

Freedom Industries, Inc.

Phase I Environmental Site Assessment Report

Etowah River Terminal
1015 Barlow Drive
Charleston, WV

December 30, 2014

Revised February 20, 2015



Todd J. Aebie
Project Geologist

Ira Buchanan
Project Manager, LRS

**Phase I Environmental Site
Assessment Report**

Etowah River Terminal
1015 Barlow Drive
Charleston, WV 25311

Prepared for:
Freedom Industries, Inc.

Prepared by:
ARCADIS U.S., Inc.
100 E Campus View Blvd
Suite 200
Columbus
Ohio 43235-1447
Tel 614 985 9100
Fax 614 985 9170

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Acronyms and Abbreviations

ARCADIS	ARCADIS U.S., Inc.
AST	Aboveground Storage Tank
ASTM	ASTM International
CRECs	controlled recognized environmental conditions
EDR	Environmental Data Resources, Inc.
ESA	Environmental Site Assessment
FEMA	Federal Emergency Management Agency
HRECs	historical recognized environmental conditions
LUC	Land Use Covenant
LUST	Leaking Underground Storage Tank
PCBs	polychlorinated biphenyls
pCi/L	picoCuries/liter
RCRA	Resource Conservation and Recovery Act
RECs	recognized environmental conditions
UST	Underground Storage Tank
WVDEP	West Virginia Department of Environmental Protection

Executive Summary

ARCADIS U.S., Inc. (ARCADIS) was retained by Freedom Industries, Inc. (Freedom Industries, aka Etowah River Terminal), to conduct a Phase I Environmental Site Assessment (ESA) of the Etowah River Terminal, LLC facility located at 1015 Barlow Drive, Charleston, West Virginia 25311 (Site). The Site was a former liquid bulk storage and distribution facility providing chemicals, primarily to the mining industry. Site activities included the storage, staging, formulation, and distribution of chemicals and compounds primarily used in the mining industry.

On January 9, 2014 a release was reported from storage Tank 396 which contained a blend of 85.5% 4-methylcyclohexanemethanol (MCHM), 7.3% propylene glycol phenyl ether (PPH), and 4% water by weight. The released material flowed onto the ground surface and into the adjacent Elk River. The material released into the Elk River entered the water supply intake of West Virginia American Water Company (WVAWC), which serves 300,000 customers in Kanawha and surrounding counties. Immediate spill response measures and initial remediation have been completed since the January 9, 2014 Tank 396 failure and release.

Subsequent to the MCHM release on January 9, 2014, on January 10, 2014, the West Virginia Department of Environmental Protection (WVDEP) issued Order No. 8027 to Etowah River Terminal. The Order required that Etowah River Terminal immediately cease and desist any further receipt of material to be stored within the area of the faulty secondary containment. In addition, the Order required Etowah River Terminal to immediately take all necessary measures to contain, recover and remediate the material that escaped the breached above ground storage tank and the secondary containment structure, including installation of interceptor trenches adjacent to the Elk River and installation and maintenance of booms and absorbents in affected waterways. The Order also required Etowah River Terminal to immediately conduct an integrity test of all above ground storage tanks and secondary containment structures for the entire facility. Prior to resuming receipt of material to be stored, Etowah River Terminal was required to provide a report for approval which documented that the integrity of all storage and containment structures were sound.

On January 10, 2014 WVDEP issued Order No. 8028 to Freedom Industries. The Order required Freedom Industries to, within twenty-four (24) hours, begin removal of all material from all above ground storage tanks and store the material in an off-site area which provides adequate secondary containment.

On January 22, 2014, WVDEP issued Order No. 8033 to Freedom Industries. The Order required that, by 4:00 pm on January 22, 2014, Freedom Industries provide any and all information fully describing the composition of the materials spilled to the Elk River on January 9, 2014.

On March 11, 2014, Freedom Industries and WVDEP entered into Consent Order No. 8034. The Order required that, on or before March 15, 2014, Freedom Industries remove all material from all above ground storage tanks at the Charleston facility and store the material in an off-site area which provides adequate secondary containment, in accordance with WV Legislative Rule 47CSR58 Section 4.8.a. Upon commencement of the removal of the materials from the tanks, and on a weekly basis thereafter, until project completion, Freedom Industries was required to provide a written report to WVDEP detailing progress, outlining anticipated actions, and describing the disposition of the materials removed from the tanks. In addition, the Order required that, on or before March 15, 2014, Freedom Industries begin dismantling, removing, and properly disposing of all above ground storage tanks, associated piping, machinery, and appurtenances, associated with the bulk storage operations at the Charleston facility. Freedom Industries was required to provide appropriate interim measures to insure that secondary containment was adequate to contain any spills resulting from its dismantling operations. Secondary containment structures surrounding the ASTs were required to remain in place until the ASTs were dismantled and removed from the site. Upon commencement of the dismantling and removal of these fixtures, and on a weekly basis thereafter until the project was completed, Freedom Industries was required to provide a written report to WVDEP detailing progress, outlining anticipated actions, and describing the disposition of the materials removed from the Site.

On December 22, 2014, Freedom Industries and WVDEP entered into Consent Order No. 8207, including all of the requirements in the Orders referenced above and requiring it to commence excavation, removal and proper disposal of the soils and substrate impacted by the January 9, 2014 MCHM spill from Tank 396. The Consent Order also required Freedom Industries to implement a plan and schedule for conducting a preliminary site investigation to determine the exact contamination remaining from the January 9, 2014 spill, as described in the September 16, 2014 Remediation and Investigation Plan. Within 15 calendar days of the effective date of the Consent Order, Freedom Industries was required to submit for approval a proposed plan and timeline for accomplishing remediation of the Etowah site to be achieved as approved by the WVDEP Division of Water and Waste Management. As an alternative to the proposed plan and timeline, the Consent Order stated that Freedom Industries may apply to the WVDEP Division of Land Restoration Remediation Program (VRP) within 15 calendar days after the effective date of

the Consent Order. Should Freedom Industries fail to apply, be denied entry into the VRP, or withdraw from VRP enrollment, or otherwise fail to successfully complete the requirements of the VRP, Freedom Industries shall comply with the requirement to remediate the Site as approved by the WVDEP Division of Water and Waste Management.

Freedom Industries has chosen to apply to the VRP, pursuant to the Consent Order. As part of the application to the VRP, Freedom Industries submits this Phase I ESA, which was conducted by ARCADIS. The Phase I ESA was conducted in general accordance with the ASTM International (ASTM) Standard E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The goal of the Phase I ESA was to identify recognized environmental conditions (RECs), controlled recognized environmental conditions (CRECs), and historical recognized environmental conditions (HRECs) associated with the property in conformance with ASTM E 1527-13.

A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment. *De minimis* conditions are not RECs.

A CREC is defined as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls

An HREC is defined as a past release of any hazardous substances or petroleum products that has occurred in connection with the *property* and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the *property* to any required controls (for example, *property* use restrictions, *activity and use limitations*, *institutional controls*, or *engineering controls*).

The ASTM practice requires environmental professionals to identify data gaps following reasonable inquiry of the Site and Freedom Industries personnel and ARCADIS' search for

“reasonably ascertainable” resources. ASTM E 1527-13 defines a data gap as “a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information.”

The Phase I ESA included a visual inspection of the property completed on December 9, 2014 observation of adjacent properties, reviews of environmental regulatory agency records, historical documents, and facility records that were available or on site, and interviews with personnel represented to be familiar with the Site as indicated elsewhere in the report.

The Site use was that of a former liquid bulk storage and distribution facility. Currently, the Site consists of an office building and a garage and storage facility. The Site previously contained over 15 above ground storage tanks and associated piping prior to being demolished and removed in August and September 2014. The Site is undergoing investigation and cleanup under enforcement actions resulting from the spill in January 2014.

Historical references indicate that prior to 1930's the Site was used for agricultural purposes. The Site was developed in 1930 as a bulk petroleum storage facility. The site was operated by Elk Refining Company (Elk) from the 1940's until the late 1970's when Elk merged with Pennzoil United, Inc. (now Pennzoil-Quaker State). In 2001 the Site was sold to Etowah River Terminals LLC, and was transformed into a liquid bulk storage and distribution facility. The Etowah River Terminals LLC, facility stored and distributed freeze conditioning agents including ethylene glycol and calcium chloride solutions.

The findings identified by ARCADIS are summarized below and discussed in greater detail in the body of the report.

Recognized Environmental Conditions (RECs)

Several RECs have been identified during the Phase I ESA. The identified RECs are listed below:

- The Oil Water Separator—is a REC as it is buried in the ground and received spills associated with the loading and unloading of materials from the ASTs.
- The Aboveground Storage Tanks—the Aboveground Storage Tanks are RECs as they previously contained petroleum products and most recently contained other non-

hazardous materials. The Aboveground Storage Tanks have been demolished since the time of the January 2014 release.

- The Fuel and Oil Loading Rack areas – the trench drains beneath each loading rack drained to an OWS. These areas are RECs because of the history of petroleum product spills and their association with the Aboveground Storage Tanks recognized as RECs above.
- In-ground Hydraulic Lift—the hydraulic lift in the maintenance garage is a REC as the lift uses petroleum hydraulic oils is below ground piping. The potential exists for the piping and the lift to have a release of hydraulic fluids.
- Barge Dock – the barge dock is an REC due to the past history of bulk product transfer and potential spills near surface water and sediment receptors.
- Septic System—the septic system is a REC. The functionality of the system and the potential for system to receive non-sanitary wastewater is unknown.
- MCHM Release—the release of MCHM into the soils, groundwater, and surface water makes it a REC. The extent of the release into the environment has been investigated.

Controlled Recognized Environmental Conditions (CRECs)

The existing Land Use Covenant (December 2004) is the current CREC at the Site. The previous owner, Pennzoil-Quaker, and the WVDEP entered into a Land Use Covenant on the property. The covenant restricts groundwater usage and soil excavation at the property.

Historical Recognized Environmental Conditions (HRECs)

One HREC was identified during the Phase I ESA. The identified HREC is listed below:

- Former Underground Storage Tanks—the Site had 2 former underground storage tanks which were removed. The location of the former Underground Storage Tanks is unknown.

De Minimis Conditions

Staining observed on the asphalt parking and driveways related to vehicular traffic and parking are considered as *de minimis* conditions.

Findings

Information gathered from historical references, document reviews, and the Site visit indicate that the facility has environmental issues related to past and current (until the time of the January 2014 MCHM release) operations. The facility has had investigations related to petroleum releases, and has undergone monitoring to identify the extent of the impacts. The Site ASTs have been demolished and the Site is currently undergoing investigation and remediation related to the January 2014 MCHM release.

Observations

During the Site visit, ARCADIS observed the Site undergoing closure, demolition, site maintenance, and environmental investigation. The potential for an additional release of materials into the environment is minimal.

Conclusions

The information gathered from the Site visit, document review, interviews, and working knowledge of the Site revealed evidence of historic and current environmental conditions in connection with the Site.

Data Gaps

One data gap as defined in ASTM E 1527-13 was identified in this assessment. No access to the fire pump house was available as the building was locked.



1. Introduction

ARCADIS U.S., Inc. (ARCADIS) was retained by Freedom Industries, Inc. to conduct a Phase I Environmental Site Assessment (ESA) of the Etowah River Terminal facility located at 1015 Barlow Drive, Charleston, West Virginia 25311 (Site).

1.1 Purpose

ARCADIS understands that the purpose for conducting this Phase I ESA is to assess and document the current status of environmental conditions at the Site. The Phase I Site Assessment will be used as part of the Site information for entering into the VRP.

1.2 Detailed Scope of Services

As directed by Freedom Industries, the Phase I ESA was conducted in general accordance with the ASTM International (ASTM) E 1527-13 Standard Practice for Site Assessments: Phase I Environmental Site Assessment Process. The goal of the Phase I ESA is to identify recognized environmental conditions (RECs), controlled recognized environmental conditions (CRECs), and historical recognized environmental conditions (HRECs) associated with the property in conformance with ASTM E 1527-13.

A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment. *De minimis* conditions are not RECs.

A CREC is defined as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)

An HREC is defined as a past release of any hazardous substances or petroleum products that has occurred in connection with the *property* and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the *property* to any required



controls (for example, *property use restrictions, activity and use limitations, institutional controls, or engineering controls*).

The ASTM practice requires environmental professionals to identify data gaps following reasonable inquiry of the Site and Freedom Industries personnel and ARCADIS' search for "reasonably ascertainable" resources. ASTM E 1527-13 defines a data gap as "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information."

ARCADIS' scope of work included:

- on-site inspection of the Site to identify environmental conditions issues as defined above,
- review of available environmental documents for the Site, including previous site assessments and investigations,
- search for environmental liens on the Site,
- interviews with persons represented to be familiar with the operation and history of the Site,
- review of property history through interviews and aerial photographs, city directories, ownership records, and historical mapping (as available),
- observation of adjacent properties and the local area to evaluate the potential for adverse environmental impact to the Site, and
- contracting of Environmental Data Resources, Inc. (EDR) to identify sites of concern as required in the regulatory records review section of the ASTM Standard for a Phase I ESA.

The Phase I ESA did not include the collection or analysis of soil, air, water, groundwater, or other samples, nor did it include a title search. Existing soil, groundwater data has been reviewed as part of the Phase I ESA.

Photographs of the Site and surrounding areas were taken to document current conditions and are included in **Appendix A**.



1.3 Significant Assumptions

ARCADIS has assumed that the information sources used for this investigation provided accurate information. Evaluations presented in this report are based exclusively on information provided by Freedom Industries and site personnel and observations made during the site visit. No invasive field activities were conducted and no laboratory analyses were performed as part of the Phase I ESA.

