14:48	11/28/18 14:48	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	µg/L	2.00		11/28/18 14:48	11/28/18 14:48	EPA 5030B	EPA 8260 B	JMG	D2, N
Toluene	<2.00	μg/L	2.00		11/28/18 14:48	11/28/18 14:48	EPA 5030B	EPA 8260 B	JMG	
Xylene o	<2.00	µg/L	2.00		11/28/18 14:48	11/28/18 14:48	EPA 5030B	EPA 8260 B	JMG	
Xylene p/m	<4.00	μg/L	4.00		11/28/18 14:48	11/28/18 14:48	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	<6.00	µg/L	6.00		11/28/18 14:48	11/28/18 14:48	EPA 5030B	EPA 8260 B	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		95.4%	80-120		11/28/18 14:	48 11/28/1	8 14:48 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		103 %	80-120		11/28/18 14:	48 11/28/1	8 14:48 EPA 82	60 B		
Surrogate: Dibromofluoromethane		104 %	80-120		11/28/18 14:	48 11/28/1	8 14:48 EPA 82	60 B		
Surrogate: Toluene-d8		96.8 %	80-120		11/28/18 14:	48 11/28/1	8 14:48 EPA 82	60 B		



825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165

DuBois Office and Laboratory

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway

Woodland PA, 16881

MW-3BR

CLIENT SAMPLE ID: LAB SAMPLE ID:

8110695-02

MATRIX: SAMPLE TYPE: Aqueous Grab SAMPLE DATE:

11/27/18 12:08

Reported:

12/05/18 14:27

RECEIPT DATE:

11/28/18 8:15

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUND	S BY GC/MS									
1,2,4-Trimethylbenzene	346	μg/L	20.0		11/30/18 15:22	11/30/18 15:22	EPA 5030B	EPA 8260 B	IMG	DI
1,3,5-Trimethylbenzene	144	μg/L	20.0		11/30/18 15:22	11/30/18 15;22	EPA 5030B	EPA 8260 B	JMG	DI
Benzene	88.2	µg/L	20.0		11/30/18 15:22	11/30/18 15:22	EPA 5030B	EPA 8260 B	JMG	DI
Ethylbenzene	166	µg/L	20.0		11/30/18 15:22	11/30/18 15;22	EPA 5030B	EPA 8260 B	JMG	DI
(Sopropylbenzene (Cumene)	37.6	µg/L	20.0		11/30/18 15:22	11/30/18 15:22	EPA 5030B	EPA 8260 B	JMG	DI
MTBE	<20.0	μg/L	20.0		11/30/18 15:22	11/30/18 15:22	EPA 5030B	EPA 8260 B	JMG	DI
Naphthalene	31.2	μg/L	20.0		11/30/18 15:22	11/30/18 15:22	EPA 5030B	EPA 8260 B	JMG	DI
Toluene	588	µg/L	20.0		11/30/18 15:22	11/30/18 15:22	EPA 5030B	EPA 8260 B	JMG	DI
Xylene o	274	μg/L	20.0		11/30/18 15:22	11/30/18 15:22	EPA 5030B	EPA 8260 B	JMG	DI
Xylene p/m	701	μg/L	40.0		11/30/18 15:22	11/30/18 15:22	EPA 5030B	EPA 8260 B	JMG	DI
Xylenes, Total	975	μg/L	60.0		11/30/18 15:22	11/30/18 15:22	EPA 5030B	EPA 8260 B	JMG	CC, I
Surrogate: 1,2-Dichloroethane-d4	3	96.2%	80-120		11/30/18 15:	22 11/30/1	8 15:22 EPA 82	60 B		

Surrogate: 4-Bromofluorobenzene

Surrogate: Dibromofluoromethane

Surrogate: Toluene-d8

102 %

104 %

103 %

80-120

80-120

80-120

11/30/18 15:22

11/30/18 15:22

11/30/18 15:22

11/30/18 15:22

11/30/18 15:22

11/30/18 15:22

EPA 8260 B

EPA 8260 B

EPA 8260 B



825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165

DuBois Office and Laboratory

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway

Woodland PA, 16881

CLIENT SAMPLE ID:

LAB SAMPLE ID: MATRIX:

SAMPLE TYPE:

8110695-03

MW-4BR

Aqueous Grab

Reported:

11/27/18 10:05

11/28/18 8:15

SAMPLE DATE:

RECEIPT DATE:

12/05/18 14:27

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS									
1,2,4-Trimethylbenzene	<200	µg/L	200		11/28/18 21:24	11/28/18 21:24	EPA 5030B	EPA 8260 B	JMG	DI
1,3,5-Trimethylbenzene	<200	µg/L	200		11/28/18 21:24	11/28/18 21:24	EPA 5030B	EPA 8260 B	JMG	DI
Benzene	478	μg/L	200		11/28/18 21:24	11/28/18 21:24	EPA 5030B	EPA 8260 B	JMG	DI
Ethylbenzene	363	μg/L	200		11/28/18 21:24	11/28/18 21:24	EPA 5030B	EPA 8260 B	JMG	DI
Isopropylbenzene (Cumene)	<200	$\mu g/L$	200		11/28/18 21:24	11/28/18 21:24	EPA 5030B	EPA 8260 B	JMG	DI
МТВЕ	<200	μg/L	200		11/28/18 21:24	11/28/18 21:24	EPA 5030B	EPA 8260 B	JMG	DI
Naphthalene	<200	μg/L	200		11/28/18 21:24	11/28/18 21:24	EPA 5030B	EPA 8260 B	JMG	DI
Toluene	4470	μg/L	200		11/28/18 21:24	11/28/18 21:24	EPA 5030B	EPA 8260 B	JMG	DI
Xylene o	688	µg/L	200		11/28/18 21:24	11/28/18 21:24	EPA 5030B	EPA 8260 B	JMG	DI
Xylene p/m	1490	μg/L	400		11/28/18 21:24	11/28/18 21:24	EPA 5030B	EPA 8260 B	JMG	DI
Xylenes, Total	2180	µg/L	600		11/28/18 21:24	11/28/18 21:24	EPA 5030B	EPA 8260 B	JMG	CC, D
Surrogate: 1,2-Dichlaroethane-d4		95.8 %	80-120		11/28/18 21:24	11/28/1	8 21:24 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		104 %	80-120		11/28/18 21:2	11/28/1	8 21:24 EPA 82	60 B		
Surrogate: Dibromofluoromethane		105 %	80-120		11/28/18 21:24	11/28/1	8 21:24 EPA 82	60 B		
Surrogate: Toluene-d8		99.8 %	80-120		11/28/18 21:24	11/28/1	8 21:24 EPA 82	60 B		



825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165 **DuBois Office and Laboratory**

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc.

2829 Woodland Bigler Highway

Woodland PA, 16881

MW-5BR

CLIENT SAMPLE ID: LAB SAMPLE ID:

8110695-04

MATRIX:

Aqueous

SAMPLE DATE:

11/27/18 10:55

Reported:

12/05/18 14:27

RECEIPT DATE:

11/28/18 8:15

Analyte	Result	- Units	PQL	MDL.	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS									
1,2,4-Trimethylbenzene	3.62	µg/L	2.00		11/28/18 18:46	11/28/18 18:46	EPA 5030B	EPA 8260 B	JMG	
,3,5-Trimethylbenzene	<2.00	µg/L	2.00		11/28/18 18:46	11/28/18 18:46	EPA 5030B	EPA 8260 B	JMG	
Benzene	5.53	μg/L	2.00		11/28/18 18:46	11/28/18 18:46	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	3.16	μg/L	2.00		11/28/18 18:46	11/28/18 18:46	EPA 5030B	EPA 8260 B	JMG	
sopropylbenzene (Cumene)	<2.00	µg/L	2.00		11/28/18 18:46	11/28/18 18:46	EPA 5030B	EPA 8260 B	JMG	
МТВЕ	6.83	μg/L.	2.00		11/28/18 18:46	11/28/18 18:46	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	μg/L	2.00		11/28/18 18:46	11/28/18 18:46	EPA 5030B	EPA 8260 B	JMG	
Toluene	39.8	µg/L	2.00		11/28/18 18:46	11/28/18 18:46	EPA 5030B	EPA 8260 B	JMG	
Xylene o	14.0	μg/L	2.00		11/28/18 18:46	11/28/18 18:46	EPA 5030B	EPA 8260 B	JMG	
Xylene p/m	22,1	μg/L	4.00		11/28/18 18:46	11/28/18 18:46	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	36.1	µg/L	6,00		11/28/18 18:46	11/28/18 18:46	EPA 5030B	EPA 8260 B	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	4	06.4 %	80-120		11/28/18 18:	46 11/28/1	8 18:46 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		107 %	80-120		11/28/18 18:	46 11/28/1	8 18:46 EPA 82	60 B		

Surrogate: Dibromofluoromethane

Surrogate: Toluene-d8

102 %

101%

80-120

80-120

11/28/18 18:46

11/28/18 18:46

11/28/18 18:46

11/28/18 18:46

EPA 8260 B

EPA 8260 B



825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837,4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165

DuBois Office and Laboratory

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway

Woodland PA, 16881

CLIENT SAMPLE ID:

LAB SAMPLE ID:

MW-7 8110695-05 Aqueous

SAMPLE TYPE:

MATRIX:

Grab

SAMPLE DATE:

11/27/18 12:30

Reported:

RECEIPT DATE:

11/28/18 8:15

12/05/18 14:27

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS									
1,2,4-Trimethylbenzene	69.2	μg/L	2.00		11/28/18 19:12	11/28/18 19:12	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	52.2	μg/L	2.00		11/28/18 19:12	11/28/18 19:12	EPA 5030B	EPA 8260 B	JMG	
Benzene	6.62	μg/L	2.00		11/28/18 19:12	11/28/18 19:12	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	18.1	µg/L	2.00		11/28/18 19:12	11/28/18 19:12	EPA 5030B	EPA 8260 B	JMG	
Isopropylbenzene (Cumene)	2.45	µg/L	2.00		11/28/18 19:12	11/28/18 19:12	EPA 5030B	EPA 8260 B	JMG	
МТВЕ	<2.00	μg/L	2.00		11/28/18 19:12	11/28/18 19:12	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	4.67	µg/L	2.00		11/28/18 19:12	11/28/18 19:12	EPA 5030B	EPA 8260 B	JMG	
Toluene	183	µg/L	20,0		11/28/18 19:12	11/30/18 14:29	EPA 5030B	EPA 8260 B	JMG	DI
Xylene o	189	μg/L	20.0		11/28/18	11/30/18 14:29	EPA 5030B	EPA 8260 B	JMG	DI
Xylene p/m	282	μg/L	40,0		11/28/18 19:12	11/30/18 14:29	EPA 5030B	EPA 8260 B	JMG	DI
Xylenes, Total	471	μg/L	60.0		11/28/18 19:12	11/30/18 14:29	EPA 5030B	EPA 8260 B	JMG	CC, DI
Surrogate: 1,2-Dichloroethane-d4		93.8 %	80-120		11/28/18 19:12	11/28/1	8 19:12 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		104 %	80-120		11/28/18 19:12	11/28/1	8 19:12 EPA 82	60 B		
Surrogate: Dibromofluoromethane		98.7%	80-120		11/28/18 19:12	11/28/1	8 19:12 EPA 82	60 B		
Surrogate: Toluene-d8		97.1%	80-120		11/28/18 19:12	11/28/1	8 19:12 EPA 82	60 B		



825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165

DuBois Office and Laboratory 110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax

EPA Lab# PA00155

Reported:

12/05/18 14:27

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway

Woodland PA, 16881

CLIENT SAMPLE ID: LAB SAMPLE ID:

MW-8 8110695-06

MATRIX: SAMPLE TYPE: Aqueous Grab

SAMPLE DATE:

11/27/18 13:50

RECEIPT DATE:

11/28/18 8:15

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	BY GC/MS									
1,2,4-Trimethylbenzene	<2.00	μg/L	2.00		11/28/18 17:53	11/28/18 17:53	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	<2.00	μg/L	2.00		11/28/18 17:53	11/28/18 17:53	EPA 5030B	EPA 8260 B	JMG	
Benzene	23.6	µg/L	2.00		11/28/18 17:53	11/28/18 17:53	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	<2.00	μg/L	2.00		11/28/18 17:53	11/28/18 17:53	EPA 5030B	EPA 8260 B	JMG	
Isopropylbenzene (Cumene)	<2.00	μg/L	2.00		11/28/18 17:53	11/28/18 17:53	EPA 5030B	EPA 8260 B	JMG	
МТВЕ	11.8	μg/L	2.00		11/28/18 17:53	11/28/18 17:53	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	μg/L	2.00		11/28/18 17:53	11/28/18 17:53	EPA 5030B	EPA 8260 B	JMG	
Toluene	<2.00	μg/L	2.00		11/28/18 17:53	11/28/18 17:53	EPA 5030B	EPA 8260 B	JMG	
Xylene o	<2.00	μg/L	2.00		11/28/18 17:53	11/28/18 17:53	EPA 5030B	EPA 8260 B	JMG	
Xylene p/m	<4.00	μg/L	4.00		11/28/18 17:53	11/28/18 17:53	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	<6.00	μg/L	6.00		11/28/18 17:53	11/28/18 17:53	EPA 5030B	EPA 8260 B	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	9	98.6%	80-120		11/28/18 17:	53 11/28/1	8 17:53 EPA 82	260 B		
Surrogate: 4-Bromofluorobenzene		105 %	80-120		11/28/18 17:	53 11/28/1	8 17:53 EPA 82	260 B		
Surrogate: Dibromofluoromethane		101 %	80-120		11/28/18 17:	53 11/28/1	8 17:53 EPA 82	260 B		
Surrogate: Toluene-d8	2	99.6%	80-120		11/28/18 17:	53 11/28/1	8 17:53 EPA 82	260 B		