The boundaries of the Site were described in documents provided by Freedom Industries and site personnel and by interviews with site personnel. ARCADIS assumed this information was accurate.

1.4 Limitations and Exceptions

The services performed and any opinions expressed by ARCADIS in this report are based upon the limits of the investigation described herein. ARCADIS has relied upon the accuracy of documents, information, data, and other materials provided or made available by Freedom Industries and others. ARCADIS has not independently verified such information and assumes no liability for the accuracy or completeness of such information. ARCADIS makes no guarantee that site conditions do not exist, or will not exist in the future, that were undetected or that could lead to liability in connection with the Site. Similarly, past and present activities on the Site indicating the potential for the existence of environmental concerns may not have been discovered by ARCADIS. Such activities may include those that would indicate the potential for regulated hazardous substances at the Site. Likewise, site conditions or site activities that were outside the scope of the services described above, or changes to site conditions or regulatory requirements may lead to liabilities in connection with the Site that are not identified in this report. ARCADIS has reviewed the information obtained in connection with the performance of the services described above, in keeping with existing applicable environmental consulting standards and enforcement practices, but cannot predict what actions any given agency may take or what standards and practices may apply in the future.

Where access to portions of the Site or to structures on the Site was unavailable or limited, ARCADIS renders no opinion and accepts no responsibility for assessment of the condition of these portions of the Site, including specifically, but not limited to, the presence of hazardous substances or petroleum products at these locations. In addition, ARCADIS renders no opinion concerning the presence or absence of hazardous substances or petroleum products where direct observation of any part of the Site, or structure on the Site, is limited by physical obstructions.



The conclusions and observations are based upon limited data and professional opinions, and the assessment is performed on a particular date. Site conditions and activities may change after that date. Therefore, the risk of undiscovered environmental impairment of the Site cannot be ruled out. ARCADIS does not make any representations or warranties regarding the condition or value of the Site, regardless of the results of the assessment presented in this report.

ARCADIS makes no guarantees, certifications, warranties, or representations of any kind whatsoever, whether expressed or implied, regarding this Phase I ESA, the condition of the Site, or the liabilities associated with the Site.

1.5 Special Terms and Conditions

No special terms and conditions were imposed on this Phase I ESA.

1.6 Reliance

It is understood that this report will be prepared for the sole use of Freedom Industries, and the contents thereof may not be used or relied upon by any other person without the express written consent and authorization of ARCADIS. Use of this report by any other party shall be at such party's sole risk and liability.

1.7 Deviations

No significant deviations from the referenced ASTM Standard occurred. One data gap, as defined by ASTM, was identified during this Phase I ESA. The building housing the fire suppression pumps and wells was locked and not visually observed.

1.8 Additional Services

No additional services beyond what is outlined in ASTM E 1527-13 were conducted as part of the assessment. No asbestos or lead based paint surveys were completed as part of this Phase I ESA.



2. Site Location/Land Use

2.1 Site Location

The Site is located at 1015 Barlow Drive in Charleston, West Virginia 25311. The Site is located at Latitude 38° 22' 5.16" north and Longitude 81° 36' 23.40" west and is located at an elevation of approximately 617 feet above mean sea level. The general location of the Site and physiographic features of the surrounding area are shown on **Figure 1**, developed from the United States Geological Survey (USGS) topographic map for Charleston East, WV.

2.2 Site and Vicinity Characteristics

Properties surrounding the Site consist of residential, commercial, and vacant properties and the Elk River. Based on ARCADIS' observations, the closest residence is approximately 75 feet from the southern boundary of the Site.

2.3 Current Use of the Property

Currently, the Site no longer operates as a bulk storage and distribution facility. Since the release of 4-Methyl-1-cyclohexane methanol (MCHM) and propylene glycol phenyl ether (PPH) in January 2014, the Site has been undergoing cleanup and decommissioning. In August and September 2014, all of the aboveground storage tanks (ASTs) and associated piping and facilities were cleaned, demolished, and removed from the Site. Soils excavation has taken place to remove some of the MCHM impacted soils. The Site is currently inactive.

2.4 Description of Structures, Roads, and Other Improvements on the Site

The Site receives water, natural gas, and electricity service. The Site is located east of Charleston, West Virginia, on the eastern bank of the Elk River and has an operational barge dock.

Currently there are 2 buildings onsite which are used for office and storage. One building is the former and current office building, which houses offices, a small coal testing laboratory, and storage space. The building is composed of cinder block, and has a basement. The office building is located on the southern portion of the Site along with a corrugated metal building housing a garage type maintenance area and vehicular storage.



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There is a current fire suppression pump house, a former fire suppression pump house, a small electrical building, and a former “bag type” house onsite.

The property has an asphalt driveway and parking area, and an asphalt truck loading pull-through area.

2.5 Current Uses of the Adjoining Properties

Properties surrounding the Site mainly consist of residential, commercial and light-industrial properties and undeveloped land.



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The adjoining properties include:

- North: To the north the property is currently undeveloped. There are some former concrete slabs in the area indicating previous structures may have been present. Based on aerial photographs, the exact nature of the buildings north of the site cannot be determined.
- East: Across Barlow Drive from the site is Yeager Airport . One of the Airport runways is located upslope (approximately 150 feet in elevation). No buildings are located immediately upslope from the site.
- South: Residences and light commercial and industrial properties.
- West: The Elk River, a navigable river. Across the river to the west is a West Virginia Department of Highway Garage and Yard and a Concrete batch plant.



3. User-Provided Information

3.1 Environmental Liens

According to information provided by Freedom Industries, the managing Chief Restructuring Officer (CRO), and agency review, the Site is not encumbered by an environmental lien.

3.2 Activity and Use Limitations

According to information provided by WVDEP and agency review, the Site has a brownfield designation and has use limitations (VRP # 4506 in Kanawha County, WV). A Land Use Covenant (LUC) was entered into by Pennzoil-Quaker State and was recorded with the property deed in December 2004. The LUC is recorded with the Kanawha County Clerk's office restricting excavations below the water table at defined areas of the site, maintaining existing concrete pavement and foundations or replacing them if excavation is required, prohibition of extraction of groundwater for potable or non-potable use. A Certificate of Completion was issued by the WVDEP on December 7, 2004.

3.3 Specialized Knowledge

Mr. Mark Welch, CRO, completed the ASTM User Questionnaire. Mr. Welch has been associated with the Site since the release and bankruptcy. See **Appendix B** for a copy of the questionnaire. Other Freedom Industry employees were contacted. Questionnaires will be included in updates to the Phase I ESA if new information is received.

3.4 Valuation Reduction for Environmental Issues

Due to the land use covenant currently in-place and the recent release event, it is anticipated that the value of the property would be negatively affected. The Phase I ESA does not attempt to quantify any impact to the value of the property.

3.5 Commonly Known or Reasonably Ascertainable Information

Since the release at the Site in January 2014, WVDEP and other agencies have been posting relevant information on public websites. This information from the websites was reviewed and used as part of the Phase I ESA.



3.6 Obvious Contamination Presence or Likely Presence

In September 2003 Pennzoil-Quaker State entered the site into a Voluntary Remediation Agreement within the WV Voluntary Remediation and Redevelopment Program. Following delineation of the chemicals of concern, a risk assessment was conducted to evaluate the potential risk posed to human health and the environment through all potential exposure pathways. A Land Use Covenant was enacted to eliminate several of these pathways, thereby, indicating that the COCs remaining at the Site did not pose a risk after exposure pathways were eliminated. Gasoline, kerosene, diesel, diesel additive, hydraulic oil, bulk oil, calcium chloride and ethylene glycol have been stored in aboveground storage tanks at the Site over its operational history. According to the information submitted in the VRP Application, constituents of concern detected in soil are: benzene, methyl tertiary butyl ether (MTBE), total petroleum hydrocarbons (TPH) diesel range organics (DRO) and gasoline range organics (GRO), lead, 1-methylnaphthalene, 2-methylnaphthalene and naphthalene based on concentrations above the *de minimis* levels for migration to groundwater. Constituents of concern detected in groundwater are: benzene, MTBE, TPH (DRO, GRO and GRO), lead, 1-methylnaphthalene, 2-methylnaphthalene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene at concentrations above the *de minimis* levels for direct contact with groundwater.

The January 2014 release of MCHM and PPH into the soil, groundwater, and surface waters at the Site may lead to residual concentrations of MCHM and PPH within the soil, groundwater, and surface waters requiring additional remediation. Currently there are no established agency regulated clean-up levels for MCHM and PPH.

3.7 Owner, Property Manager, and Occupant Information

The current property owner is Freedom Industries. Since the Site is undergoing bankruptcy, a Chief Restructuring Officer (CRO) has been appointed. Mr. Mark Welch, of Morris Anderson, has been in the role of CRO since March 2014.

3.8 Reason for Performing Phase I ESA

The reason for performing the Phase I ESA was to evaluate current environmental conditions at the Site in conjunction with the January 2014 Tank 396 release of MCHM at the Site. Current plans for the Site call for the Site to enter into the VRP. By entering into the VRP, the Site can undergo clean-up under established rules.



4. Site History

4.1 General Information

ARCADIS obtained historical information from the following sources: Environmental Database Report (EDR), WVDEP, Kanawha County Health Department, Site Files, Personnel interviews, Site work, and historical information sources including historical topographic maps, historical aerial photographs, historical Sanborn[®] maps, and historical city directories. City of Charleston Fire Department and City of Charleston Building Department, the United States Environmental Protection Agency, Region 3, (EPA-R3-2015-002374) have been contacted but no additional information has been received to date.

The Pre- 1938 Land use was agricultural. In 1930 was the first development for bulk petroleum (Elk Refining Company (Elk) purchased 1.56-acres from Edith Bowers Bailly and Homer Bailey). In 1941, 1947, and 1948, Elk purchased additional property to expand the terminal. In 1950, warehouse/office and garage storage buildings were constructed. Elk merged with Pennzoil United, Inc. (now Pennzoil-Quaker State (PQS)) in 1970 and operated the terminal under that ownership.

In 2001, PQS sold the property to Etowah River Terminal, LLC. The use of the Site changed from bulk petroleum storage to storage and distribution of freeze conditioning agents including ethylene glycol and calcium chloride solutions. In addition, coal cleaning materials, including MCHM were stored and distributed from the Site.

4.2 Historical Information Provided During Interview

No persons familiar with the Site were available for interview during the actual Site visit. Information gathered from Site interviews occurred during remediation, decommissioning, and site investigation activities at the Site.

4.3 Previous Environmental Reports

Multiple environmental reports are provided in **Appendix C**. A Phase I Report was completed by Thrasher Group, Inc., November 2013, 2 months prior to the January 2014 release and prior to the potential sale of the Site. A Copy of the Thrasher Group Phase I ESA is also provided in **Appendix C**.



4.4 Evaluation of Historical Information Sources

4.4.1 Sanborn® Maps

Sanborn® Fire Insurance Maps assist in the identification of historical land use and commonly indicate the existence and location of aboveground and underground storage tanks, structures, improvements and facility operations. Sanborn® maps were ordered from EDR. Sanborn® map listed the Site as “No Coverage.” Copy of the Sanborn® Map listing is provided in **Appendix D**.

4.4.2 Aerial Photographs

Aerial photographs assist in the identification of site features and outdoor activities of potential environmental concern. Aerial photographs were obtained from EDR. Aerial photographs for the years 1955, 1960, 1971, 1977, 1984, 1990, 1996, 2007, 2009, and 2011 were reviewed by ARCADIS and are included in **Appendix D**. The following table summarizes ARCADIS' interpretation of features observed on the aerial photographs.

Date(s)	Property Interpretation	Surrounding Area Interpretation
1955 Scale: 1" = 750'	The aerial is mostly washed out and hard to make out details. The site is present but details are not distinguishable. Buildings and tanks are visible.	The aerial is mostly washed out and hard to make out details. The Charleston airport is visible above the site and the Elk River and highways are present. Most features are present but not distinguishable.
1960 Scale: 1" = 500'	Aerial shows the site. Details are hard to make out. Buildings and ASTs are present; a barge appears to be docked at the site.	Adjacent property to the south indicates individual houses and roadways. Two houses are visible to the northeast of the site. West of the Elk River, the areas are being developed.
1971 Scale: 1" = 500'	Aerial shows the site. ASTs are present; a barge appears to be docked at the site. An addition to the building on the south end of the site appears to be present. The site boundaries appear to extend to the north further than	Adjacent property to the south indicates individual houses and roadways. A larger building is present south of the site. Two houses are visible to the northeast of the site. Clearing at the top of the hill to the east, associated with the airport runway



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Date(s)	Property Interpretation	Surrounding Area Interpretation
	currently defined.	is taking place. West of the Elk River, areas which were developed in 1960 appear to be vacant.
1977 Scale: 1" = 1000'	Aerial shows the site. Details are hard to make out due to the scale of the aerial. ASTs are present; a barge appears to be docked on the west bank of the Elk River.	Adjacent property to the south indicates individual houses and roadways. A larger building is present south of the site. Two houses are visible to the northeast of the site. Clearing at the top of the hill to the east, associated with the airport runway has taken place. West of the Elk River, Interstate I-77 has been completed.
1984 Scale: 1" = 1000'	Aerial shows the site. Details are hard to make out due to the scale of the aerial. ASTs are present.	Adjacent property to the south indicates individual houses and roadways. More development appears to have taken place. West of the Elk River, Interstate I-77 has been completed. Development on the west bank of the Elk River across from the site appears to be ongoing.
1990 Scale: 1" = 500'	Aerial shows the site. ASTs are present; barge dock is present. Individual ASTs are visible and different size ASTs are present. Area north of the ASTs is now overgrown; building present in the 1971 aerial is no longer present.	Adjacent property to the south indicates individual houses and roadways. Interstate I-77 has been completed. Development on the west bank of the Elk River across from the site appears to be ongoing. A defined clearing at the top of the slope by the airport runways is present. Probable utility corridor.
1996 Scale: 1" = 500'	Aerial shows the site. Details are hard to make out due to the aerial is not clear. ASTs are present; a barge appears to be docked on the Elk River at the site.	Adjacent property to the south indicates individual houses and roadways. A larger building is present south of the site. Additional details are hard to make out due to the aerial is not clear.



Date(s)	Property Interpretation	Surrounding Area Interpretation
2007		
Scale: 1" = 500'	Aerial shows the site. Aerial is very clear. ASTs are present, and individual ASTs are present. Loading racks for trucks are visible.	Adjacent property to the south indicates individual houses and roadways. Development on the west bank of the Elk River across from the site appears to be ongoing. Larger buildings are present. A defined clearing at the top of the slope by the airport runways is present. Probable utility corridor. Additional clearing has occurred for the lengthening of the runway.
2009		
Scale: 1" = 500'	Aerial shows the site. Aerial is very clear. ASTs are present, and individual ASTs are present. Loading racks for trucks are visible. Area is cleared just north of the site from Barlow Drive to the river.	Adjacent property to the south indicates individual houses and roadways.
2011		
Scale: 1" = 500'	No significant changes from the 2009 aerial.	No significant changes from the 2009 aerial.

4.4.3 Historical Topographic Maps

Topographic maps assist in the identification of regional land and development features. Topographic maps were obtained from EDR. Topographic maps for the Site and adjoining Quad areas for the years 1899, 1909, 1936, 1957, 1971, 1976, and 1996 were provided by EDR and reviewed by ARCADIS. The topographic maps are included in **Appendix D**. The following table summarizes ARCADIS' interpretation of features observed on the topographic maps.

Map Year and Information	ARCADIS Interpretation
1899 Quadrangle: Charleston Series : 30 Scale: 1"=125,000	The site is shown on the Quad. No development of the Site is noted. The Charleston Clendenin and Sutton Railroad line is shown on the edge of the Site.



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Map Year and Information	ARCADIS Interpretation
1909 Quadrangle: Charleston Series : 15 Scale: 1"=625,000	The site is shown on the Quad. No development of the site is noted. The Charleston Clendenin and Sutton Railroad line has changed names to the Coal and Coke Railroad and is shown on the edge of the Site.
1936 Quadrangle: Charleston Series : 15 Scale: 1"=625,000	The site is shown on the Quad. Buildings are indicated on the site. The Coal and Coke Railroad is renamed as the Baltimore and Ohio Railroad and is shown on the edge of the Site. The City of Charleston is expanding and more development is shown in the area.
1957 Quadrangle: Charleston East Series : 7.5 Scale: 1"=24,000	The site is shown on the Quad. Buildings and ASTs are indicated on the site. The Baltimore and Ohio Railroad is shown on the edge of the site. A gas pipeline is shown intersecting the Site. The Yeager Airport is present to the east of the Site, and located upslope. Residential development is shown to the south of the Site. The City of Charleston is expanding and more development is shown in the area.
1971 Quadrangle: Charleston East Series : 7.5 Scale: 1"=24,000	Same as Above. The airport runway has expanded in the direction of the Site. Additional tank is shown on the Site. Additional development is present around the area.
1976 Quadrangle: Charleston East Series : 7.5 Scale: 1"=24,000	Same as Above. The airport runway has been expanded in the direction of the Site. Additional tank is shown on the Site. Interstate I-77 is present west of the Elk River. Additional development is present around the area.
1996 Quadrangle: Charleston East Series : 7.5 Scale: 1"=24,000	Same as Above. The airport runway has expanded in the direction of the Site. Additional tank is shown on the Site. Additional development is present around the area.
1958 Adjoining Quadrangle: Big Chimney Series : 7.5 Scale: 1"=24,000	The Baltimore and Ohio Railroad is shown. A gas pipeline is shown trending towards the Site. The Yeager Airport is present to the east of the Site, upslope. Residential development is shown to the north and west of the Site.
1971 Adjoining Quadrangle: Big Chimney Series : 7.5	The Baltimore and Ohio Railroad is shown. A gas pipeline is shown trending towards the Site. The Yeager Airport is present to the east of the Site, upslope. Residential development is shown to the north and west



Map Year and Information	ARCADIS Interpretation
Scale: 1"=24,000	of the Site. A large building is present north of the Site along the Elk River.
1976 Adjoining Quadrangle: Big Chimney Series : 7.5 Scale: 1"=24,000	The Baltimore and Ohio Railroad is shown. A gas pipeline is shown trending towards the Site. The Yeager Airport is present to the east of the Site, upslope. Residential development is shown to the north and west of the Site. A large building is present north of the Site along the Elk River. Construction of I-77 west of the Site is present.

4.4.4 City Directory Search

ARCADIS contracted EDR to perform a City Directory search of the Site and the surrounding addresses. EDR reviewed local sources including Cole Information Services and Polk's City Directory. Listings for the Site and surrounding properties during the period 2013 to 1987 are summarized below. The EDR City Directory Search Report is included in **Appendix D**.

Date(s)	Property Listings	Surrounding Area Listings
2013	Etowah River Terminal Fisher and Gilkeson Freedom Industries	1007—Deborah Greene 1009—John Harrah 1146—Ronald Miller 1148—Donald Spencer
2008	Etowah River Terminal Roy A. Gilkeson Freedom Industries, Inc.	1007—J Schott 1009—M Harrah 1048—Earl Kendrick 1143—Richard Harris
2003	Roy Gilkeson	1007—Thomas Schott and Deborah Greene 1009—John Harrah 1143—Richard Harris 1145—R Chewing
1999	Pennzoil Products Company Division Office	1007—Deborah Greene 1009—John Harrah 1048—James Bowers 1138—John Estep



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Date(s)	Property Listings	Surrounding Area Listings
1995	Pennzoil Distributor Pennzoil Products	1007—Deborah Greene and Thomas Schott 1009—John Harrah 1048—James Bowers 1138—Occupant unknown
1992	Pennzoil Co Pennzoil Prods Whse	1007—Deborah Greene and Thomas Schott 1009—John Harrah 1048—James Bowers 1143—Richard Harris
1987	Pennzoil Products Co	1007—Deborah Greca 1009—John Harrah 1048—Lorene Bowers 1050—Vacant

4.4.5 Tax Map Report

No tax map reports were reviewed as part of the Phase I ESA.

4.4.6 Chain of Title

No chain-of-Title information was requested or reviewed as part of the Phase I investigation.



5. Regulatory Agency Research

As part of this assessment, ARCADIS reviewed regulatory databases and available agency files and records for the Site. Information from these sources is discussed in the following sections.

5.1 Regulatory Database Research

An environmental database report prepared by EDR was reviewed for local, state, and federal listings for properties within the site area. EDR's report includes regulatory databases reviewed by EDR for cases pertaining to leaking aboveground storage tanks (USTs) and aboveground storage tanks (ASTs), hazardous waste sites, and abandoned sites within ASTM-specified radii (**Table 2**). EDR also reviewed selected databases generated by the United States Environmental Protection Agency (USEPA). Explanations of the regulatory agency databases reviewed and acronyms used by EDR are presented in EDR's report in **Appendix E**.



Regulatory Agency Databases/Lists Reviewed

Search Radius	Agency	Database	Type of Records in Database
1.0 mile	USEPA	NPL and Proposed NPL	Sites designated for Superfund cleanup by the USEPA
	USEPA	CORRACTS	RCRA facilities undergoing “corrective actions”
	USEPA	Consent	
	USEPA	RODS	Record of Decision mandates a permanent remedy at an NPL Site
	DOD	DOD	Department of defense or federal lands greater than 640 acres
	DOD	FUDS	Formerly used Defense Site
0.5 mile	USEPA	CERCLIS	Sites under review by the USEPA
	USEPA	TSD	Facilities that treat, store, and/or dispose of hazardous waste
	RWQCB	LUST	Sites with LUSTs
	IWMB	SWLF/SWAT	Sites permitted as solid waste landfills, incinerators or transfer stations
	SWRCB	WMUDS/SWAT	Tracking and inventory of waste management units
	USEPA	CERCLIS-NFRAP	CERCLIS sites with no further remedial actions planned.
	USEPA	RCRA-TSDF	RCRA treatment, storage, disposal
	USEPA	US Engineering and Institutional Controls	Sites with Engineering and / or Institutional Controls in-place
	WVDEP	SWF/LF	List of MSW Landfills / Transfer Stations
	WVDEP	LUST	Leaking Underground Storage Tank Incidents Reports
WVDEP	Brownfields	Listing of Brownfield Sites	



Search Radius	Agency	Database	Type of Records in Database
Site or Adjacent Properties	USEPA	RCRA Generator	Sites that generate large or small quantities of hazardous waste
	USEPA and OES	ERNS	Sites with reported accidental releases of oil and hazardous substances
	SWRCB	UST	Sites with registered USTs
	USEPA	SPILLS	Listing of spills and releases reported to the Office of Emergency Services
	WVDEP	Dry Cleaners	Listing of drycleaners which use perchloroethylene
	USEPA	Coal Ash	Listing of Coal Ash landfill Site Locations

Notes:

AST=aboveground storage tank
 CERCLIS=Comprehensive Environmental Response, Compensation and Liability Information System
 DTSC=Department of Toxic Substances Control
 IWMB=Integrated Waste Management Board
 NFRAP=No Further Remedial Action Planned
 OES=Office of Emergency Services
 RWQCB=Regional Water Quality Control Board
 SWIS=Solid Waste Information System
 SWRCB=State Water Resources Control Board
 UST=underground storage tank

BEP=Bond Expenditure Plan
 CORRACTS=Corrective Action Report
 DPH=Department of Public Health
 ERNS= Emergency Response Notification System
 LUST=Leaking Underground Storage Tank
 NPL=National Priorities List
 RCRA=Resource Conservation and Recovery Act
 SWAT=Solid Waste Assessment Test
 SWLF=Solid Waste Landfills
 USEPA=U.S. Environmental Protection Agency
 WMUDS=Waste Management Unit Database

5.1.1 Site

According to EDR report, the Site is listed as either Freedom Industries or Etowah River Terminal on the RCRA-SQG, ERNS, LUST, UST, INSTITUTIONAL CONTROL, VCP, FINDS, SPILLS, RCRA NonGen / NLR, NPDES, US AIRS, and RGA LUST databases. The Site was a generator of hazardous and regulated waste. The RCRA-SQG database record is dated September 2011 and indicates no violations were found. The FINDS database is a pointer that the facility is listed on other databases, in this case RCRA. The UST databases indicate that 2 USTs were formerly present on the site and contained gasoline and diesel fuel. According to the EDR report, the tanks were closed in 1988 and have been removed from the ground. The past use of petroleum products on site indicates a potential environmental concern for the Site. The EDR reports lists that the facility had several violations noted when it was owned and operated under Pennzoil-Quaker State. The EDR report states that violations have been corrected.



The EDR report also identified the Site is listed on the Institutional Controls and Voluntary Controls Program databases due to the historic use and release of petroleum products. A LUC was entered into by Pennzoil-Quaker State and was recorded with the property deed in December 2004.

5.1.2 Off-Site Properties

The EDR report identified several off-site properties within the ASTM search radius. However, based on their inclusion for tracking purposes only, case closed status, distance from the Site, and/or hydraulically cross- to downgradient location with respect to groundwater flow, none of the listed facilities are anticipated to represent an environmental concern for the Site.

5.1.3 Orphan Properties

EDR identified two (2) regulated facilities that could not be located because of insufficient address information. These facilities are referred to by EDR as “orphan” facilities. Based on our knowledge of the site vicinity and our observations during the Site reconnaissance, these listed properties are not located in proximity to the Site, and are therefore unlikely to represent an environmental concern to the Site. Information regarding these regulated facilities can be found in **Appendix E**— EDR Radius Map™ Report.

5.2 Agency Research

Files and records available at the agencies listed in the following table were reviewed for information on the Site.

Local Agency Files

Source	Date	Information Obtained
West Virginia Dept. of Environmental Protection	12/2014	Information relating to historic and current permits, inspections, and information related to the release in January 2014.
Kanawha County Health Dept.	12/2014	A review of the County Health Department website. Documents are related to the January 2014 release



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Source	Date	Information Obtained
City of Charleston Building Department	12/2014	Department contacted, no response as of date.
US EPA FOIA Request	12/2014	Documents reviewed from USEPA FOIA Request posted by A. Blankenship. Additional FOIA request was submitted 12/2014
City of Charleston Fire Department	12/2014	Department contacted, no response as of date.



6. Environmental Setting

6.1 Topography

According to the EDR Radius Map Report, the Site is located approximately 617 feet above mean sea level. The EDR report indicates that the topography in the area of the Site has a general topographic gradient to the north. The Site is located just north of the City of Charleston, WV and is situated along the bank of the Elk River.

6.2 Geology

Information regarding the regional geology in the site vicinity was obtained from the Geotek[®] Report to the EDR Radius Map Report. EDR regional data indicate that the surface soil texture in the area of the Site is soils that are unconsolidated, sands, gravels, clayey silts, poorly drained to well drained, comprised of a soil component named Udorthents, smoothed. Underlying the surface soils are the bedrock deposits classified as Paleozoic Era, Pennsylvanian System. Most of the bedrock is stratified sequence of limestones, shale, and sandstones.