825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165 **DuBois Office and Laboratory**

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

12/05/18 14:27

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway

Woodland PA, 16881

CLIENT SAMPLE ID:

MW-9

LAB SAMPLE ID:

8110695-07 Aqueous

MATRIX: SAMPLE TYPE:

Grab

SAMPLE DATE:

11/27/18 11:35

Reported:

RECEIPT DATE:

11/28/18 8:15

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS									
1,2,4-Trimethylbenzene	24.6	µg/L	2.00		11/28/18 18:20	11/28/18 18:20	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	6.76	μg/L	2.00		11/28/18 18:20	11/28/18 18:20	EPA 5030B	EPA 8260 B	JMG	
Benzene	130	µg/L	20.0		11/28/18 18:20	11/30/18 15:48	EPA 5030B	EPA 8260 B	JMG	DI
Ethylbenzene	60.9	µg/L	2.00		11/28/18 18:20	11/28/18 18:20	EPA 5030B	EPA 8260 B	JMG	
Isopropylbenzene (Cumene)	3.83	μg/L	2.00		11/28/18 18:20	11/28/18 18:20	EPA 5030B	EPA 8260 B	JMG	
МТВЕ	22.3	μg/L	2.00		11/28/18 18:20	11/28/18 18:20	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	μg/L	2.00		11/28/18 18:20	11/28/18 18:20	EPA 5030B	EPA 8260 B	JMG	
Toluene	281	µg/L	20.0		11/28/18 18:20	11/30/18 15:48	EPA 5030B	EPA 8260 B	JMG	DI
Xylene o	78.0	μg/I.	20.0		11/28/18 18:20	11/30/18 15:48	EPA 5030B	EPA 8260 B	JMG	DI
Xylene p/m	193	μg/L	4.00		11/28/18 18:20	11/28/18 18:20	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	271	µg/L	24.0		11/28/18 18:20	11/30/18 15:48	EPA 5030B	EPA 8260 B	JMG	CC, DI
Surrogate: 1,2-Dichloroethane-d4		98.5 %	80-120		11/28/18 18:2	0 11/28/1	8 18:20 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		104 %	80-120		11/28/18 18:2	0 11/28/1	8 18:20 EPA 82	60 B		
Surrogate: Dibromofluoromethane		99.6%	80-120		11/28/18 18:2	0 11/28/1	8 18:20 EPA 82	60 B		
Surrogate: Toluene-d8		98.6 %	80-120		11/28/18 18:2	0 11/28/1	8 18:20 EPA 82	60 B		



825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165 **DuBois Office and Laboratory**

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway

Woodland PA, 16881

CLIENT SAMPLE ID:

MW-3

LAB SAMPLE ID:

8110695-08

MATRIX:

Aqueous Grab SAMPLE DATE:

11/27/18 14:50

Reported:

12/05/18 14:27

RECEIPT DATE:

11/28/18 8:15

EPA 8260 B

EPA 8260 B

EPA 8260 B

11/28/18 19:39

11/28/18 19:39

11/28/18 19:39

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUND	S BY GC/MS									
1,2,4-Trimethylbenzene	2530	µg/L	200		11/28/18 19:39	11/28/18 19:39	EPA 5030B	EPA 8260 B	JMG	DI
1,3,5-Trimethylbenzene	637	μg/L	200		11/28/18 19:39	11/28/18 19:39	EPA 5030B	EPA 8260 B	JMG	DI
Benzene	3470	μg/L	200		11/28/18 19:39	11/28/18 19:39	EPA 5030B	EPA 8260 B	JMG	DI
Ethylbenzene	2430	μg/L	200		11/28/18 19:39	11/28/18 19:39	EPA 5030B	EPA 8260 B	JMG	DI
Isopropylbenzene (Cumene)	222	μg/L	200		11/28/18 19:39	11/28/18 19:39	EPA 5030B	EPA 8260 B	JMG	DI
MTBE	<200	μg/L	200		11/28/18 19:39	11/28/18 19:39	EPA 5030B	EPA 8260 B	JMG	Di
Naphthalene	573	μg/L	200		11/28/18 19:39	11/28/18 19:39	EPA 5030B	EPA 8260 B	JMG	DI
Toluene	17200	μg/L	2000		11/28/18 19:39	11/28/18 20:05	EPA 5030B	EPA 8260 B	JMG	DI
Xylene o	5020	μg/L	200		11/28/18 19:39	11/28/18 19:39	EPA 5030B	EPA 8260 B	JMG	DI
Xylene p/m	10500	μg/L	400		11/28/18 19:39	11/28/18 19:39	EPA 5030B	EPA 8260 B	JMG	DI
Xylenes, Total	15600	μg/L	600		11/28/18 19:39	11/28/18 19:39	EPA 5030B	EPA 8260 B	JMG	CC, D
Surrogate: 1,2-Dichloroethane-d4	9	4.6%	80-120		11/28/18 19:	39 11/28/1	8 19:39 EPA 82	60 B		

11/28/18 19:39

11/28/18 19:39

11/28/18 19:39

Surrogate: 4-Bromofluorobenzene

Surrogate: Dibromofluoromethane

Surrogate: Toluene-d8

105 %

102 %

98.3 %

80-120

80-120

80-120

	J
1	3
Z	4
Ç	2
2	7
DI	4
F	-
2	3
C	5
2	4
-	4
7	2
-	A

Billing Group: Phase:	PROJECT NAME	ME						MOUNT	MOUNTAIN RESEAR		
MR Project#	Woodland SITE LOCATION PL	TION			825 25th Street, Altoona, PA 16601 110 McCracken Run Road, Dubois, PA 15801	et, Altoona, en Run Ro	PA 16601 id, Dubois	, PA 15801	(814) 949 (814) 371		
CLIENT (Woodle	Ma)C	AMPL	(S)				CHAIN	CHAIN OF CUSTODY RECORD	Q	
Woodand Bool & rue	1 E rue		MPL, J	MAL			ľ	Anal	Analyses Requested	MR PROJ. MGR.	GR TH
NOTES.			+++++++++++++++++++++++++++++++++++++++							Shipping Carrier:	Carrier
		******* ******* ******* ******									
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Comments					чвеи с	DDACL	92				
SAMPLE ID.NO.	DATE	TIME	GRAB CO	COMP MATRIX	NON	ькс	P			Preserve	LAB NUMBER
MW-18R	11/22/18	1520	×	AO	2502	. ZA	\times			HC H	10-
MW-38R		1208			_	-					7,0-
MW-4BR		5001									-03
MW-5BR		(1055		1 =							h0
MW-7		1230									<u> </u>
MW-8		(356									ሳ0-
MW-9	>	1135	7	>	>	>	→			\hookrightarrow	₹0~
MW-3	\rightarrow	1450	→	>	7	7	3			>	90-
RELINQUISHED BY:		DATE	TIME ACC	ACCEPTED BY:			- A	DATE TIME	Lab WO & LI PILA 12	Log In Time	hh30
BY:		DATE	TIME ACC	Accept Williams:	no		a=	DATE TIME	Labeled By:	Pall Control of Control	6

WORK ORDER: MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCO	OL.
and walker and trained the	***
DATE SAMPLED: 11/27/16 DATE RECEIVED: 11/20/18 TIME RECEIVED: 08	S MOTILATION INC.
. CHECK ALL THAT APPLY: PAG WV I MD I PWS I NPDES/COMPLIANCE I DAI	RYD RUSHO
. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROK	EN?) YES D NO D
F YES, EXPLAIN:	
NUMBER OF CONTAINERS RECEIVED:	
WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES NO	П.
F NO, EXPLAIN:	
. RECEIVING TEMP: 4.4 °C TEMP CONTROL(S) PRESENT YES INO BOTTLE(S) TEMP	ED;
WERE THE SAMPLES PROPERLY PRESERVED? YES NO D	
F No, Explain:	
WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES NO D	
F NO, EXPLAIN:	
3. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES D NO N/A D	
O. WAS THE COC FILLED OUT PROPERLY? YES ONO D	
F NO, EXPLAIN:	
10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE)	YES NO D
If No, Explain:	
11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES D NO	
If Yes, Explain:	
12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES D NO	
	SE NOTIFY LABORATORY ANALYSTS
13. Is Subcontracting Required? YES NO	
IF YES, WHAT ANALYSES?	
	DATE/TIME:
MR EMPLOYEE INITIALS: CLIENT SPOKEN TO:	DAID THILL
OUTCOME:	
SIGNATURE: AUU (M.)	
L60.30.A r2 Sample Receipt Form	For MR Use Only Page 12





825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165

DuBois Office and Laboratory

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

11 December 2018

Woodland Food & Fuel, Inc.

Dave Panasiti

2829 Woodland Bigler Highway

Woodland PA, 16881

Work Order:

8120180

Project:

Woodland, PA

ANALYTICAL REPORT

	2.44.16.44.4	and the second of the second s			
Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received	
Trip Blank	8120180-01	Aqueous	12/06/18 04:30	12/07/18 09:00	
MW-1	8120180-02	Aqueous	12/06/18 14:28	12/07/18 09:00	
MW-2	8120180-03	Aqueous	12/06/18 14:15	12/07/18 09:00	
MW-4	8120180-04	Aqueous	12/06/18 14:20	12/07/18 09:00	
MW-5	8120180-05	Aqueous	12/06/18 14:05	12/07/18 09:00	
MW-6	8120180-06	Aqueous	12/06/18 14:00	12/07/18 09:00	

NARRATIVE

The result(s) contained in this report are respresentative of the sample(s) received. Analyses were performed in accordance with Mountain Research, LLC's applicable certifications and Quality Assurance Program, unless otherwise noted below or within the body of the report. Mountain Research, LLC is not responsible for the use or interpretation of the data included herein. If necessary, this analytical report must be reproduced in its entirety.

DEFINITIONS

CC Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the

rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.

PQL Practical Quantitation Limit

MDL Method Detection Limit

dry Sample results reported on a dry weight basis

APPROVED BY:

Stephen Gampe, Assistant Laboratory Managi

Stephen Dampe



825 25th Street Altoona, PA 16601 814,949,2034 Phone 800.837.4674 Toll Free 814,949,9591 Fax EPA Lab# PA00165 **DuBois Office and Laboratory**

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Reported:

12/11/18 13:41

CLIENT SAMPLE ID:

Trip Blank

LAB SAMPLE ID:

8120180-01

MATRIX: SAMPLE TYPE:

Aqueous

Grab

SAMPLE DATE:

12/06/18 04:30

RECEIPT DATE:

12/07/18 9:00

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	No
VOLATILE ORGANIC COMPOU	NDS BY GC/MS									
1,2,4-Trimethylbenzene	<2.00	μg/L	2.00		12/07/18 20:35	12/07/18 20:35	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	<2.00	μg/L	2.00		12/07/18 20:35	12/07/18 20:35	EPA 5030B	EPA 8260 B	JMG	