6.3 Hydrogeology

Information regarding the regional hydrogeology of the site vicinity was obtained from the Geotek[®] Addendum to the EDR Radius Map Report. No AQUIFLOW[®] points were located within 1.0 mile radius of the Site. Localized groundwater flow direction is not necessarily dependent upon topography and may vary based on several factors. Groundwater monitoring wells installed at the Site indicate that a generalized groundwater flow in the area is towards the Elk River, to the West-northwest. Based on the localized geology identified during the Site Investigation, it appears that there is an upper water bearing zone and a lower water bearing zone, each within the unconsolidated materials at the Site.

6.4 Flood Zones

According to the EDR Radius Map Report, Federal Emergency Management Agency (FEMA) flood plain panel data were available for the Site. A federal 100-year flood zone is depicted on the lower portion of the Site. The developed, upslope portion of the property is located outside of the 100-year and 500 year flood plains due to the abrupt steep slope. The nearest surface body of water is located adjacent to the western property boundary of



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the Site. The Elk River is a navigable river which is used for recreational, commercial, and transportation purposes.

6.5 Wetlands

The National Wetlands Inventory lists the Elk River as a Riverine. The Riverine System includes all wetlands and deepwater habitats contained in natural or artificial channels periodically or continuously containing flowing water or which forms a connecting link between the two bodies of standing water. Upland islands or Palustrine wetlands may occur in the channel, but they are not part of the Riverine.



7. Site Reconnaissance

On Monday December 9, 2014, Mr. Todd Aebie, a representative of ARCADIS, performed a reconnaissance-level assessment of the Site to observe general site conditions and indications of the possible release(s) of chemicals to the subsurface. A walkover and drive-over site reconnaissance was conducted to identify visible evidence of RECs. The ARCADIS representative was not accompanied during the site inspection. Representative photographs taken during the site reconnaissance are included in **Appendix A**.

7.1 Methodology and Limiting Conditions

Mr. Aebie was granted full access to the Site. The methodology for the site visit included walking the entire site to observe the current site locations. The surrounding and adjacent properties were observed via driving to assess current site conditions. The Site was fully observed. The entire Site was available for inspection except for the fire pump house, which was locked. Roofs of the buildings were not physically climbed upon, but were observed from other areas of the Site, where possible.

7.2 General Site Conditions

7.2.1 Site Observations

At the time of the site reconnaissance on December 9, 2014, the approximate 4.5-acre, rectangular shaped Site consisted mainly of an existing office building and lab, garage and maintenance shop, and area where former Aboveground Storage Tanks (ASTs), piping and associated appurtenances were located and have recently been demolished.

The Site can be divided into two areas; 1) upper area where the buildings, roadways, and former ASTs were located; 2) lower area downslope, adjacent to the Elk River. A barge dock is located on the bank of the Elk River, where bulk product was unloaded and pumped into the ASTs.

The office building and garage/maintenance shop are still in operational condition. Asphalt roads and parking areas are present. The former ASTs were located in secondary containment consisting of masonry block wall. The ASTs were demolished in August and September 2014 along with the eastern half of the masonry block wall. A demolition plan was submitted to the WVDEP for concurrence, prior to the demolition of the ASTs. The area contains soils and fine sands, where the tanks used to be located. Double-walled



frac tanks are located on the Site for the collection and temporary storage of storm water collected at the Site.

The Site had a flare which was used when the facility operated as a petroleum storage facility. It is surmised that the flare was used to "flare off" fumes and gases as the petroleum products vaporized. The flare was reportedly not used during the time in which Freedom Industries operated the facility. The flare was demolished as part of the demolition of the ASTs.

The facility has a general storm water NPDES permit to discharge storm water. An application for an individual NPDES permit was submitted to WVDEP in September 2014, pursuant to new West Virginia AST laws, and is awaiting approval. Storm water on the southern portion of the Site is discharged through two outfalls. The remainder of the storm water, north of the office building, is being collected in the secondary containment area and in a collection trench in the lower portion of the Site. The storm water is pumped into onsite frac tanks (5 tanks) where it is collected, filtered for fines, and trucked for disposal. Storm water has been taken for disposal at approved waste disposal facilities. Currently, the Charleston Sanitary Board (CSB) accepts a majority of the collected storm water. A diversion trench was installed off-site along the northeast portion of the Site to collect and divert off-site surficial and shallow waters.

The Site has personnel present 10 hours a day, 5 days a week, and on standby for rain events. The majority of the Site is secured by a chain link fence.

Since the occurrence of the MCHM release, the Site has been undergoing bankruptcy, closure, and environmental investigation. Groundwater monitoring wells were initially installed after the release to monitor for the presence of the released constituents. Subsequently, an additional soils and groundwater investigation was completed to define the extent of the impacted soils from the January 2014 release and to evaluate the groundwater across the Site. The soils investigation defined the horizontal and vertical impacts to the soil from the MCHM release. The soils investigation was completed under concurrence of the WVDEP.

The MCHM impacted soils have been excavated, removed, and disposed of as non-hazardous waste at an approved waste facility. Approximately 167 cubic yards of impacted soil has been removed. Confirmatory samples are collected when impacted soils are removed. The soils have been removed to lessen the potential for additional impacts to soil, groundwater and surface water from occurring.



All of the work at the Site related to the MCHM release has been completed under the oversight of representatives of the WVDEP.

7.2.2 Hazardous Substances and Petroleum Products in Connection with Identified Uses

ARCADIS did not observe the presence of hazardous substances or bulk petroleum products on site. Several containers labeled as containing oil or petroleum products were noted in the maintenance garage. All other hazardous substances appear to have been removed from the Site.

7.2.3 Storage Tanks--ASTs

ARCADIS observed one empty diesel fuel storage tank (approximately 300 gallon capacity) in the maintenance area of the garage.

The history of the facility has been as storage of petroleum and other bulk liquids. The ASTs, when the property was owned by Pennzoil-Quaker State, contained petroleum products including gasoline, diesel fuel.

The facility had 15 operational ASTs at the time of the release. All ASTs have been removed as part of the closure of the facility. A list of the ASTs onsite at the time of the release, and their contents, is provided in **Appendix F**.

7.2.4 Storage Tanks--USTs

No evidence of current USTs, such as dispensers, pipes, or vent lines, was observed on site during the Site visit.

7.2.5 Odors

No odors that would indicate an environmental concern were noted on Site during the time of the Site visit.

7.2.6 Pools of Liquid

The Site was observed shortly after a rainfall event and small puddles of standing water were observed. The Site has several sumps to collect shallow surficial waters. The sumps collect surface and shallow groundwater which is then pumped into frac tanks onsite. A collection trench, located downslope of the former Tank 396 location, was



installed to collect storm water. The collection trench was installed to collect any surficial storm water and shallow groundwater, which was potentially impacted with MCHM, prior to entering the Elk River. The water from the collection trench is pumped to the frac tanks for disposal.

7.2.7 Drums

Several 55-gallon drums were observed on site. Several of the drums contained coal briquettes. The briquettes were used in the coal briquette laboratory. One drum currently contains approximately 25 gallons of an unknown liquid. There are two 55-gallon drums which are located within the storage area in the office building. The drums are locked and contain MCHM from the release, which is being conserved for future possible testing.

Drums containing soil cuttings from the soil investigation are located outside near the garage and maintenance garage. The drums are labeled as non-hazardous, possibly containing MCHM impacted soil cuttings. The drums will be removed from the Site and disposed of shortly,

At least 2 partially buried drums, approximately 35 gallon in size, were observed. The drums were observed on the southwestern slope. The partially buried drums are found in an erosional feature. Along with the drums, there are several pieces of pipe and other pieces of steel. The drums are in very poor shape, very rusted. Holes were observed in the drums. It does not appear that the drums contain any materials. The location of the partially buried drums along with current Site features can be found on **Figure 2**.

7.2.8 Hazardous Substances and Petroleum Product Containers (Not Necessarily in Connection with Identified Uses)

No containers of hazardous substances or petroleum products were observed on site, unless previously described. There are several small containers of oils, some greases, etc. still present within the garage and maintenance building.

7.2.9 Unidentified Substance Containers

There are several open containers with unidentified contents which may be suspect of containing hazardous substances or petroleum products were identified during this assessment. The unidentified containers were all observed to be in good condition. The containers were located in the basement of the office building and in the maintenance building garage. The containers will be gathered, profiled, and disposed of properly.



7.2.10 PCBs

No electrical or hydraulic equipment known to contain polychlorinated biphenyls (PCBs) or likely to contain PCBs was identified during this assessment. Several pole-mounted transformers were observed on the Site; however, any concerns with the transformers would be the responsibility of the local utility (American Electric Power). One transformer was located within the office building. The transformer is labeled as a “dry” transformer, thus not containing any PCBs.

The facility did have an electrical substation located by the northern driveway to the Site. The substation contained transformers which were removed prior to the demolition of the ASTs. There is potential for PCBs to have leached from transformers in the substation, and PCBs will be considered as a COPC.

7.2.11 Pits, Ponds, or Lagoons

During the site visit, the ARCADIS representative, looked for pits, ponds, or lagoons on the Site. Todd Aebie, ARCADIS' representative, also looked for pits, ponds, and lagoons on adjoining properties to the extent that such features could be visually and/or physically observed from the Site or visually observed driving around the adjacent properties, or identified in informational reviews. No such features were identified on or near the Site, unless previously mentioned.

The pit indicated in Photo #10 of the Photo Log in **Appendix A** is associated with the in-ground hydraulic lift discussed in **Section 9** below

7.2.12 Stained Soil or Pavement

During the site visit, the ARCADIS' representative did not observe areas of stained soil or pavement. Portions of the access driveway did have small *de minimis* stains, associated with on-site vehicular traffic.

7.2.13 Stressed Vegetation

During the site visit, the ARCADIS' representative looked for areas of stressed vegetation (from other than insufficient water). No areas of stressed vegetation were observed during this assessment. Several areas were void of vegetation due to the environmental investigation and excavation activities.



7.2.14 Solid Waste

During the site visit, the ARCADIS' representative looked for areas that were apparently filled or graded by non-natural causes (or filled with material of unknown origin) that suggest the presence of trash construction debris, demolition debris, or other solid waste disposal, or mounds or depressions suggesting trash or other solid waste disposal. Along the northwest portion of the Site, an area of fill is present. The fill appears to be primarily composed of a type of cement/concrete block/brick. The fill materials appear to have filled in a portion of a ravine to provide a flat surface for the Site.

Solid waste generated at the Site is placed in a dumpster and currently hauled away by Waste Management, Charleston, WV.

7.2.15 Wastewater

During the site visit, the ARCADIS' representative looked for wastewater or other liquids (including storm water) or discharges into a drain, ditch, underground injection system, or stream on or adjacent to the Site. No process wastewater is discharged from the site.

7.2.16 Wells

During the site visit, Todd Aebie, ARCADIS' representative looked for wells, including dry wells, irrigation wells, injection wells, monitoring wells, abandoned wells, or other wells. Monitoring wells have been and are currently present on the Site. Monitoring wells that were installed as part of prior investigations have been abandoned. These wells were used as part of the site investigation and monitoring for the inclusion into the VRP.

Additional monitoring wells have been installed as a result of the January 2014 MCHM release. Initially 6 wells were installed after the release by CEC, to assess any immediate impacts to the groundwater. During the site investigation completed in September and October 2014, additional monitoring wells were installed to define groundwater at the Site. Currently, there are 17 groundwater monitoring wells onsite. The monitoring wells are sampled monthly. The parameters being sampled only relate to the substances present in the ASTs at the time of the January 2014 release. Future sampling will include COPCs associated with petroleum compounds in addition to those substances present in the ASTs at the time of the January 2014 release.



7.2.17 Septic Systems

During the site visit, ARCADIS' representative looked for indications of on-site septic systems or cesspools. According to Site personnel, the Site is serviced via a septic system. During the Phase I ESA site walk, the covers to the septic system were not observed.

7.2.18 Heating/Cooling

The office building is heated and cooled. Heat is by natural gas (provided by Mountaineer Gas) and cooling is via electric (provided by American Electric Power). The garage and maintenance building is also heated.

7.2.19 Stains or Corrosion

During the site visit, ARCADIS' representative looked for stained areas or corrosion indicating possible environmental issues. No areas of staining or corrosion were observed during this assessment, not previously described.

7.2.20 Drains and Sumps

Floor drains are present in the office building and within the garage and maintenance building. It is unknown as to where the floor drains discharge. The discharges for floor drains in site buildings will be determined during investigation activities.

There is an oil/water separator (OWS) onsite. The OWS received spills from the former loading rack. Trench drains beneath the former loading rack drained to the oil water separator. The OWS is reported to have a 9,000 gallon capacity. The OWS previously discharged through a permitted outfall to the Elk River. After the January 2014 release, the OWS discharge line was plugged to prevent any potential release of MCMH to the Elk River. Currently, any water which is collected in the former loading rack area flows to the OWS and is pumped into the frac tanks for temporary storage and disposal.

7.2.21 Radon

The USEPA considers radon to be unhealthy at levels greater than 4.0 pCi/L of air. Sixty-six (66) locations were tested within the Site's zip code 25311. The majority of the sites tested (77%) were found to be below the 4pCi/L level, and the remainder of the sites (23%)



were found to be between 4-10pCi/L. Therefore, the potential for elevated radon gas levels at the Site appears to be low.

7.2.22 Asbestos

An asbestos survey was not completed as part of the Phase I ESA. Due to the age of the building (constructed in the 1950's) on the Site, the potential for asbestos does exist.

During the demolition of the ASTs, piping and appurtenances, pipe valves were found to contain asbestos materials. The pipe valves were removed, abated, and disposed of as asbestos containing materials prior to the demolition of the ASTs.