~2.00	HALL	2,00	20:35	20:35	EPA 3030B	E174 0200 D	TIME	
<2.00	μg/L,	2.00	12/07/18 20:35	12/07/18 20:35	EPA 5030B	EPA 8260 B	JMG	
<2.00	μg/L	2.00	12/07/18 20:35	12/07/18 20:35	EPA 5030B	EPA 8260 B	JMG	
<2.00	µg/L	2.00	12/07/18 20:35	12/07/18 20:35	EPA 5030B	EPA 8260 B	JMG	
<2.00	µg/L	2.00	12/07/18 20:35	12/07/18 20:35	EPA 5030B	EPA 8260 B	JMG	
<2.00	µg/L	2.00	12/07/18 20:35	12/07/18 20:35	EPA 5030B	EPA 8260 B	JMG	
<2.00	µg/L	2.00	12/07/18 20:35	12/07/18 20:35	EPA 5030B	EPA 8260 B	JMG	
<2.00	μg/L	2.00	12/07/18 20:35	12/07/18 20:35	EPA 5030B	EPA 8260 B	JMG	
<2.00	µg/L	2.00	12/07/18 20:35	12/07/18 20:35	EPA 5030B	EPA 8260 B	JMG	
<4.00	µg/L	4.00	12/07/18 20:35	12/07/18 20:35	EPA 5030B	EPA 8260 B	JMG	
<6.00	μg/L	6.00	12/07/18 20:35	12/07/18 20:35	EPA 5030B	EPA 8260 B	JMG	CC
	105 %	80-120	12/07/18 20:	35 12/07/1	8 20:35 EPA 82	260 B		
	104 %	80-120	12/07/18 20:	35 12/07/1	8 20:35 EPA 82	260 B		
3	97.7 %	80-120	12/07/18 20:	35 12/07/1	8 20:35 EPA 8	260 B		
	101 %	80-120	12/07/18 20:	35 12/07/1	8 20:35 EPA 82	260 B		
	<2.00 <2.00 <2.00 <2.00 <2.00 <2.00 <2.00 <4.00 <4.00 <6.00	<2.00 μg/L <4.00 μg/L <4.00 μg/L <4.00 μg/L	<2.00 μg/L 2.00 <4.00 μg/L 2.00 <4.00 μg/L 4.00 <6.00 μg/L 6.00 105 % 80-120 97.7 % 80-120	20:35 20:00 12/07/18 20:35 20:00 μg/L 2.00 12/07/18 20:35 20:00 20:	20:35 20:	20:35 20:	20:35 20:	20:35 20:



825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165 **DuBois Office and Laboratory**

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway

Woodland PA, 16881

CLIENT SAMPLE ID:

LAB SAMPLE ID: MATRIX: 8120180-02 Aqueous

SAMPLE TYPE:

Grab

MW-1

SAMPLE DATE:

12/06/18 14:28

Reported:

RECEIPT DATE:

12/07/18 9:00

12/11/18 13:41

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	BY GC/MS									
1,2,4-Trimethylbenzene	<2.00	µg/L	2.00		12/07/18 21:01	12/07/18 21:01	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	<2.00	μg/L	2.00		12/07/18 21:01	12/07/18 21:01	EPA 5030B	EPA 8260 B	JMG	
Benzene	<2.00	μg/L	2.00		12/07/18 21:01	12/07/18 21:01	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	<2.00	μg/L	2.00		12/07/18 21:01	12/07/18 21:01	EPA 5030B	EPA 8260 B	JMG	
sopropylbenzene (Cumene)	<2.00	µg/L	2.00		12/07/18 21:01	12/07/18 21:01	EPA 5030B	EPA 8260 B	JMG	
МТВЕ	2.71	μg/L	2.00		12/07/18 21:01	12/07/18 21:01	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	μg/L.	2.00		12/07/18 21:01	12/07/18 21:01	EPA 5030B	EPA 8260 B	JMG	
Toluene	<2.00	μg/L	2.00		12/07/18 21:01	12/07/18 21:01	EPA 5030B	EPA 8260 B	JMG	
Xylene o	<2.00	μg/L	2.00		12/07/18 21:01	12/07/18 21:01	EPA 5030B	EPA 8260 B	JMG	
Xylene p/m	<4.00	µg/L	4.00		12/07/18 21:01	12/07/18 21:01	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	<6.00	μg/L	6.00		12/07/18 21:01	12/07/18 21:01	EPA 5030B	EPA 8260 B	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		103 %	80-120		12/07/18 21:0	1 12/07/1	8 21:01 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		105 %	80-120		12/07/18 21:0	1 12/07/1	8 21:01 EPA 82	60 B		
Surrogate: Dibromofluoromethane		103 %	80-120		12/07/18 21:0	1 12/07/1	8 21:01 EPA 82	60 B		
Surrogate: Toluene-d8		99.7%	80-120		12/07/18 21:0	1 12/07/1	8 21:01 EPA 82	60 B		



825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165 **DuBois Office and Laboratory**

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway

Woodland PA, 16881

MW-2

LAB SAMPLE ID:

CLIENT SAMPLE ID:

8120180-03

MATRIX:

SAMPLE TYPE:

Aqueous Grab SAMPLE DATE:

12/06/18 14:15

Reported:

12/11/18 13:41

RECEIPT DATE:

12/07/18 9:00

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	BY GC/MS									
1,2,4-Trimethylbenzene	<2.00	μg/L	2.00		12/07/18 21:27	12/07/18 21:27	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	<2.00	μg/L	2.00		12/07/18 21:27	12/07/18 21:27	EPA 5030B	EPA 8260 B	JMG	
Benzene	<2.00	μg/L	2.00		12/07/18 21:27	12/07/18 21:27	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	<2.00	µg/L	2.00		12/07/18 21:27	12/07/18 21:27	EPA 5030B	EPA 8260 B	JMG	
sopropylbenzene (Cumene)	<2.00	µg/L	2.00		12/07/18 21;27	12/07/18 21:27	EPA 5030B	EPA 8260 B	JMG	
MTBE	<2.00	µg/L	2.00		12/07/18 21:27	12/07/18 21:27	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	µg/L	2.00		12/07/18 21:27	12/07/18 21:27	EPA 5030B	EPA 8260 B	JMG	
Toluene	<2.00	µg/L	2.00		12/07/18 21:27	12/07/18 21:27	EPA 5030B	EPA 8260 B	JMG	
Xylene o	<2.00	μg/L	2.00		12/07/18 21:27	12/07/18 21:27	EPA 5030B	EPA 8260 B	JMG	
Kylene p/m	<4.00	μg/L	4.00		12/07/18 21:27	12/07/18 21:27	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	<6.00	μg/L	6.00		12/07/18 21:27	12/07/18 21:27	EPA 5030B	EPA 8260 B	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		97.8%	80-120		12/07/18 21:	27 12/07/1	8 21:27 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		101 %	80-120		12/07/18 21:	27 12/07/1	8 21:27 EPA 82	60 B		
Surrogate; Dibromofluoromethane		98.6 %	80-120		12/07/18 21:	27 12/07/1	8 21:27 EPA 82	60 B		

Surrogate: Toluene-d8

102 %

80-120

12/07/18 21:27

12/07/18 21:27

EPA 8260 B



825 25th Street Altoona, PA 16601 814,949,2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165

DuBois Office and Laboratory

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway

Woodland PA, 16881

CLIENT SAMPLE ID:

LAB SAMPLE ID:

8120180-04 Aqueous

MATRIX:

SAMPLE TYPE:

MW-4

SAMPLE DATE:

12/06/18 14:20

Reported:

12/11/18 13:41

RECEIPT DATE:

12/07/18 9:00

Grab			
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Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Note
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS									
1,2,4-Trimethylbenzene	29.4	μg/Ι.	2.00		12/10/18 20:32	12/10/18 20:32	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	9.18	μg/L	2.00		12/10/18 20:32	12/10/18 20:32	EPA 5030B	EPA 8260 B	JMG	
Benzene	11.4	μg/L	2.00		12/10/18 20:32	12/10/18 20:32	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	21.3	μg/L	2,00		12/10/18 20:32	12/10/18 20:32	EPA 5030B	EPA 8260 B	JMG	
Isopropylbenzene (Cumene)	3.02	μg/L	2.00		12/10/18 20:32	12/10/18 20:32	EPA 5030B	EPA 8260 B	JMG	
МТВЕ	55.1	µg/L	2.00		12/10/18 20:32	12/10/18 20:32	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	µg/L	2.00		12/10/18 20:32	12/10/18 20:32	EPA 5030B	EPA 8260 B	JMG	
Toluene	6.86	μg/L	2.00		12/10/18 20:32	12/10/18 20:32	EPA 5030B	EPA 8260 B	JMG	
Xylene o	33,6	μg/L	2.00		12/10/18 20:32	12/10/18 20:32	EPA 5030B	EPA 8260 B	JMG	
Xylene p/m	100	μg/L	4.00		12/10/18 20:32	12/10/18 20;32	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	134	µg/L	6.00		12/10/18 20:32	12/10/18 20:32	EPA 5030B	EPA 8260 B	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		94.6%	80-120		12/10/18 20:32	12/10/1	8 20:32 EPA 82	50 B		
Surrogate: 4-Bromofluorobenzene		103 %	80-120		12/10/18 20:32	12/10/1	8 20:32 EPA 82	50 B		
Surrogate: Dibromofluoromethane		106%	80-120		12/10/18 20:32	12/10/1	8 20:32 EPA 82	50 B		
Surrogate: Toluene-d8		101 %	80-120		12/10/18 20:32	12/10/1	8 20:32 EPA 82	50 B		



825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165 **DuBois Office and Laboratory**

110 McCracken Run Road DuBois, PA 15801 814.371.6030 Phone 814.375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Reported:

12/11/18 13:41

CLIENT SAMPLE ID:

MW-5

LAB SAMPLE ID:

8120180-05

MATRIX: SAMPLE TYPE: Aqueous Grab SAMPLE DATE:

12/06/18 14:05

RECEIPT DATE:

12/07/18 9:00

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS									
1,2,4-Trimethylbenzene	<2.00	μg/L	2.00		12/07/18 22:20	12/07/18 22:20	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	<2.00	µg/L	2.00		12/07/18 22:20	12/07/18 22:20	EPA 5030B	EPA 8260 B	JMG	
Benzene	<2.00	μg/L	2.00		12/07/18 22:20	12/07/18 22:20	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	<2.00	µg/L	2.00		12/07/18 22:20	12/07/18 22:20	EPA 5030B	EPA 8260 B	JMG	
Isopropylbenzene (Cumene)	<2.00	µg/L	2.00		12/07/18 22:20	12/07/18 22:20	EPA 5030B	EPA 8260 B	JMG	
МТВЕ	<2.00	µg/L	2.00		12/07/18 22:20	12/07/18 22:20	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	μg/L	2.00		12/07/18 22:20	12/07/18 22:20	EPA 5030B	EPA 8260 B	JMG	
Toluene	<2.00	µg/L	2.00		12/07/18 22:20	12/07/18 22:20	EPA 5030B	EPA 8260 B	JMG	
Xylene o	<2.00	µg/L	2.00		12/07/18 22:20	12/07/18 22:20	EPA 5030B	EPA 8260 B	JMG	
Xylene p/m	<4.00	µg/L	4,00		12/07/18 22:20	12/07/18 22:20	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	<6.00	µg/L	6.00		12/07/18 22:20	12/07/18 22:20	EPA 5030B	EPA 8260 B	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		106 %	80-120		12/07/18 22:	20 12/07/1	8 22:20 EPA 82	60 B		
Surrogate: 4-Bromofluorobenzene		108 %	80-120		12/07/18 22:	20 12/07/1	8 22:20 EPA 82	60 B		
Surrogate: Dibromofluoromethane		104 %	80-120		12/07/18 22:	20 12/07/1	8 22:20 EPA 82	60 B		
Surrogate: Toluene-d8		101 %	80-120		12/07/18 22:	20 12/07/1	8 22:20 EPA 82	60 B		



825 25th Street Altoona, PA 16601 814.949.2034 Phone 800.837.4674 Toll Free 814.949.9591 Fax EPA Lab# PA00165 DuBois Office and Laboratory

110 McCracken Run Road DuBois, PA 15801 814,371.6030 Phone 814,375.0823 Fax EPA Lab# PA00155

Woodland Food & Fuel, Inc. 2829 Woodland Bigler Highway Woodland PA, 16881 Reported:

12/11/18 13:41

CLIENT SAMPLE ID:

MW-6

.....