The flare at the facility was tested for the presence of asbestos containing materials. Any potential asbestos containing materials were removed, abated, and disposed of as asbestos containing materials prior to the demolition of the flare.

Based on the potential for asbestos in site buildings, an asbestos survey will be completed prior to demolition of any existing buildings.

7.2.23 Lead Based Paint

A lead based paint survey was not completed as part of the Phase I ESA. Due to the age of the building on the Site, the potential for lead based paint does exist.

During the demolition of the ASTs, piping and appurtenances, the tanks were sampled for the leaded paint. Lead based paint was found on the ASTs. Caution was taken during the demolition to minimize the potential for exposure to the lead based paint.

Lead will be considered as a COPC based on the presence of lead-based paint at the Site.



8. Interviews

8.1 Interview with Site Contacts

The ARCADIS' representative interviewed Mr. Mark Welch, CRO, as part of the Phase I ESA. In addition, the ARCADIS representative relied on current Site knowledge gathered during the past 5 months of work at the Site. Information was gathered from former Freedom Industries employees, onsite contractors, and agency personnel in discussions while on the Site.

8.2 Interview with Local Government Officials

ARCADIS' representative contacted local government officials as part of our assessment. The information obtained from the government agencies through file review and telephone interviews is presented in Section 5.2.

9. Findings

ARCADIS has performed the Phase I Environmental Site Assessment in general accordance with the ASTM E 1527-13 Standard Practice for Site Assessments: Phase I Environmental Site Assessment Process. Limitations or deviations from this practice are described in Section 1.4 of this report. The findings identified by ARCADIS are summarized below and discussed in greater detail in the body of the report.

9.1 Recognized Environmental Conditions (RECs)

- The Oil Water Separator—is a REC as it is buried in the ground and received spills associated with the loading and unloading of materials from the ASTs.
- The Aboveground Storage Tanks—the Aboveground Storage Tanks are RECs as they previously contained petroleum products and most recently contained other non-hazardous materials. The Aboveground Storage Tanks have been demolished since the time of the January 2014 release.
- The Fuel and Oil Loading Rack areas – the trench drains beneath each loading rack drained to an OWS. These areas are RECs because of the history of petroleum product spills and their association with the Aboveground Storage Tanks recognized as RECs above.
- In-ground Hydraulic Lift—the hydraulic lift in the maintenance garage is a REC as the lift uses petroleum hydraulic oils is below ground piping. The potential exists for the piping and the lift to have a release of hydraulic fluids.
- Barge Dock – the barge dock is an REC due to the past history of bulk product transfer and potential spills near surface water and sediment receptors.
- Septic System—the septic system is a REC. The functionality of the system and the potential for system to receive non-sanitary wastewater is unknown.
- MCHM Release—the release of MCHM into the soils, groundwater, and surface water makes it a REC. The extent of the release into the environment has been investigated.



9.2 Controlled Recognized Environmental Conditions (CRECs)

The existing LUC is the current CREC at the Site. A LUC was entered into by Pennzoil-Quaker State and was recorded with the property deed in December 2004.

9.3 Historical Recognized Environmental Conditions (HRECs)

One HREC was identified during the Phase I ESA. The identified HREC is listed below:

- Former Underground Storage Tanks—the Site had 2 former underground storage tanks which were removed. The location of the former Underground Storage Tanks is unknown.

9.4 *De minimis* Conditions

Several areas of staining were found on the asphalt driveway and site roadways.

9.5 Observations

During the site visit, ARCADIS observed the Site undergoing closure, demolition, site maintenance, and environmental investigation. The potential for an additional release of materials into the environment is minimal.



**Phase I Environmental
Site Assessment Report**

Freedom Industries
1015 Barlow Drive
Charleston, WV 25311

10. Opinion Regarding Additional Investigations

The proposed plan of entering the Site into the West Virginia VRP will regulate additional investigation, remediation, closure, etc. if warranted. A West Virginia Licensed Remediation Specialist will oversee the process as required by the VRP rules.



**Phase I Environmental
Site Assessment Report**

Freedom Industries
1015 Barlow Drive
Charleston, WV 25311

11. Limiting Conditions/Deviations

One pump house was not accessible during the Site visit. This is considered as a limiting condition to the Phase I Report.



**Phase I Environmental
Site Assessment Report**

Freedom Industries
1015 Barlow Drive
Charleston, WV 25311

12. Data Gaps

One data gap as defined in ASTM E 1527-13 was identified in this assessment. No access to the fire pump house was available as the building was locked.



**Phase I Environmental
Site Assessment Report**

Freedom Industries
1015 Barlow Drive
Charleston, WV 25311

13. Conclusions

The information gathered from the Site visit, document review, interviews, and working knowledge of the Site has revealed evidence of historic and current environmental conditions in connection with the Site. Historic environmental conditions are related with historic petroleum storage and distribution at the Site. Current environmental conditions are primarily related to the release of MCHM in January 2014 and subsequent investigation and remediation.



**Phase I Environmental
Site Assessment Report**

Freedom Industries
1015 Barlow Drive
Charleston, WV 25311

14. Environmental Professional Statement

I declare that, to the best of my belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Section 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Section 312.

Mr. Todd Aebie resume is attached in **Appendix G**.



**Phase I Environmental
Site Assessment Report**

Freedom Industries
1015 Barlow Drive
Charleston, WV 25311

15. Additional Services

None provided.



16. References

- ASTM. 2013. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E 1527-13.
- Environmental Data Resources, Inc. (EDR). 2014, Radius Map Report, Inquiry Number 4141397.2s
- Environmental Data Resources, Inc. (EDR). 2014, EDR Geocheck[®] Report, Inquiry Number 4158801.1s
- Environmental Data Resources, Inc. (EDR). 2014, EDR City Directory Image Report, Inquiry Number 4149180.5
- Environmental Data Resources, Inc. (EDR). 2014, EDR Aerial Photo Decade Package, Inquiry Number 4149180.4
- Environmental Data Resources, Inc. (EDR). 2014, Certified Sanborn[®] Map Report, Inquiry Number 4149180.2
- Environmental Data Resources, Inc. (EDR). 2014, EDR Historical Topographic Map Report, Inquiry Number 4149180.1
- National Wetlands Inventory Website, <http://www.fws.gov/wetlands/Data/Mapper.html>, 2014
- Kanawha County Health Department Website, <http://www.kchdvw.org/Home/Inside-KCHD/Administration/Testimony.aspx>, 2014
- USEPA FOIA Request, February 2014
- West Virginia DEP FOIA Request, 2014 and WVDEP Website <http://www.dhsem.wv.gov/Pages/WV-American-Water-Emergency.aspx>, 2014
- Other information provided in Appendix C.

Figures



Appendix A

Photo Log

Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 1



Date: December 8, 2014

Direction East-Northeast

Description:

A view of the site from across the Elk River. Kanawah Regional Airport is located at the top of the hill.

Photo No.: 2



Date: December 8, 2014

Direction East

Description:

A view of the site from Across the Elk River. Kanawah Regional Airport is located at the top of the hill.

Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001



Photo No.: 3

Date: December 8, 2014

Direction Southwest

Description:
A view of the properties to the south of the site. The blue roofed garage is part of the site.



Photo No.: 4

Date: December 8, 2014

Direction Southwest

Description:
A view of the standard car garage on the south end of the site. This has the capacity to store 20 cars.

Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001



Photo No.: 5

Date: December 8, 2014

Direction Southwest

Description:
A view of the Semi truck garage and shop. The four farthest bays are mechanic shops for large trucks. Roll offs can be seen for transporting impacted soil at the southwest corner of the parking lot.



Photo No.: 6

Date: December 8, 2014

Direction West

Description:
Four roll offs for transporting impacted soil. Drums containing impacted soil boring cuttings are seen at the corner of the building.

Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 7

Date: December 8, 2014

Direction East

Description:
Some of the contents of the standard car garage can be seen.



Photo No.: 8

Date: December 8, 2014

Direction South

Description:
This view is from inside the standard car garage and shows some hoses and piping being stored. The partially shown vehicle is an antique oil truck.



Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001



Photo No.: 9

Date: December 8, 2014

Direction South

Description:
A diesel tank located inside the locker room of the large truck garage. This tank is located in the northwest corner of that garage.



Photo No.: 10

Date: December 8, 2014

Direction South

Description:
This view is of western half of the inside of the large truck shop. The plates on the ground to the left of the floor jack cover an oil pit.

Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 11

Date: December 8, 2014

Direction West

Description:
This view shows the floor heist pump and air compressor in the back corner of the large truck garage.



Photo No.: 12

Date: December 8, 2014

Direction West

Description:
This is a view of the south east corner of the office building.



Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 13



Date: December 8, 2014

Direction North-Northwest

Description:

A view of the warehouse loading ramp. The left of the picture a houseboat can be seen. To the right of the picture is a ramp leading down to the basement of the building.

Photo No.: 14



Date: December 8, 2014

Direction Northeast

Description:

A view of the main entrance gate from in front of the standard car garage.

Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 15

Date: December 8, 2014

Direction South-Southwest

Description:

A view of the cemetery located at the south west corner of the site and directly west of the large truck shop.



Photo No.: 16

Date: December 8, 2014

Direction South

Description:

A view down the hallway of the office area.



Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 17

Date: December 8, 2014

Direction Northwest

Description:
A view of the main office currently used
by the CRO.



Photo No.: 18

Date: December 8, 2014

Direction Northwest

Description:
A view of the central warehouse area.
Behind this picture is the truck loading
bay.



Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 19

Date: December 8, 2014

Direction Northwest

Description:

A view of the northwest room of the warehouse which two drums of MCHM product being retained as part of the investigation.



Photo No.: 20

Date: December 8, 2014

Direction North

Description:

A view of the company server/intranet configuration in the basement.



Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 21

Date: December 8, 2014

Direction North

Description:
A view from the main entrance to the office building with stairs leading down to the coal briquette laboratory.



Photo No.: 22

Date: December 8, 2014

Direction Northwest

Description:
A view of the contents of the coal lab. The boxes and buckets contain coal briquettes or coal dust.



Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 23

Date: December 8, 2014

Direction Northwest

Description:

A view from just outside the coal lab which is through the door in the rear. The drums contain coal briquettes and coal dust.



Photo No.: 24

Date: December 8, 2014

Direction Northeast

Description:

A view of product drum being stored as part of the investigation.



Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001



Photo No.: 25

Date: December 8, 2014

Direction West

Description:
A view of an electrical transformer in the basement of the office building.



Photo No.: 26

Date: December 8, 2014

Direction Northeast

Description:
A view of the basement where miscellaneous items are being kept.

Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 27

Date: December 8, 2014

Direction Southeast

Description:
A view of the file storage area in the basement.



Photo No.: 28

Date: December 8, 2014

Direction North-Northwest

Description:
A view looking out onto the former tank field from the northeast corner of the office building.



Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 29

Date: December 8, 2014

Direction North

Description:
A view of the oil water separator with a pump hose inside of it to drain the OWS.



Photo No.: 30

Date: December 8, 2014

Direction West-Southwest

Description:
A view from the oil water separator looking onto the southern end of the former tank farm.



Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001



Photo No.: 31

Date: December 8, 2014

Direction West

Description:

A view of the dewatering trench in the former containment area leading to a sump.



Photo No.: 32

Date: December 8, 2014

Direction Northwest

Description:

A view of the location of the MCHM spill. The tank that leaked was located roughly where the stake is on the left side of the picture. The brick building is a former fire control room. The roll-off to the right contains impacted soil.

Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 33

Date: December 8, 2014

Direction South-Southeast

Description:
A view of the double walled frac tanks containing collected storm water.



Photo No.: 34

Date: December 8, 2014

Direction Northeast

Description:
A view from inside the former fire control building. Water was pumped in and mixed with a foaming agent from this AST.



Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 35

Date: December 8, 2014

Direction West

Description:

A view from behind the former fire control building. The Elk River is at the foreground of the picture. Photos 1 and 2 were taken from locations visible in this photo.



Photo No.: 36

Date: December 8, 2014

Direction Northeast

Description:

A view of north of the former fire control building. This is the northernmost area of containment. The soil in the foreground was excavated due to MCHM impacts. In this process a portion of the secondary containment wall was removed.



Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001



Photo No.: 37

Date: December 8, 2014

Direction Southwest

Description:
A view from off the property of the frac tanks. The rail line is no longer in use.



Photo No.: 38

Date: December 8, 2014

Direction South

Description:
A view from the northern most portion of the site. The new storm water diversion trench is to the left just before the vegetation. To the right is the area of the MCHM spill.

Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 39

Date: December 8, 2014

Direction Northwest

Description:
A view of the electrical transformer for the former tank farm. The power drop was demolished with the tanks.



Photo No.: 40

Date: December 8, 2014

Direction Northwest

Description:
A view at the outfall of the storm water diversion trench.



Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001



Photo No.: 41

Date: December 8, 2014

Direction Northeast

Description:

A view of the pumphouse located at the south west corner of the property. Pumphouse was used for fire suppression lines.



Photo No.: 42

Date: December 8, 2014

Direction Southeast

Description:

A view of the hillside from near the river. The pumphouse from Photo 41 can be seen on the right.

Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001



Photo No.: 43

Date: December 8, 2014

Direction Southeast

Description:

A view of a pipe and brick and an empty drum on the hillside going to the river.



Photo No.: 44

Date: December 8, 2014

Direction Northwest

Description:

A view of the barge off-loading area. The off-loading hoses and pipes have been removed.

Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 45

Date: December 8, 2014

Direction East-Northeast

Description:
A view from the loading dock of two of the former product pipes coming down the hill from the tank farm.



Photo No.: 46

Date: December 8, 2014

Direction West

Description:
A view from the dock across the river.



Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001



Photo No.: 47

Date: December 8, 2014

Direction North

Description:
A view of the hillside just west of the former tank farm.



Photo No.: 48

Date: December 8, 2014

Direction North

Description:
A view of the collection trench down the hillside from where the MCHM spill occurred.

Project Name: Freedom Industries
City/State: Charleston, WV
ARCADIS Project No.: OH003003.0001

Photo No.: 49

Date: December 8, 2014

Direction Northeast

Description:

A view of the gas pipeline warning sign at the northern end of the property.



Photo No.: 50

Date: December 8, 2014

Direction West

Description:

A view across the Elk River of the gas pipeline warning sign.





Appendix B

User Questionnaire

**User Questionnaire
Required by ASTM Standard E1527-13**

Site Name and Address: Freedom Industries Inc, 1015 Barlow Drive, Charleston WV 25312

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Did a review of land title records (or judicial records where appropriate) identify any environmental cleanup liens that are filed or recorded against the property under federal, tribal, state or local law? Yes No

(2.) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.2(a)(1)(v) and (vi)).

Did a review of land title records (or judicial records where appropriate) identify any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the property and/or have been filed or recorded in a registry under federal, tribal, state or local law? Yes No

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

Do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business? Yes No

(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*? N/A Yes No

(5.) Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example,

(a.) Do you know the past uses of the *property*? Yes No

(b.) Do you know of specific chemicals that are present or once were present at the *property*? Yes No

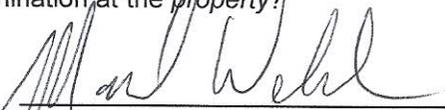
(c.) Do you know of spills or other chemical releases that have taken place at the *property*? Yes No

(d.) Do you know of any environmental cleanups that have taken place at the *property*? Yes No

(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*? Yes No

Mark Welch
Printed Name


Signature

1-27-2015
Date

If you answered yes to any question above, please provide explanation on separate sheet.

**User Questionnaire
Responses to “Yes” Questions**

(2.) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.2(a)(1)(v) and (vi)).

Response: In December 2004, the Site received a Land Use Covenant from the WV DEP (VRP #0456) listing restrictions in place at the Site.

(5.) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).

(a.) Do you know the past uses of the *property*?

Response: The primary past use of the property has been primarily commercial in nature as the site was used as a bulk petroleum terminal.

(b.) Do you know of specific chemicals that are present or once were present at the *property*?

Response: Chemicals reportedly present at the Site while it was a bulk petroleum terminal included; gasoline, diesel fuel, kerosene, aviation fuel, Methyl Tertiary Butyl Ether (MTBE) and associated breakdown products.
Chemicals reportedly onsite during the operations of Freedom Industries included: Lignin, 4-Methylcyclohexanemethanol (MCHM), Propylene Glycol Phenyl ether (PPH), glycerin, calcium chloride, and associated breakdown products.

(c.) Do you know of spills or other chemical releases that have taken place at the *property*?

Response: Environmental investigations have previously taken place at the facility. In addition, a release of MCHM occurred in January 2014 prompting the current environmental investigation and spill cleanup.

(d.) Do you know of any environmental cleanups that have taken place at the *property*?

Response: Yes—soils removal has taken place to remove exceedances of lead in the past. In response to the January 2014 release of at the facility, MCHM and PPH impacted soils have been excavated (and continue to be removed) as deemed necessary. In order to protect the nearby stream from impacted run off, any surface water that travels across the site has been collected, treated (if necessary) and properly disposed. These efforts are ongoing.

(6.) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Response: Yes—the January 2014 release has known impact to soils in the area of the release. The facility is undergoing investigation and remediation in response to the release.



Appendix C

Historical Research
Documentation (Refer to CD)



Appendix D

Previous Environmental Reports

Freedom Industries

1015 Barlow Dr
Charleston, WV 25311

Inquiry Number: 4149180.5
December 04, 2014

The EDR-City Directory Image Report

TABLE OF CONTENTS

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.

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>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2013	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1999	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1987	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1982	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1977	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1972	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1967	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory

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FINDINGS

TARGET PROPERTY STREET

1015 Barlow Dr
Charleston, WV 25311

Year CD Image Source

BARLOW DR

2013	pg A1	Cole Information Services	
2008	pg A2	Cole Information Services	
2003	pg A3	Cole Information Services	
1999	pg A4	Cole Information Services	
1995	pg A5	Cole Information Services	
1992	pg A6	Cole Information Services	
1987	pg A7	Polk's City Directory	
1982	-	Polk's City Directory	Street not listed in Source
1977	-	Polk's City Directory	Street not listed in Source
1972	-	Polk's City Directory	Street not listed in Source
1967	-	Polk's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

BARLOW DR 2013

901 OCCUPANT UNKNOWN
903 ANGELA SEXTON
905 BETTY ESTEP
JAMES VERMILLION
924 AMBER MACE
JAMES VERMILLION
927 DEFENSE SOLUTIONS LLC
GRINSTEAD GROUP INC
HERITAGECRYSTAL CLEAN
MOUNTAINEER PACKAGING
RENTACENTER
ROMANOFF FLOOR COVERING
YOUNGS INC WAREHOUSE
962 OCCUPANT UNKNOWN
964 CLARENCE FLECK
JOHN THWEATT
SARAH HANCOCK
970 AMY WOOD
1007 DEBORAH GREENE
1009 JOHN HARRAH
1015 ETOWAH RIVER TERMINAL
FISHER & GILKESON
FREEDOM INDUSTRIES
1146 RONALD MILLER
1148 DONALD SPENCER
1317 OCCUPANT UNKNOWN

BARLOW DR 2008

901	OCCUPANT UNKNOWN
903	MISTY HISSOM
905	BETTY ESTEP
	JAMES VERMILLION
924	JAMES VERMILLION
925	ARTISTIC PRINTING & SOUVENIRS
	DAVID CROWN ENTERPRISES
	PREMIER DELIVERY SERVICE
927	AUGUSTA CONSTRUCTION SERVICES
	GRINSTEAD GROUP INC
	HERITAGE CRYSTAL CLEAN LLC
	NEIGHBORCARE AT HOME
	PHALEN FLOOR COVERING LLC
	YOUNGS INC WAREHOUSE
962	OCCUPANT UNKNOWN
964	CLARENCE FLECK
	JOHN SHAMBLIN
	OCCUPANT UNKNOWN
	ROY MARTIN
	SCOTT HILL
966	OCCUPANT UNKNOWN
968	OCCUPANT UNKNOWN
972	JOHN FLECK
1007	J SCHOTT
	OCCUPANT UNKNOWN
1009	M HARRAH
1015	ETOWAH RIVER TERMINAL
	FREEDOM INDUSTRIES INC
	ROY A GILKESON
1048	EARL KENDRICK
1143	RICHARD HARRIS
1145	R CHEWNING
1146	EARL MILLER
1147	JOHN CLAY
1148	DONALD SPENCER
1317	MICHAEL BURDETTE
1321	WILLIAM WHITLEY
1329	JAMES LAWSON
1333	JERRY GRADY
	THE INTERNATIONAL ASSN OF LIONS CLUB
1335	JUSTIN UNDERWOOD

BARLOW DR 2003

901	JANET DAVIS
903	TERRY SEXTON
905	WILLIAM ESTEP
920	EARL MILLER
922	WALTER STRICKER
924	LOUISE VERMILLION
925	BRINKS ARMORED INC CONTINENTL FLOORING CO CRANE AMERICA SERVICES KEYSTONE MNTNR POWER SYSTM INC
927	ANDERSON C E CHARLESTON ACOUSTICS ELEPHANT TALK MID ATLANTIC TRUCK ACCESSORIES YOUNGS INC
964	CLARENCE FLECK KRISTY HILL OCCUPANT UNKNOWN ROY MARTIN
966	JEREMIAH JENKINS
968	HODE KIRK VIOLET MOATS
972	DORIS WITHROW
1007	DEBORAH GREENE OCCUPANT UNKNOWN THOMAS SCHOTT
1009	JOHN HARRAH
1015	ROY GILKESON
1143	RICHARD HARRIS
1145	R CHEWNING
1146	TINA MILLER
1147	JOHN CLAY
1317	MICHAEL BURDETTE
1321	WILLIAM WHITLEY
1329	JAMES LAWSON
1333	CLYDE GRIFFIN INTERNATIONAL ASSOCIATION OF L
1335	ROBERT RUSHTON

BARLOW DR 1999

0	ROY MARTIN
901	KAY DAVIS
903	TERRY SEXTON
905	WILLIAM ESTEP
920	EARL MILLER
922	LOUISE VERMILLION
	WALTER STRICKER
924	JAMES VERMILLION
925	PARK TOURS
927	ANDERSON C E
	C ANDERSON
	CHARLESTON ACOUSTICS SUPPLY HOUSE
	DURALINER USA
	HUFCOR ACCORDIAN DOORS & FOLDING PARTITIONS
	NEW RIVER ALE
	YOUNGS INCORPORATED WAREHOUSE
960	GOLDIE MILLER
962	OCCUPANT UNKNOWN
964	BARBARA BURGESS
	BEULAH MAYS
	C FLECK
966	FRED HINZMAN
968	LISA BELCHER
970	OCCUPANT UNKNOWN
1007	DEBORAH GREENE
1009	JOHN HARRAH
1015	PENNZOIL PRODUCTS COMPANY DIVISION OFFICE
1048	JAMES BOWERS
1138	JOHN ESTEP
1140	G ESTEP
1143	RICHARD HARRIS
1145	JERRY TURNER
1146	TINA MILLER
1147	JOHN CLAY
1321	WILLIAM WHITLEY
1329	OCCUPANT UNKNOWN
1333	CLYDE GRIFFIN
	MARY PRICE

BARLOW DR 1995

903	SEXTON, TERRY
905	ESTEP, WILLIAM R
920	MILLER, EARL W
922	STRICKER, WATER L VERMILLION, LOUISE
924	VERMILLION, JAMES A
927	AMERICAN DEALER ACCESSORIES CHARLESTON ACOUSTICS SUPPLY YOUNGS INC
960	MILLER, GOLDIE B
962	LEGG, RAYMOND
964	BURGESS, BARBARA FLECK, C HILL, KRISTY MARTIN, ROY JR MAYS, CHARLIE C MOSS, MARY A
968	THAXTON, HERMAN
970	FLECK, JOHN
1007	GREENE, DEBORAH S SCHOTT, CHARLES
1009	HARRAH, JOHN A
1015	PENNZOIL DISTRIBUTOR PENNZOIL PRODUCTS
1048	BOWERS, JAMES C
1138	OCCUPANT UNKNOWNN
1140	ESTEP, GAY L
1143	BROWN, DARLINE
1145	ARMSTRONG, REGINA
1147	CLAY, JOHN C
1148	OCCUPANT UNKNOWNN
1317	EDDYS SEWER & DRAIN CLEANING
1321	WHITLEY, WILLIAM R
1325	OCCUPANT UNKNOWNN
1329	OCCUPANT UNKNOWNN
1333	GRIFFIN, CLYDE B PRICE, MARY
1335	BUSHTON, ROBERT E

BARLOW DR 1992

903	GIBSON, LUCY P
905	ESTEP, WILLIAM R
920	MILLER, EARL W
922	STRICKER, WALTER L VERMILLION, LOUISE
924	VERMILLION, JAMES A
927	AMERICAN MARKET CHARLESTON ACOUSTCS COOK CONCRETE SUPPL YOUNGS INC
960	MILLER, DOYLE
964	BURGESS, BARBARA FLECK, C MARTIN, ROY JR MAYS, CHARLIE C SHABDUE, JOHN W
1007	GREENE, DEBORAH S SCHOTT, CHARLES
1009	HARRAH, JOHN A
1015	PENNZOIL CO PENNZOIL PRODS WHSE
1048	BOWERS, JAMES C
1143	HARRIS, RICHARD E
1147	CLAY, JOHN C
1245	GAS-TEX ENERGY INC
1317	EDDYS SEWER
1321	WHITLEY, WILLIAM R
1331	GREENWOOD, LLOYD A
1333	PRICE, MICHAEL WOOLDRIDGE, JAY A

BARLOW DR 1987

652

BARLOW DR -FROM 103 KEYSTONE
DR WEST

ZIP CODE 25311

901 Davis Angie 344-0639
903 Gibson Lucy 344-4214
905 Estep Wm R 343-1740
920 Miller Earl W
922 Stricker W L 346-7339
922½ Vermillion Louise 344-3829
924★Vermillion Jas A © 343-5933
927a Charleston Acoustics (ofc & showrm)
343-1332
927b Youngs Inc trucking 345-8222
927c Vacant
927d Vacant
960 Miller Doyle J © 342-6377
962★Schott Chuck
964 Shabdue Katherine Mrs 342-3964
964½ Fleck Clarence 346-2750
964a Martin Roy Jr 344-3987
964b Mays Beauleha 343-2240
964c Lucas A D 342-2352
968 Vacant
1007a Greca Debra 344-3033
1007c Schott Robt A 342-6077
1009 Harrah John A 342-0989
1015 Pennzoil Products Co 342-8161
1048 Bowers Lorene Mrs 343-0459
1050 Vacant
1138 Wiseman Margt 346-0121
1140 Estep G L 343-3300
1143 Harris E L & Sons Inc genl bldg contrs
343-4301
1145 Breeden Ruby Mrs 343-9308
1146 Miller Earl
1300 Harris E L & Sons Inc (Warehouse)
1317★Eddy Murrel
1321★Whitley Wm R 346-7910



Freedom Industries

1015 Barlow Dr

Charleston, WV 25311

Inquiry Number: 4149180.4

December 02, 2014

The EDR Aerial Photo Decade Package



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Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