LAB SAMPLE ID: MATRIX: 8120180-06

SAMPLE TYPE:

Aqueous Grab SAMPLE DATE:

12/06/18 14:00

RECEIPT DATE:

12/07/18 9:00

Analyte	Result	Units	PQL	MDL	Prepared	Analyzed	Prep Method	Method	Analyst	Notes
VOLATILE ORGANIC COMPOUN	DS BY GC/MS									
1,2,4-Trimethylbenzene	<2.00	μg/L	2.00		12/07/18 22:46	12/07/18 22:46	EPA 5030B	EPA 8260 B	JMG	
1,3,5-Trimethylbenzene	<2.00	µg/L	2.00		12/07/18 22:46	12/07/18 22:46	EPA 5030B	EPA 8260 B	JMG	
Benzene	<2.00	μg/L	2.00		12/07/18 22:46	12/07/18 22:46	EPA 5030B	EPA 8260 B	JMG	
Ethylbenzene	<2.00	μg/L	2.00		12/07/18 22:46	12/07/18 22:46	EPA 5030B	EPA 8260 B	JMG	
Isopropylbenzene (Cumene)	<2.00	μg/L	2.00		12/07/18 22:46	12/07/18 22:46	EPA 5030B	EPA 8260 B	JMG	
MTBE	<2.00	μg/L	2.00		12/07/18 22:46	12/07/18 22:46	EPA 5030B	EPA 8260 B	JMG	
Naphthalene	<2.00	μg/1.	2.00		12/07/18 22:46	12/07/18 22:46	EPA 5030B	EPA 8260 B	JMG	
Toluene	<2.00	μg/L	2.00		12/07/18 22:46	12/07/18 22:46	EPA 5030B	EPA 8260 B	JMG	
Xylene o	<2.00	μg/L	2.00		12/07/18 22:46	12/07/18	EPA 5030B	EPA 8260 B	JMG	
Xylene p/m	<4.00	μg/L	4.00		12/07/18 22:46	12/07/18 22:46	EPA 5030B	EPA 8260 B	JMG	
Xylenes, Total	<6.00	µg/L	6.00		12/07/18	12/07/18	EPA 5030B	EPA 8260 B	JMG	CC

22:46

12/07/18 22:46

12/07/18 22:46

12/07/18 22:46

12/07/18 22:46

22:46

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12/07/18 22:46

12/07/18 22:46

12/07/18 22:46

EPA 8260 B

EPA 8260 B

EPA 8260 B

EPA 8260 B

Surrogate: 1,2-Dichloroethane-d4

Surrogate: 4-Bromofluorobenzene

Surrogate: Dibromofluoromethane

Surrogate: Toluene-d8

103 %

102 %

104 %

103 %

80-120

80-120

80-120

80-120

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18 C (STRELOCATION PA 110 McCracken Run Road, Dubois, PA 15801 110 McCracken Run Road, Dubois, PA 15801 CHAIN OF CUST CHAIN OF CUST	Billing Group: Phase:		PROJECT NAME TO	rupling	2.5	825 25th St	reet, Altoo	13. PA 1660	MOUI	MOUNTAIN RESEARCH LLC		
S N Z B T WILL O WAY TO THE STATE OF THE STA	MR Project # 23.18.0 (CLIENT		Nood la	nd, pr	Į.	110 McCra	cken Run I	Road, Dubo	s, PA 1580			
ORAS COMPRESS A 2 4 6 Mg 1 Day Turn Atomic Comments: A 2 4 6 Mg 1 Day Turn Atomic Comments: A 2 4 6 Mg 1 Day Turn Atomic Comments: A 2 4 6 Mg 1 Day Turn Atomic Comments: A 2 4 6 Mg 1 Day Turn Atomic Comments: A 3 Day Turn Atomic Comments: C	Woodlar	10 106d	& Frue!	2	(c)w				CHAI	alyses Requested		Z
MO DATE THE CRUB MATERIAL CONTRIBUTION OF CONT	Received On foc. (X) / N Sample Temp: FWSID:# Sed in Tack: X / N	2.2				ONTAINERS	Э	90			i o	1 28 1 1 7
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PANJON WAY WATER TIME ACCEPTED BY: DATE TIME List WO # 72018												
PANJON MAN WATER TIME ACCEPTED BY: THE Lists WO # 8120180												
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DATE TIME ACCEPTED BY: / DATE TIME Labbled By	OLONGO BY:	Sall S	124/18	SE SE	CEPTED BY:	die	X	Y O	TES TIME	(2) Lab WO#19 (1901 PA	Log In Time 995	10
	- 1	6.	DATE	TIME AC	CEPTED BY:	0 0		DA	TE TIME	E Labeled By:		

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL CLIENT: Nocaland Food \$ DATE SAMPLED: 12/6/18 DATE RECEIVED: 17/7/18 TIME RECEIVED: 1. CHECK ALL THAT APPLY: PA WU O MD O PWS O NPDES/COMPLIANCE O DAIRY O RUSH 2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES DINO 100 IF YES, EXPLAIN: 3. NUMBER OF CONTAINERS RECEIVED: 17 4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES NO [IF NO, EXPLAIN: 5. RECEIVING TEMP: 2-8°C TEMP CONTROL(S) PRESENT YES | NO BE BOTTLE(S) TEMPED: _ 6. WERE THE SAMPLES PROPERLY PRESERVED? IF NO, EXPLAIN: 7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES NO [IF NO, EXPLAIN: 8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES D NO 6 N/A D 9. WAS THE COC FILLED OUT PROPERLY? YESLAOD IF NO, EXPLAIN: 10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES LONG IF NO, EXPLAIN: 11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES D NO D IF YES, EXPLAIN: 12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES D NO IF YES, WHAT ANALYSES? 13. IS SUBCONTRACTING REQUIRED? YES D NO/D IF YES, WHAT ANALYSES? 14. WAS THE CLIENT CONTACTED? YES DO NO FIRST IF YES, FILL OUT THE FOLLOWING: MR EMPLOYEE INITIALS: CLIENT SPOKEN TO: DATE/TIME: OUTCOME:

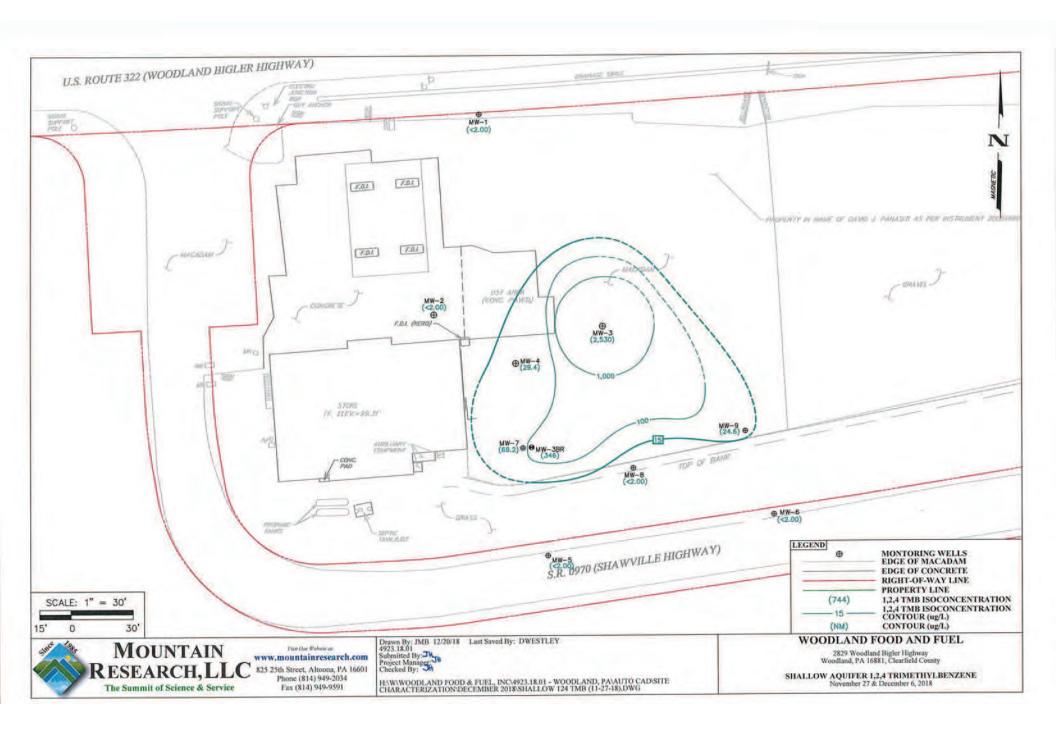
For MR Use Only

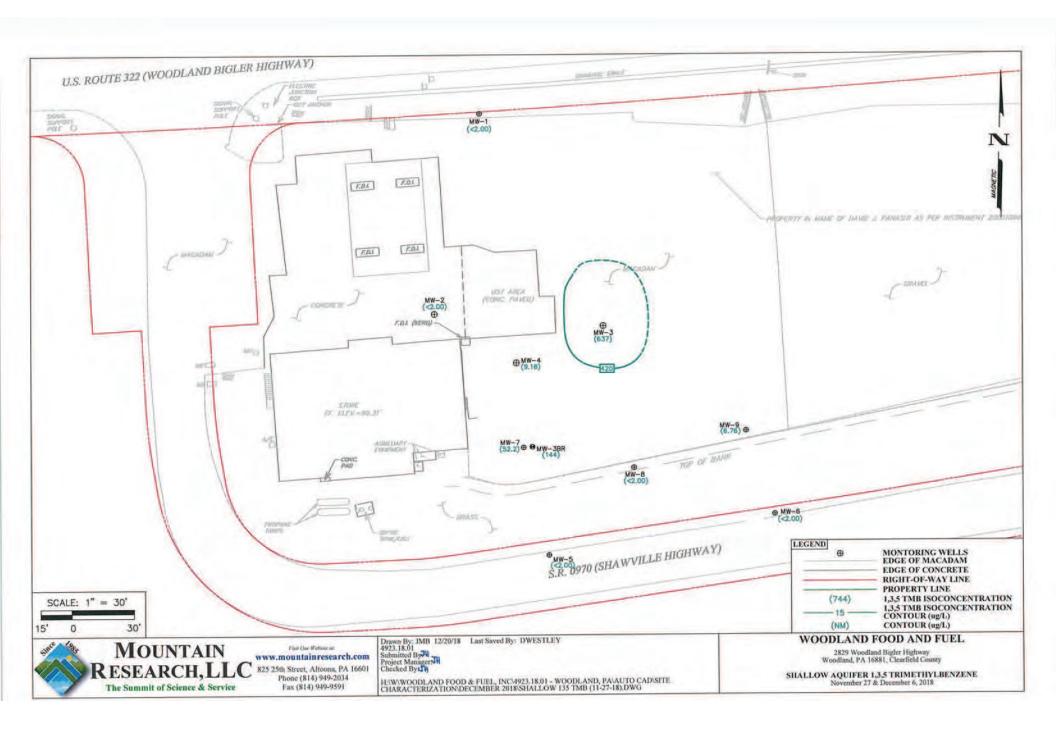
SIGNATURE:

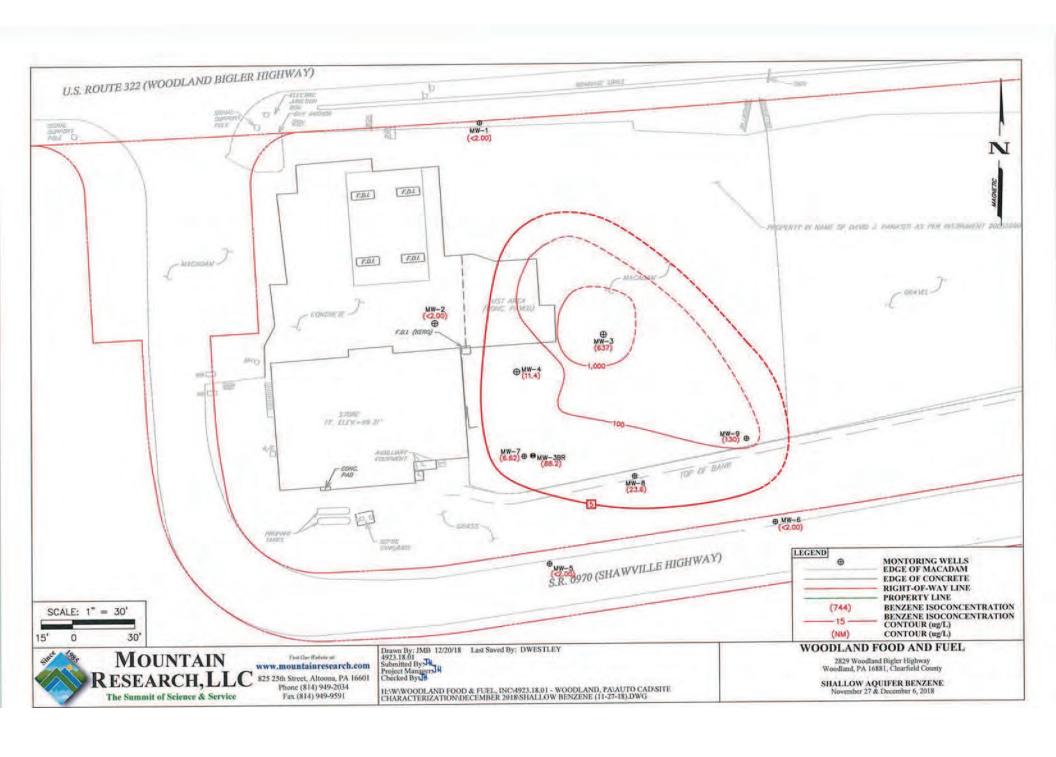
L60.30.A r2 Sample Receipt Form

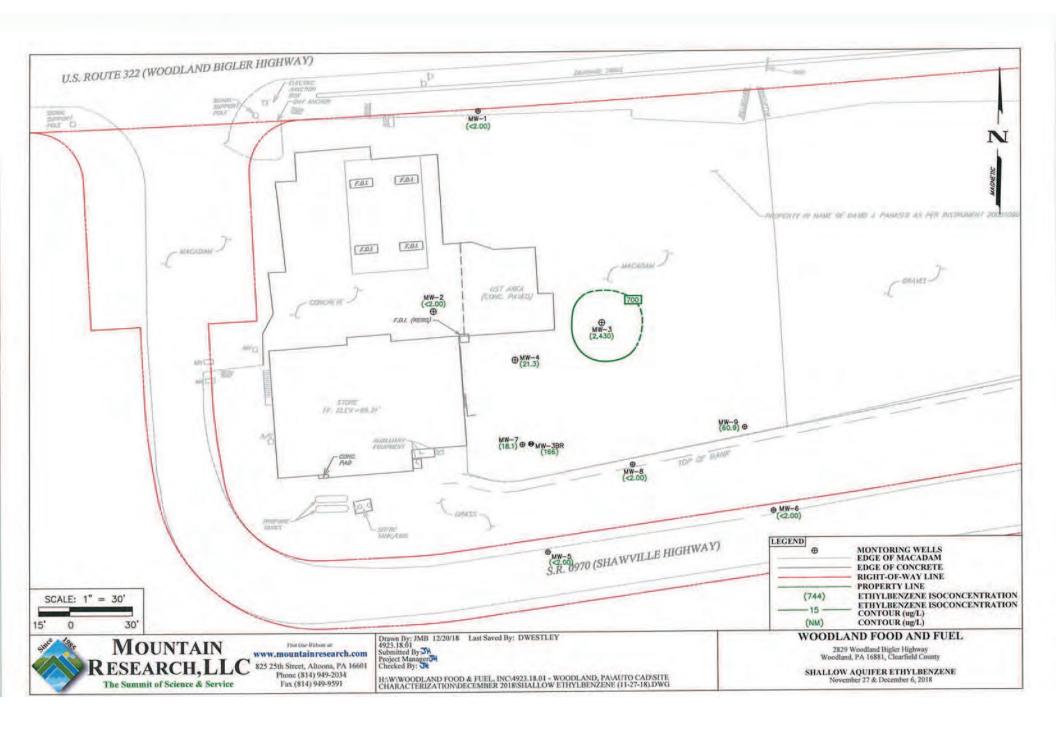
Page 9 of 9

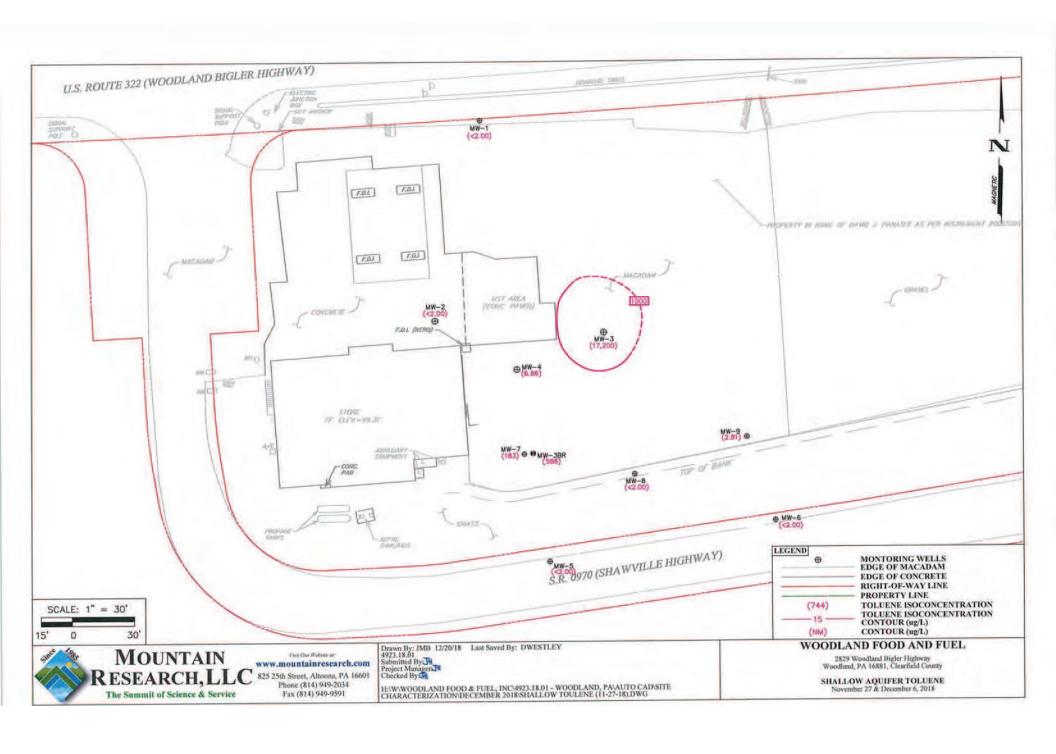


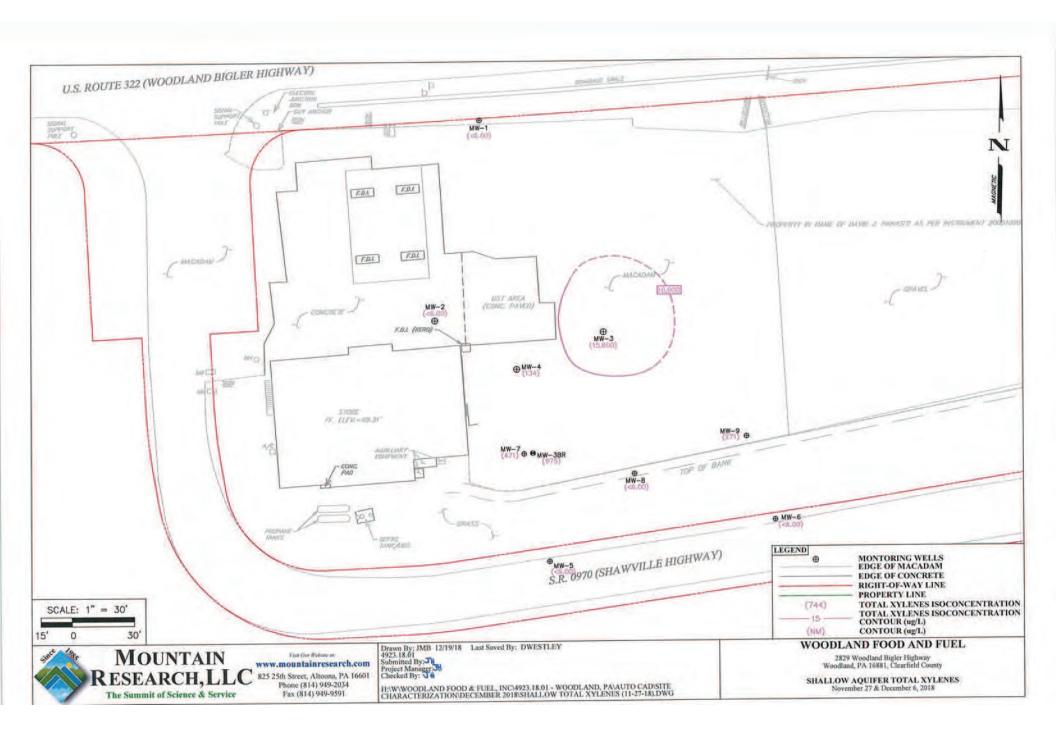


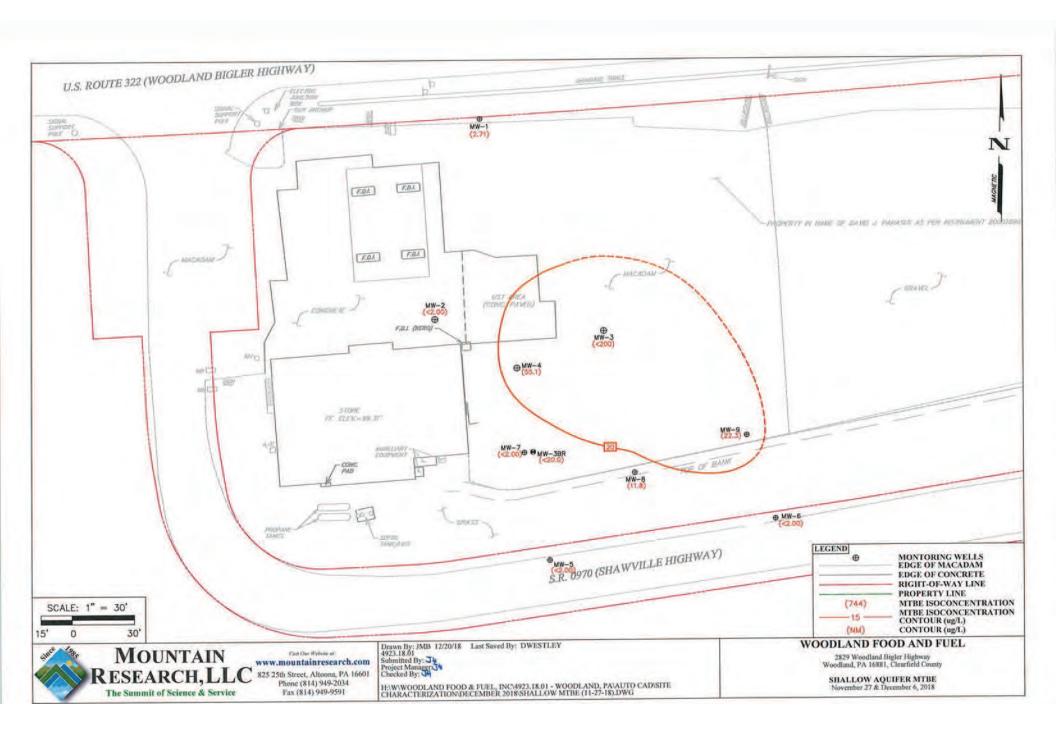


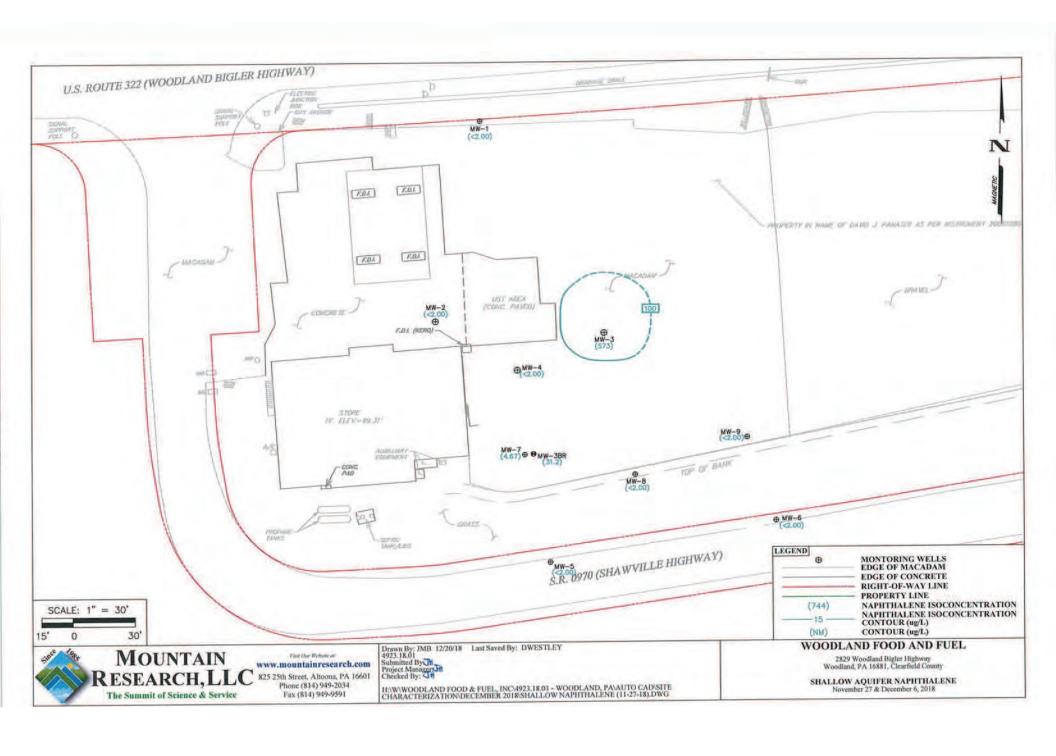


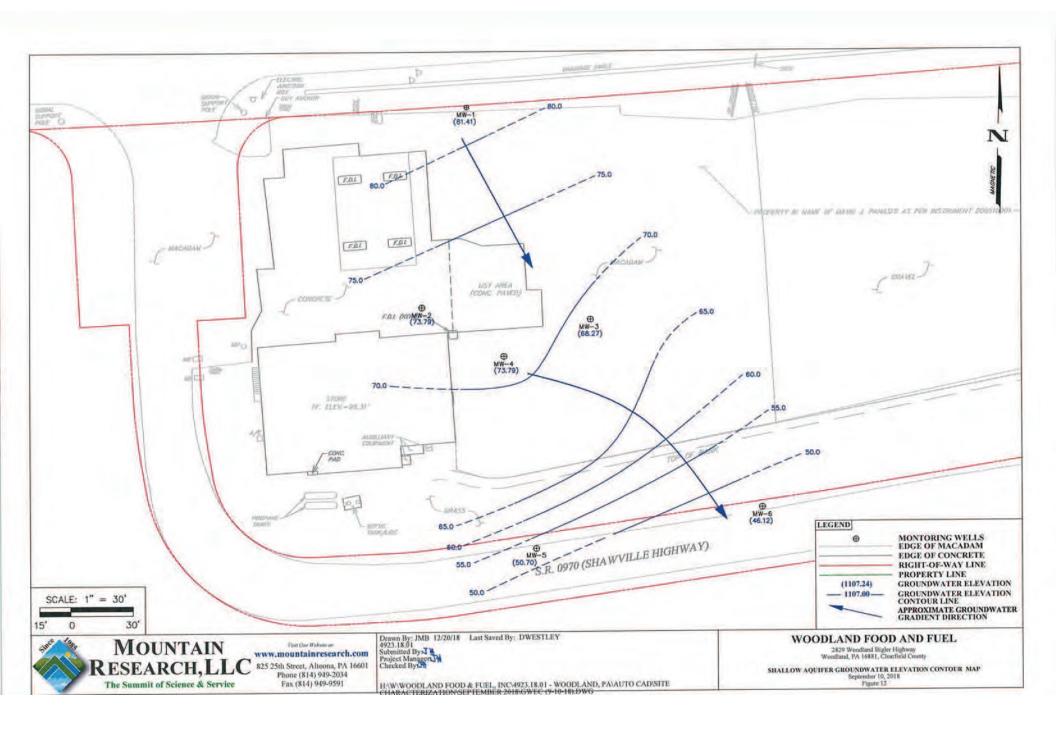


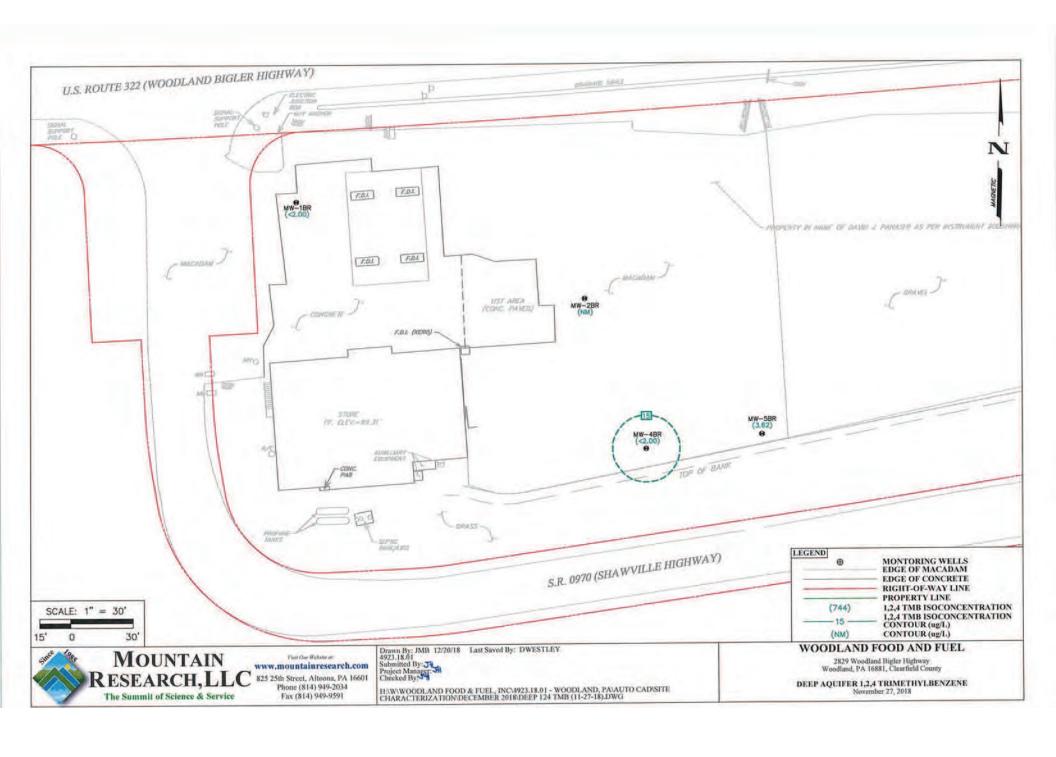


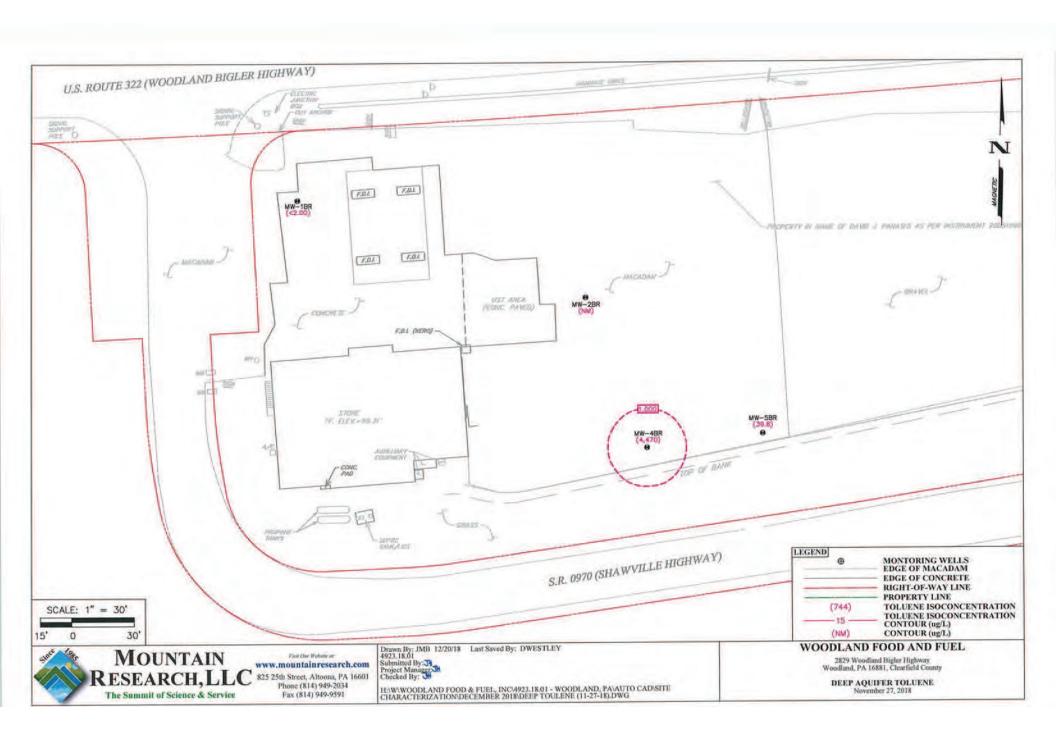


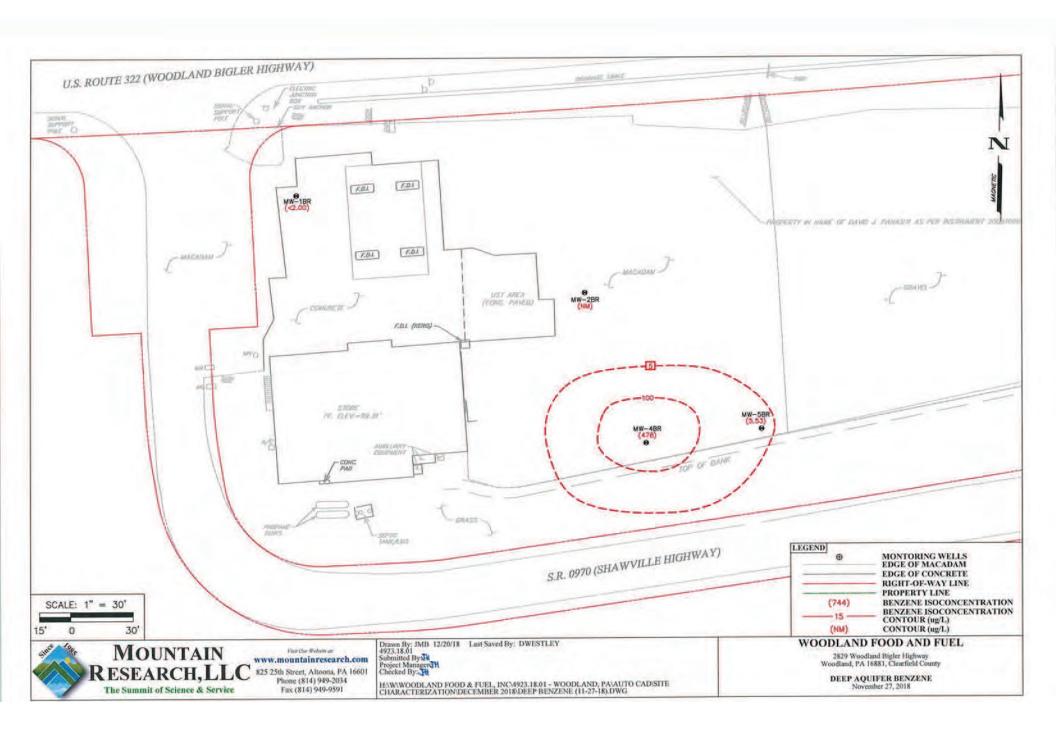
















39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December 17, 2018

Jason Haney Mountain Research, LLC 825 25th Street Altoona, PA 16601

Project Location: Woodland, PA

Client Job Number:

Project Number: 4923.18.01

Laboratory Work Order Number; 18L0604

M MCorthy

Enclosed are results of analyses for samples received by the laboratory on December 13, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy Project Manager

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

Mountain Research, LLC 825 25th Street Altoona, PA 16601 ATTN: Jason Haney

REPORT DATE: 12/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 4923.18.01

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

18L0604

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

PROJECT LOCATION:

Woodland, PA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB	
SSVP-1	18L0604-01	Soil Gas		EPA TO-15		
SSVP-I Duplicate	18L0604-02	Soil Gas		EPA TO-15		
Vapor Mitigation	18L0604-03	Soil Gas		EPA TO-15		



CASE NARRATIVE SUMMARY

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

EPA TO-15

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

18L0604-01[SSVP-1], 18L0604-02[SSVP-1 Duplicate]

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound. Analyte & Samples(s) Qualified:

Naphthalene S030348-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing, I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski Laboratory Director



ANALYTICAL RESULTS

Project Location: Woodland, PA Date Received: 12/13/2018 Field Sample #: SSVP-1 Sample ID: 18L0604-01 Sample Matrix: Soil Gas Sampled: 12/11/2018 16:13 Sample Description/Location: Sub Description/Location: Canister ID: 1732 Canister Size: 6 liter Flow Controller ID: 4190 Sample Type: 30 min Work Order: 18L0604
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -6.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

	I	PA TO-15					
ppl	by		ug/r	m3		Date/Time	
Results	RL	Flag/Qual	Results	RL	Dilution	Analyzed	Analyst
ND	0.50		ND	1.6	10	12/14/18 6:59	BRF
ND	0.50		ND	2.2	10	12/14/18 6:59	BRF
ND	1.3		ND	6.2	10	12/14/18 6:59	BRF
ND	0.50		ND	1.8	10	12/14/18 6:59	BRF
ND	0.50		ND	2.6	10	12/14/18 6:59	BRF
ND	0.50		ND	1.9	10	12/14/18 6:59	BRF
ND	0.50		ND	2.5	10	12/14/18 6:59	BRF
ND	0.50		ND	2.5	10	12/14/18 6:59	BRF
ND	1.0		ND	4.3	10	12/14/18 6:59	BRF
ND	0.50		ND	2.2	10	12/14/18 6:59	BRF
% Recon	very		% REC	C Limits			
	102		70	-130		12/14/18 6:59	
	113		70	-130		12/14/18 6:59	
	Results ND	Ppbv Results RL ND	Results RL Flag/Qual ND 0.50 ND 0.50 ND 1.3 ND 0.50 ND 0.50 ND 0.50 ND 0.50 ND 0.50 ND 1.0 ND 0.50 ND 0.50 ND 0.50 ND 0.50 ND 1.0 ND 0.50	Ppbv	ND 0.50 ND 1.6	ppbby ug/m3 Results RL Flag/Qual Results RL Dilution ND 0.50 ND 1.6 10 ND 0.50 ND 2.2 10 ND 1.3 ND 6.2 10 ND 0.50 ND 1.8 10 ND 0.50 ND 2.6 10 ND 0.50 ND 2.5 10 ND 0.50 ND 2.5 10 ND 0.50 ND 2.5 10 ND 1.0 ND 4.3 10 ND 0.50 ND 2.2 10 **Recovery* **REC Limits*	Results RL Flag/Qual Results RL Date/Time Analyzed ND 0.50 ND 1.6 10 12/14/18 6:59 ND 0.50 ND 2.2 10 12/14/18 6:59 ND 0.50 ND 1.8 10 12/14/18 6:59 ND 0.50 ND 2.6 10 12/14/18 6:59 ND 0.50 ND 1.9 10 12/14/18 6:59 ND 0.50 ND 2.5 10 12/14/18 6:59 ND 0.50 ND 2.5 10 12/14/18 6:59 ND 1.0 ND 4.3 10 12/14/18 6:59 ND 0.50 ND 2.2 10 12/14/18 6:59 ND 0.50 ND 2.2 10 12/14/18 6:59 WG Recovery % REC Limits 12/14/18