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Date EDR Searched Historical Sources:

Aerial Photography December 02, 2014

Target Property:

1015 Barlow Dr

Charleston, WV 25311

<u><i>Year</i></u>	<u><i>Scale</i></u>	<u><i>Details</i></u>	<u><i>Source</i></u>
1955	Aerial Photograph. Scale: 1"=750'	Flight Date: April 08, 1955	EDR
1960	Aerial Photograph. Scale: 1"=500'	Flight Date: April 13, 1960	EDR
1971	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1971	USGS
1977	Aerial Photograph. Scale: 1"=1000'	Flight Date: April 09, 1977	EDR
1984	Aerial Photograph. Scale: 1"=1000'	Flight Date: April 11, 1984	EDR
1990	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: October 05, 1990	USGS/DOQQ
1996	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1996	USGS
2007	Aerial Photograph. Scale: 1"=500'	Flight Year: 2007	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2011	Aerial Photograph. Scale: 1"=500'	Flight Year: 2011	USDA/NAIP



INQUIRY #: 4149180.4

YEAR: 1955

| = 750'





INQUIRY #: 4149180.4

YEAR: 1960

| = 500'



EDR



INQUIRY #: 4149180.4

YEAR: 1971

| = 500'





INQUIRY #: 4149180.4

YEAR: 1977

— = 1000'





INQUIRY #: 4149180.4

YEAR: 1984

| = 1000'





INQUIRY #: 4149180.4

YEAR: 1990

| = 500'





INQUIRY #: 4149180.4

YEAR: 1996

| = 500'





INQUIRY #: 4149180.4

YEAR: 2007

| = 500'





INQUIRY #: 4149180.4

YEAR: 2009

| = 500'





INQUIRY #: 4149180.4

YEAR: 2011

| = 500'





Freedom Industries

1015 Barlow Dr

Charleston, WV 25311

Inquiry Number: 4149180.2

December 02, 2014

Certified Sanborn® Map Report



6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

12/02/14

Site Name:

Freedom Industries
1015 Barlow Dr
Charleston, WV 25311

Client Name:

ARCADIS U.S., Inc.
111 Saunders Lane Suite B
Bluefield, VA 24605



EDR Inquiry # 4149180.2

Contact: Chris Richardson

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by ARCADIS U.S., 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:

Site Name: Freedom Industries
Address: 1015 Barlow Dr
City, State, Zip: Charleston, WV 25311
Cross Street:
P.O. # OH003003.0001
Project: Freedom Industries
Certification # 436C-45C5-B968



Sanborn® Library search results
Certification # 436C-45C5-B968

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.

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- Library of Congress
- University Publications of America
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Freedom Industries

1015 Barlow Dr

Charleston, WV 25311

Inquiry Number: 4149180.1

December 02, 2014

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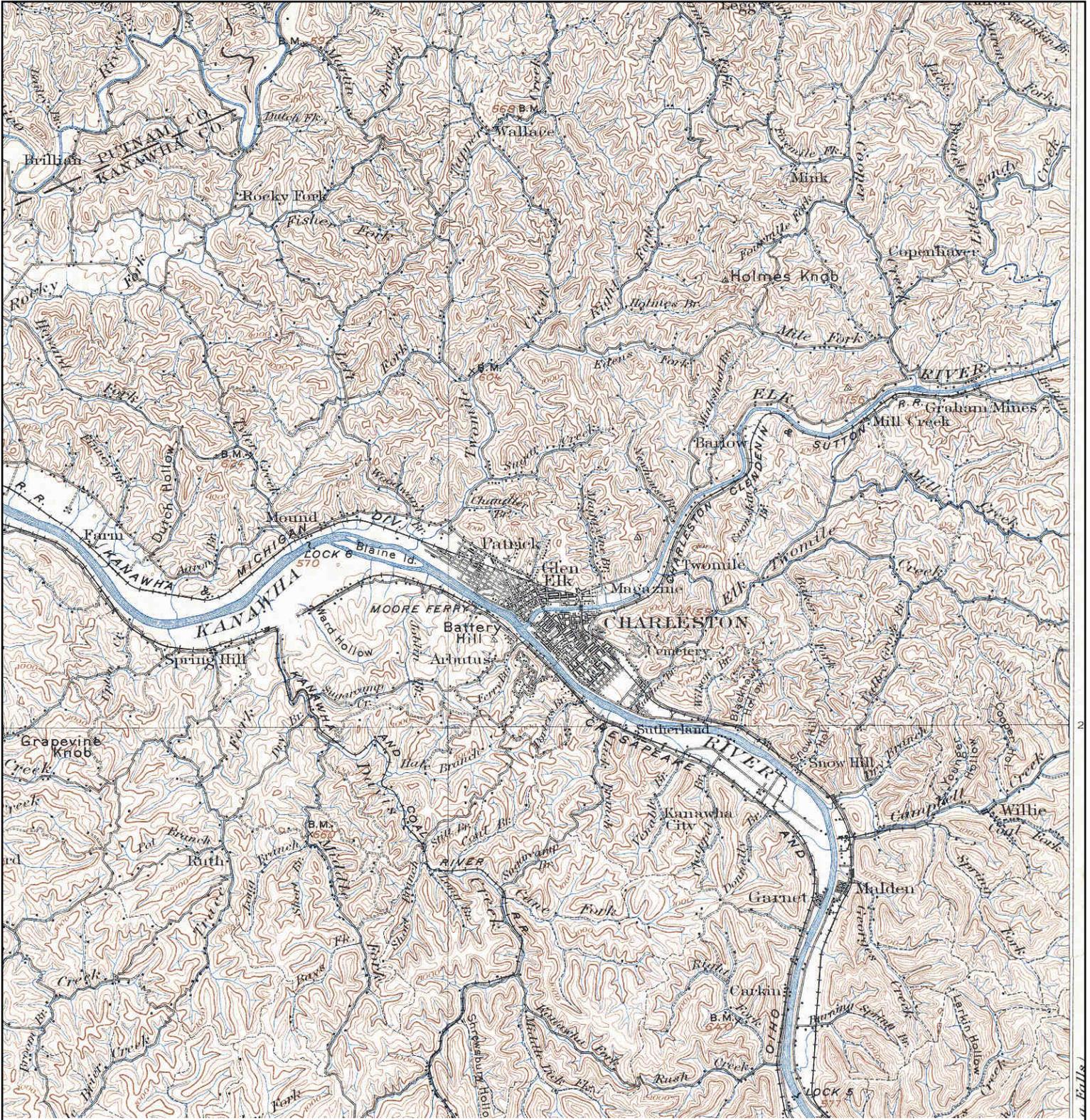
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Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: CHARLESTON MAP YEAR: 1899</p>	<p>SITE NAME: Freedom Industries ADDRESS: 1015 Barlow Dr Charleston, WV 25311 LAT/LONG: 38.3682 / -81.6066</p>	<p>CLIENT: ARCADIS U.S., Inc. CONTACT: Chris Richardson INQUIRY#: 4149180.1 RESEARCH DATE: 12/02/2014</p>
	<p>SERIES: 30 SCALE: 1:125000</p>		

Historical Topographic Map



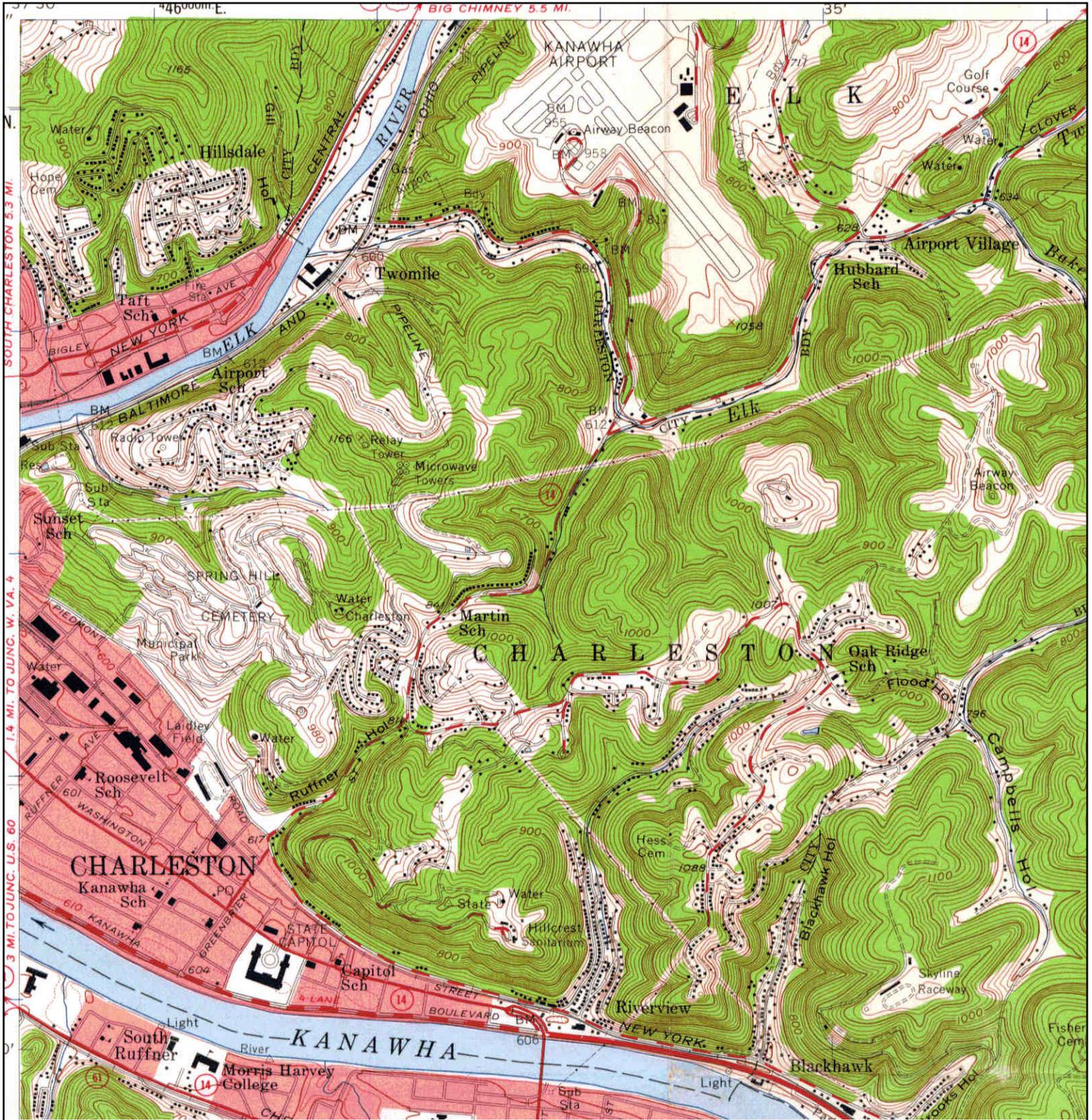
	TARGET QUAD	SITE NAME: Freedom Industries	CLIENT: ARCADIS U.S., Inc.
	NAME: CHARLESTON	ADDRESS: 1015 Barlow Dr	CONTACT: Chris Richardson
	MAP YEAR: 1909	Charleston, WV 25311	INQUIRY#: 4149180.1
	SERIES: 15	LAT/LONG: 38.3682 / -81.6066	RESEARCH DATE: 12/02/2014
	SCALE: 1:62500		

Historical Topographic Map



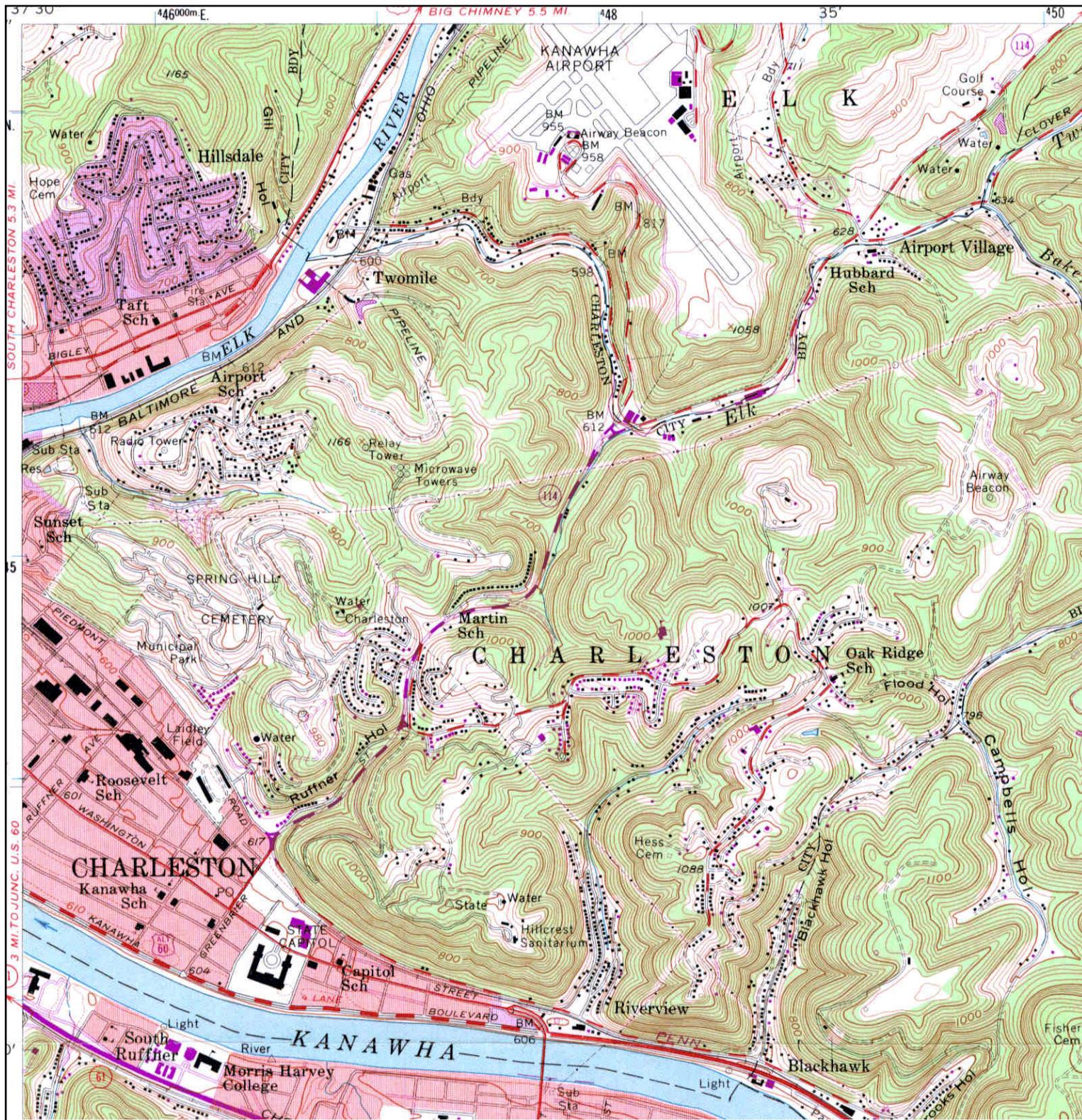
	TARGET QUAD	SITE NAME: Freedom Industries	CLIENT: ARCADIS U.S., Inc.
	NAME: CHARLESTON	ADDRESS: 1015 Barlow Dr	CONTACT: Chris Richardson
	MAP YEAR: 1936	Charleston, WV 25311	INQUIRY#: 4149180.1
	SERIES: 15	LAT/LONG: 38.3682 / -81.6066	RESEARCH DATE: 12/02/2014
	SCALE: 1:62500		