ANALYTICAL RESULTS

Project Location: Woodland, PA Date Received: 12/13/2018 Field Sample #: SSVP-1 Duplicate Sample ID: 18L0604-02 Sample Matrix: Soil Gas

Sampled: 12/11/2018 16:18

Sample Description/Location: Sub Description/Location: Canister ID: 1456 Canister Size: 6 liter Flow Controller ID: 4181 Sample Type: 30 min Work Order: 18L0604 Initial Vacuum(in Hg): -28 Final Vacuum(in Hg): -5 Receipt Vacuum(in Hg): -6.3 Flow Controller Type: Fixed-Orifice Flow Controller Calibration RPD Pre and Post-Sampling:

	F	PA TO-15						
ppl	ov		ug/n	n3		Date/Tir	me	
Results	RL	Flag/Qual	Results	RL	Dilution	Analyz	ed	Analyst
ND	0.50		ND	1.6	10	12/14/18	7:48	BRF
ND	0.50		ND	2.2	10	12/14/18	7:48	BRF
ND	1.3		ND	6.2	10	12/14/18	7:48	BRF
ND	0.50		ND	1.8	10	12/14/18	7:48	BRF
ND	0.50		ND	2.6	10	12/14/18	7:48	BRF
ND	0.50		ND	1.9	10	12/14/18	7:48	BRF
ND	0.50		ND	2.5	10	12/14/18	7:48	BRF
ND	0.50		ND	2.5	10	12/14/18	7:48	BRF
ND	1.0		ND	4.3	10	12/14/18	7:48	BRF
ND	0.50		ND	2.2	10	12/14/18	7:48	BRF
% Recor	very		% REC	C Limits				
	103		70	-130				
	116		70	130		12/14/18	7:48	
	Results ND ND ND ND ND ND ND ND ND N	Ppbv Results RL	Results RL Flag/Qual ND	Ppbv Ug/n	Results RL Flag/Qual Results RL	ND 0.50 ND 1.6 10	Part	ppb∨ ug/m3 Date/Time Analyzed Results RL Flag/Qual Results RL Dilution Analyzed ND 0.50 ND 1.6 10 12/14/18 7:48 ND 0.50 ND 2.2 10 12/14/18 7:48 ND 0.50 ND 1.8 10 12/14/18 7:48 ND 0.50 ND 2.6 10 12/14/18 7:48 ND 0.50 ND 1.9 10 12/14/18 7:48 ND 0.50 ND 2.5 10 12/14/18 7:48 ND 0.50 ND 2.5 10 12/14/18 7:48 ND 1.0 ND 4.3 10 12/14/18 7:48 ND 0.50 ND 2.2 10 12/14/18 7:48 ND 0.50 ND 4.3 10 12/14/18 7:48 <td< td=""></td<>



ANALYTICAL RESULTS

Project Location: Woodland, PA Date Received: 12/13/2018 Field Sample #: Vapor Mitigation Sample ID: 18L0604-03 Sample Matrix: Soil Gas Sampled: 12/11/2018 16:19 Sample Description/Location: Sub Description/Location: Canister ID: 1615 Canister Size: 6 liter Flow Controller ID: 4180 Sample Type: 30 min Work Order: 181.0604 Initial Vacuum(in Hg): -26 Final Vacuum(in Hg): -5 Receipt Vacuum(in Hg): -6.6 Flow Controller Type: Fixed-Orifice Flow Controller Calibration RPD Pre and Post-Sampling:

Flag/Qual Results 23 0,71 21 ND ND	g/m3 RL 0.32 0.43 1.2 0.36	Dilution 2 2 2	Date/Time Analyzed 12/14/18 8:30 12/14/18 8:30 12/14/18 8:30	Analyst BRF BRF
23 0,71 21 ND	0.32 0.43 1.2	2 2	12/14/18 8:30 12/14/18 8:30	BRF BRF
0,71 21 ND	0.43	2	12/14/18 8:30	BRF
21 ND	1.2			
ND		2	12/14/18 8:30	TO 19 27
	0.36		12.000	BRF
ND		2	12/14/18 8:30	BRF
. ,	0.52	2	12/14/18 8:30	BRF
2.8	0.38	2	12/14/18 8:30	BRF
ND	0.49	2	12/14/18 8:30	BRF
0.63	0.49	2	12/14/18 8:30	BRF
2.4	0.87	2	12/14/18 8:30	BRF
0.91	0.43	2	12/14/18 8:30	BRF
% R	EC Limits			
	70-130		12/14/18 8:30	
	70-130		12/14/18 8:30	
	0.91 % R		0.91 0.43 2 % REC Limits 70-130	0.91 0.43 2 12/14/18 8:30 % REC Limits 12/14/18 8:30



Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15		Pressure	Pre	Pre-Dil Initial	Pre-Dil Final	Default Injection	Actual Injection	
Lab Number [Field ID]	Batch	Dilution	Dilution	mI.	mL	mI.	mL	Date
18L0604-01 [SSVP-1]	B219354	1.5	1	N/A	1000	400	60	12/13/18
8L0604-02 [SSVP-1 Duplicate]	B219354	1.5	1	N/A	1000	400	60	12/13/18
8L0604-03 [Vapor Mitigation]	B219354	1.5	1	N/A	1000	400	300	12/13/18



QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

	pp	bv	ug/r	n3	Spike Level	Source		%REC		RPD	FI 10 1
Analyte	Results	RL.	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	Flag/Qual
Batch B219354 - TO-15 Prep											
Blank (B219354-BLK1)					Prepared & /	Analyzed: 12	/13/18				
Benzene	ND	0.035									
Ethylbenzene	ND	0.035									
Isopropylbenzene (Cumene)	ND	0.089									
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Naphthalene	ND	0.035									
Toluene	ND	0.035									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	7.72				8.00		96.6	70-130			
Surrogate: 4-Bromofluorobenzene (2)	8.70				8.00		109	70-130			
Surrogate: 4-Bromofluorobenzene (4)	0.00				8,00			* 70-130			
LCS (B219354-BS1)					Prepared &	Analyzed: 12	2/13/18				
Benzene	4.61				5.00		92.3	70-130			
Ethylbenzene	4.99				5.00		99.7	70-130			
Isopropylbenzene (Cumene)	1.23				1.27		96.8	70-130			
Methyl tert-Butyl Ether (MTBE)	5.90				5.00		118	70-130			
Naphthalene	5.50				5.00		110	70-130			
Toluene	5.05				5.00		101	70-130			
1,2,4-Trimethylbenzene	5.26				5.00		105	70-130			
1,3,5-Trimethylbenzene	5.17				5.00		103	70-130			
m&p-Xylene	10.2				10.0		102	70-130			
o-Xylene	5.05				5.00		101	70-130			
Surrogate: 4-Bromofluorobenzene (1)	8.04				8.00		100	70-130			
Surrogate: 4-Bromofluorobenzene (2)	8.61				8.00		108	70-130			
Surrogate: 4-Bromofluorobenzene (4)	0.00				8.00			* 70-130			



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

	QC result is outside of established limits.
+	Wide recovery limits established for difficult compound.
1	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL.	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
RL-12	Elevated reporting limit due to matrix interference.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is no



INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff	Q
LCS (B219354-BS1)			Lab File ID: F1213	06.D		Analyzed: 12/13	/18 14:26		
Bromochloromethane (1)	105284	8.627	109159	8.63	96	60 - 140	-0.0030	+/-0.50	
1,4-Difluorobenzene (1)	358410	10,399	373724	10.399	96	60 - 140	0.0000	+/-0,50	
Chlorobenzene-d5 (1)	326963	14.765	357564	14.765	91	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	384008	10.399	359297	10.396	107	60 - 140	0.0030	+/-0.50	
Chlorobenzene-d5 (2)	65972	14.772	59816	14.772	110	60 - 140	0.0000	+/-0.50	
Bromochloromethane (4)						60 - 140	0.0000	+/-0.50	9
1,4-Difluorobenzene (4)						60 - 140	0.0000	+/-0.50	*
Chlorobenzene-d5 (4)						60 - 140	0.0000	+/-0.50	4
Blank (B219354-BLK1)			Lab File ID: F1213	11.D		Analyzed: 12/13	3/18 18:12		
Bromochloromethane (1)	102314	8.633	109159	8.63	94	60 - 140	0.0030	+/-0.50	
1,4-Difluorobenzene (1)	342099	10.402	373724	10.399	92	60 - 140	0.0030	+/-0.50	
Chlorobenzene-d5 (1)	323884	14.765	357564	14.765	91	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	340450	10.402	359297	10.396	95	60 - 140	0.0060	+/-0.50	Т
Chlorobenzene-d5 (2)	57747	14.765	59816	14.772	97	60 - 140	-0.0070	+/-0.50	
Bromochloromethane (4)						60 - 140	0.0000	+/-0.50	1
1,4-Difluorobenzene (4)						60 - 140	0.0000	+/-0.50	0
Chlorobenzene-d5 (4)	4					60 - 140	0.0000	+/-0.50	
SSVP-1 (18L0604-01)			Lab File ID: F121	324.D		Analyzed: 12/1	4/18 06:59		
Bromochloromethane (1)	90124	8.633	109159	8.63	83	60 - 140	0.0030	+/-0.50	
1,4-Difluorobenzene (1)	289518	10.399	373724	10.399	77	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	311884	14.765	357564	14.765	87	60 - 140	0.0000	+/-0.50	1
1,4-Difluorobenzene (2)	289060	10.399	359297	10.396	80	60 - 140	0,0030	+/-0.50	T
Chlorobenzene-d5 (2)	57477	14.765	59816	14.772	96	60 - 140	-0,0070	+/-0.50	T
SSVP-1 Duplicate (18L0604-02)			Lab File ID: F121	325.D		Analyzed: 12/1	4/18 07:48		
Bromochloromethane (1)	89403	8.627	109159	8.63	82	60 - 140	-0.0030	+/-0.50	I
1,4-Difluorobenzene (1)	298026	10.399	373724	10.399	80	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	322369	14.768	357564	14.765	90	60 - 140	0.0030	+/-0.50	
1.4-Difluorobenzene (2)	296552	10.399	359297	10.396	83	60 - 140	0.0030	+/-0.50	
Chlorobenzene-d5 (2)	57999	14.765	59816	14.772	97	60 - 140	-0.0070	+/-0.50	
Vapor Mitigation (18L0604-03)			Lab File ID: F121	326.D		Analyzed: 12/1	4/18 08:30		
Bromochloromethane (1)	94637	8.63	109159	8,63	87	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	310407	10.395	373724	10,399	83	60 - 140	-0.0040	+/-0.50	
Chlorobenzene-d5 (1)	295560	14.762	357564	14.765	83	60 - 140	-0.0030	+/-0.50	
1,4-Difluorobenzene (2)	309466	10.395	359297	10.396	86	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (2)	53421	14.762	59816	14.772	89	60 - 140	-0.0100	+/-0.50	



CONTINUING CALIBRATION CHECK

				RE	SPONSE FACTO	R	% DIF	F/DRIFT
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)

[#] Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

^{*} Values outside of QC limits



CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
(Y	New York State Department of Health	10899 NELAP	04/1/2019
VH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
U	Rhode Island Department of Health	LAO00112	12/30/2018
IC	North Carolina Div. of Water Quality	652	12/31/2019
4)	New Jersey DEP	MA007 NELAP	06/30/2019
1.	Florida Department of Health	E871027 NELAP	06/30/2019
/T	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
/T-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Con-test	Phone: 413-525-2332		CHAIN	DE CUSTOI	CHAIN OF CUSTODY RECORD (AIR) Requested Turnaround Time	R	A	ANALYSIS	Eas IS REC	East Longmeadow, MA 01028 REQUESTED	D	MA OT	970	
Company Name: N. Street	But.	777	7-Day Due Date:	Jsh-Appro	10-Day E	No.						. 5	Please fill sign, date yellow	Please fill out completely, sign, date and retain the yellow copy for your records
449-203 4923,18.	Vertland Food & Fuel		щ	Data Data	4-Day Data Delivery			34700	38 FM 8MT-8,5,		Initial Pre	Lab Receipt Final Pre		Summe cenisters and flow controllers must be returned within 15 days. of receipt or rental fees will apply
ser: 1,84200 te Name/Number: ent:	202181 MOA ANN		Fo;	a Pkg Req	han y Punsumain 1845.	Carch.	cam	רחשפטי	solene,					For summa canister and flow controller information please refer to Con-Text's Air Media
Sampled by. Off	Cllent Use	Collectio	- 35.7	Duration	Flow Rate	Matrix	Volume	'X	144	1 - 1		-	4	Agreement
Con-Test	Citent Sample ID 7 Description	Beginning Date/Time	Ending Date/Time	Minutes	m,/mm	Cade	Libers	718	don	1'Z'1			Summe Can	Controller ID
	45VP-1	81/11/21	14/18			56		×	×		-17	3,5-	1	06/1/
6	45UP-1 Dualitate	\$1/11/21	12/11/18			98		×	×		100	-5	3 1456	18/4
3	Highton,	12/1/21	81/11/21			25		×	X	×	77	9.9	1615	08/17
المان الم										-		+	1	
									+	+		+	1	
								1	+	+		+	1	
A CONTRACTOR OF THE PROPERTY O									+	+		+	-	
									1	+		+	1	
										+		1	-	
Comments:	socertations should be li	low to clean.	sean.	P. H.	Please use the following codes to indicate possible sample concentration within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U - Unknown	flowing co within the	des to Indi e Conc Coc Low; C - C	i indicate possible sampli c Code column above: C - Clean; U - Unknown	ssible mn abr J - Uni	sample rve: mown			Matr SG =	Matrix Codes: SG = SOIL GAS
Relinquished By: (signature)	Date/Times 1950	700	Detection Limit Requirements	ulrements		Special Requirements MA MCP Req	quirements MA MCP Required						AMB SS=	IA = INDOOR AIR AMB = AMBIENT SS = SUB SLAB
Received by Asignature	Date/Time: 854				MCP Cer	tification F	MCP Certification Form Required CT RCP Required	7 17	1	con-tes	Z	ES	BL = BL	BL = BLANK 0 = Other
Relinquished by (signature)	Date/Time:	15			RCP Cer	tification f	RCP Certification form Required	7 701			1	-	_	
Received by: (signature)	Date/Time:	Other		h			Other	7		8			_	
Relinquished by: (signature)	Date/Time:	Project Entity	ntity		Municipality		MWRA		WRTA	ette 🗆	Chro	r Chromatogram	am	PCB ONLY Soxhlet
Received by: (signature)	Date/Time:		Federal		717		School				AIM	AIHA-LAP, LLC	97	Non Soxhlet

MOUNTAIN RESEARCH, LLC

Purchase Order 26215

DRAFT

DATE

12/12/18

FILLI, LLC

OBA/CON-TEST ANALYTICAL LABORATORY

B25 25th Street

Altoona, PA 16601 EAST LONGMEADOW, MA 01028 PHONE 413-525-2332 x 55 FAX 413-525-6405

PHONE 814-949-2034 EXT 230 FAX 814-949-9591 E-MAIL ewalters@mountainresearch.com

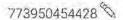
MOUNTAIN RESEARCH, LLC 825 25th Street Altoona, PA 16601 70 PHONE 814-949-2034 ext 230 FAX 814-949-9591 E-MAIL ewalters@mountainresearch.com

P.O. NUMBER ORDER DATE BUYER PAY TERMS **EXCESS RECV** EXCESS % **EXCESS AMOUNT** 26215 12/12/18 Haney, Jason 21 N AGREEMENT TERMS

	TO STATE OF THE PROPERTY OF THE PARTY OF THE	
240.00		Due Date 1/11/2019
	240,00	Unit Price Net Amount 1 240,00 720.00

Total 720.00







Delivered Thursday 12/13/2018 at 8:54 am



DELIVERED

Signed for by: M.PETRAITIS

GET STATUS UPDATES OBTAIN PROOF OF DELIVERY

FROM Altoona, PA US

TO EAST LONGMEADOW, MA US

Shipment Facts

TRACKING NUMBER 773950454428

DIMENSIONS 22x18x14 in.

TOTAL SHIPMENT WEIGHT 22 lbs / 9.98 kas

SHIPPER REFERENCE Project 4923.18.01

STANDARD TRANSIT

12/13/2018 by 10:30 am

SERVICE

FedEx Priority Overnight

DELIVERED TO

Shipping/Receiving

TERMS

Recipient

PACKAGING Your Packaging

SHIP DATE (7)

https://www.fedex.com/apps/fedextrack/?action=track&tracknumbers=773950454428&locale=en_US&cntry_code=us

Wed 12/12/2018

WEIGHT

22 lbs / 9.98 kgs

TOTAL PIECES

PURCHASE ORDER NUMBER

26215

SPECIAL HANDLING SECTION

Local Scan Time

Deliver Weekday

ACTUAL DELIVERY Thu 12/13/2018 8:54 am

Travel History

Thursday , 12/13/2018 EAST LONGMEADOW, MA 8:54 am

WINDSOR LOCKS, CT

On FedEx vehicle for delivery

WINDSOR LOCKS, CT 7:37 am

At local FedEx facility

6:52 am EAST GRANBY, CT At destination sort facility Departed FedEx location

Wednesday, 12/12/2018

11:30 pm

5:17 am

8:09 am

INDIANAPOLIS, IN

INDIANAPOLIS, IN

Arrived at FedEx location

Page 16 of 17

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over



Client Mounta		leave h	Date	12 13 119	χ T	ime	854	
Received By	RAP	In Cooler	Date	On Ice		lo lce		-
ow were the samples received?		In Box	T	Ambient		Ited Ice		_
feceived?	emperature	10 - 50	By Gun#		Actual Temp			-
Were samples within Temperature Compliance? 2-6°C Was Custody Seal Intact? Was COC Relinquished?		MA	By Blank #	Actual Temp -				-
				Were Samples Tampered with?			M	
		T		Does Chain Agree With Samples?				
Are there any loos	e caps/valve	s on any sa	amples?	F				
COC in ink/ Legible?				-			T	
d COC Include all	Client	T	Analysis	1	Sampler Na		1	-
ertinent Information?	Project	+	ID's	1	Collection Dates	/Times		-1
re Sample Labels fille		ible?	+		0			
re there Rushes?	T		Who wa	s notified?	Britt		è	
amples are received v	vithin holding	time?	T			c		
Proper Med	dia Used?		_	Individually Ce	ertified Cans?			
Are there T	rip Blanks?	F	_	Is there enoug	in volume?	7		
Wall and the state of the state		provide Name of the Party of th		Distriction		Algeres	ionnese.	
Containers:	#	Size	Regulator 3	30 mm	Nut/Ferrule	E. S. A. L. C. Kalin	IC Train	
Summa Cans	3	COL	- 2	301111	Tubing			
					lubing			
Tedlar Bags		-			T-Connector		Shippiners	ALL COLOR
TO-17 Tubes							s Signal (Person	inarate:
TO-17 Tubes Radiello					T-Connector		Spinale	inerge
TO-17 Tubes					T-Connector Syringe		Shidolide	
TO-17 Tubes Radiello Pufs/TO-11s				Reg #5	T-Connector Syringe		Shipping	
TO-17 Tubes Radiello Pufs/TO-11s Gan #'8				4190	T-Connector Syringe		Shippings	
TO-17 Tubes Radiello Pufs/TO-11s				4181	T-Connector Syringe		Shidologic	
TO-17 Tubes Radiello Pufs/TO-11s Can #'s				4190	T-Connector Syringe		Shippings	
TO-17 Tubes Radiello Pufs/TO-11s Can #'s 1732				4181	T-Connector Syringe		Shippings	
TO-17 Tubes Radiello Pufs/TO-11s Gan #'s 1232 1456				4181	T-Connector Syringe		Shippings	Bharats
TO-17 Tubes Radiello Pufs/TO-11s Can #'s 17-3 2 14-5 6 1(a) 5				4190 4181 4180	T-Connector Syringe Tedlar		Shippings	
TO-17 Tubes Radiello Pufs/TO-11s Can #'s 1732				4190 4181 4180	T-Connector Syringe		Shippings	
TO-17 Tubes Radiello Pufs/TO-11s Can #'s 17-3 2 14-5 6 1(a) 5				4190 4181 4180	T-Connector Syringe Tedlar		Shippings	
TO-17 Tubes Radiello Pufs/TO-11s Can #'s 17-32 14-5-6 1(a) 5				4190 4181 4180	T-Connector Syringe Tedlar		Shippings	
TO-17 Tubes Radiello Pufs/TO-11s Can #'s 17-32 14-5-6 1(a) 5				4190 4181 4180	T-Connector Syringe Tedlar		Shippings	



APPENDIX S
PNDI SEARCH AND RESULTS

1. PROJECT INFORMATION

Project Name: Woodland Food and Fuel Date of Review: 9/11/2018 10:33:14 AM

Project Category: Hazardous Waste Clean-up, Site Remediation, and Reclamation, Spill (e.g., oil, chemical)

Project Area: 2.82 acres County(s): Clearfield

Township/Municipality(s): BRADFORD

ZIP Code: 16881

Quadrangle Name(s): WALLACETON

Watersheds HUC 8: Upper West Branch Susquehanna Watersheds HUC 12: Morgan Run-Lower Clearfield Creek

Decimal Degrees: 40.999554, -78.346038

Degrees Minutes Seconds: 40° 59' 58.3927" N, 78° 20' 45.7364" W

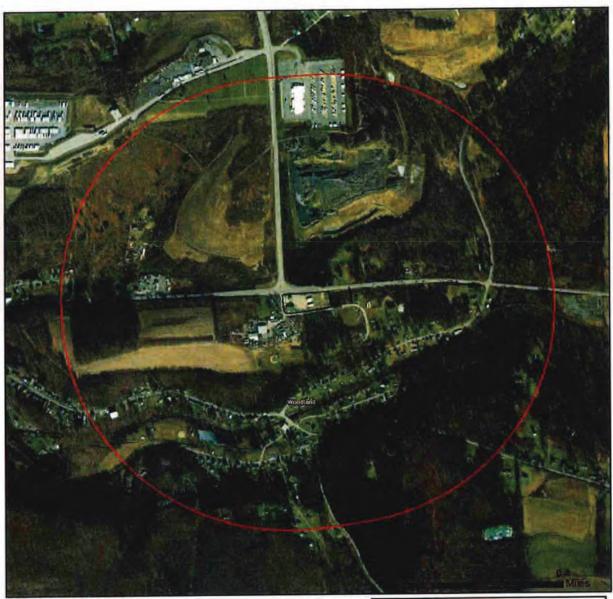
This is a draft receipt for information only. It has not been submitted to jurisdictional agencies for review.

2. SEARCH RESULTS

Agency	Results	Response	
PA Game Commission	No Known Impact	No Further Review Required	
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required	
PA Fish and Boat Commission	No Known Impact	No Further Review Required	
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required	

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

Woodland Food and Fuel

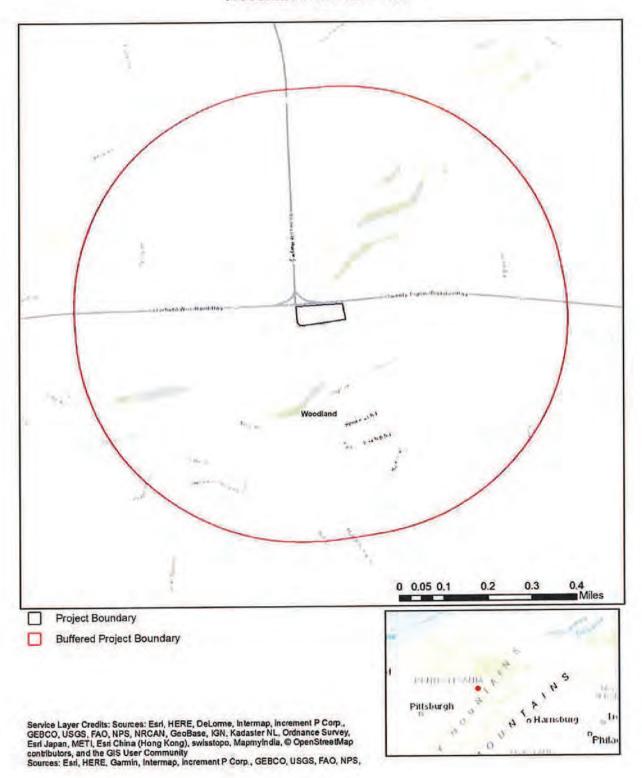


Project Boundary

Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Woodland Food and Fuel



3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jursidictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at https://conservationexplorer.dcnr.pa.gov/content/resources.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.