Historical Topographic Map



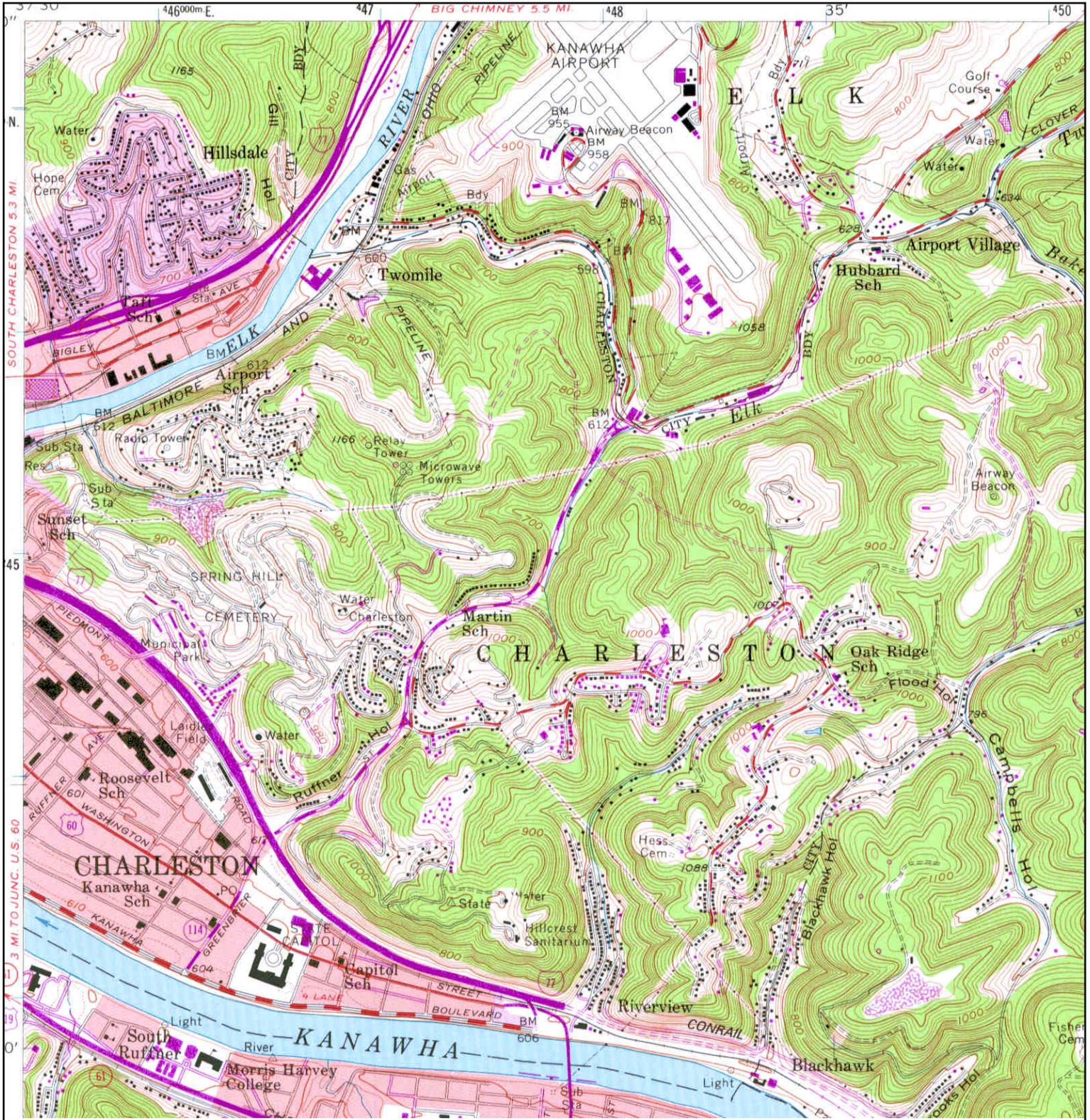
	TARGET QUAD	SITE NAME: Freedom Industries	CLIENT: ARCADIS U.S., Inc.
	NAME: CHARLESTON EAST	ADDRESS: 1015 Barlow Dr	CONTACT: Chris Richardson
	MAP YEAR: 1957	LAT/LONG: 38.3682 / -81.6066	INQUIRY#: 4149180.1
	SERIES: 7.5		RESEARCH DATE: 12/02/2014
	SCALE: 1:24000		

Historical Topographic Map



	TARGET QUAD	SITE NAME: Freedom Industries	CLIENT: ARCADIS U.S., Inc.
	NAME: CHARLESTON EAST	ADDRESS: 1015 Barlow Dr	CONTACT: Chris Richardson
	MAP YEAR: 1971	CHARLESTON, WV 25311	INQUIRY#: 4149180.1
	PHOTOREVISED FROM : 1957	LAT/LONG: 38.3682 / -81.6066	RESEARCH DATE: 12/02/2014
	SERIES: 7.5		
	SCALE: 1:24000		

Historical Topographic Map



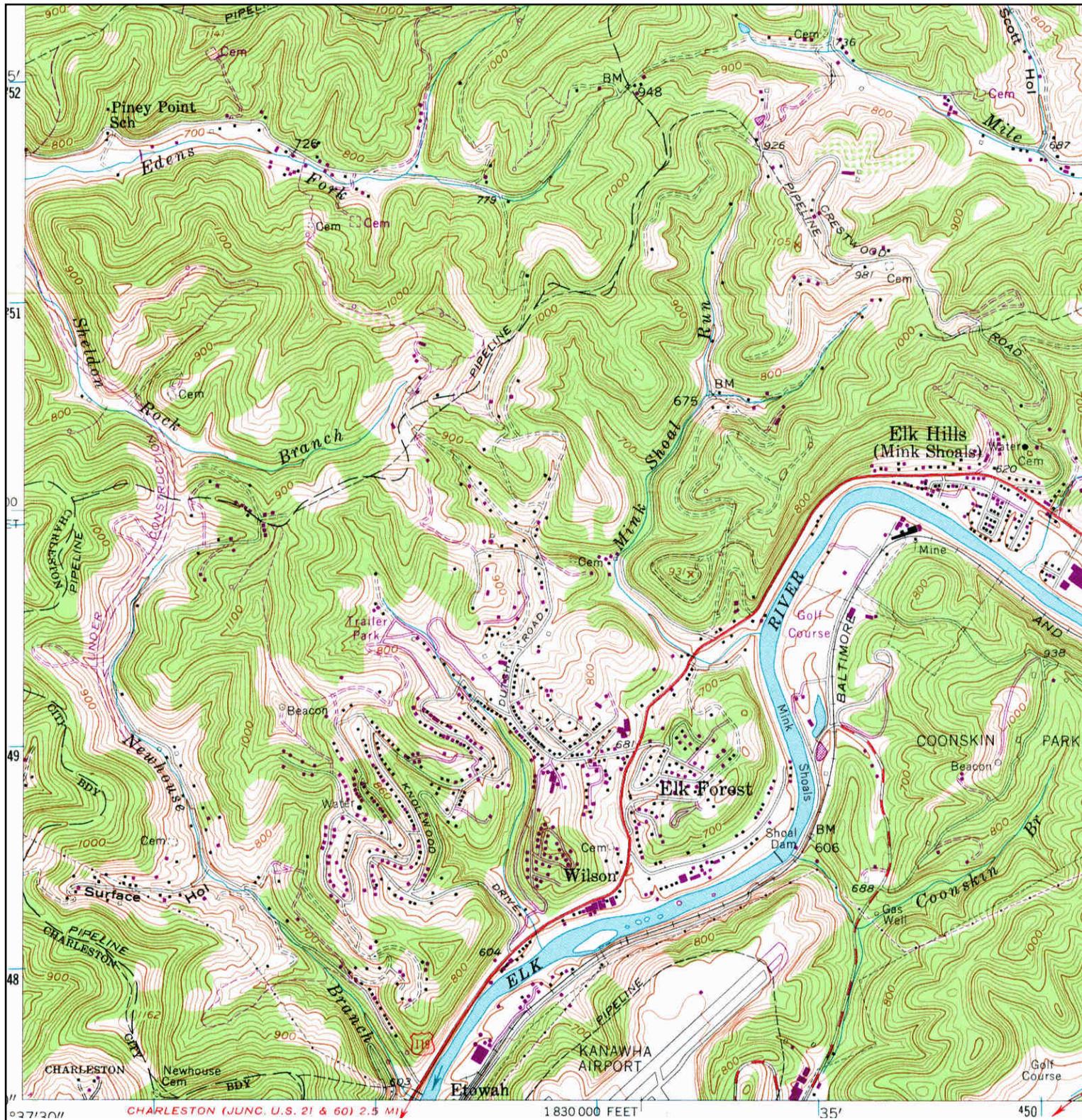
<p>N ↑</p>	TARGET QUAD	SITE NAME: Freedom Industries	CLIENT: ARCADIS U.S., Inc.
	NAME: CHARLESTON EAST	ADDRESS: 1015 Barlow Dr	CONTACT: Chris Richardson
	MAP YEAR: 1976	CHARLESTON, WV 25311	INQUIRY#: 4149180.1
	PHOTOREVISED FROM : 1958	LAT/LONG: 38.3682 / -81.6066	RESEARCH DATE: 12/02/2014
	SERIES: 7.5		
	SCALE: 1:24000		

Historical Topographic Map



	ADJOINING QUAD						
	NAME:	BIG CHIMNEY		SITE NAME:	Freedom Industries	CLIENT:	ARCADIS U.S., Inc.
	MAP YEAR:	1958		ADDRESS:	1015 Barlow Dr Charleston, WV 25311	CONTACT:	Chris Richardson
	SERIES:	7.5		LAT/LONG:	38.3682 / -81.6066	INQUIRY#:	4149180.1
	SCALE:	1:24000			RESEARCH DATE:	12/02/2014	

Historical Topographic Map



	ADJOINING QUAD	SITE NAME: Freedom Industries	CLIENT: ARCADIS U.S., Inc.
	NAME: BIG CHIMNEY	ADDRESS: 1015 Barlow Dr	CONTACT: Chris Richardson
	MAP YEAR: 1971	Charleston, WV 25311	INQUIRY#: 4149180.1
	PHOTOREVISED FROM :1958	LAT/LONG: 38.3682 / -81.6066	RESEARCH DATE: 12/02/2014
	SERIES: 7.5		
	SCALE: 1:24000		

Historical Topographic Map



	ADJOINING QUAD						
	NAME:	BIG CHIMNEY		SITE NAME:	Freedom Industries	CLIENT:	ARCADIS U.S., Inc.
	MAP YEAR:	1976		ADDRESS:	1015 Barlow Dr	CONTACT:	Chris Richardson
	PHOTOREVISED FROM :	1958		LAT/LONG:	38.3682 / -81.6066	INQUIRY#:	4149180.1
	SERIES:	7.5				RESEARCH DATE:	12/02/2014
	SCALE:	1:24000					



Appendix E

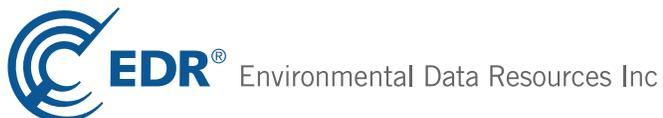
EDR Radius Map with
Geocheck[®]

Freedom Industries

1015 Barlow Dr
Charleston, WV 25311

Inquiry Number: 4158801.1s
December 11, 2014

The EDR GeoCheck® Report



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Shelton, CT 06484
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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

FREEDOM INDUSTRIES
1015 BARLOW DR
CHARLESTON, WV 25311

TARGET PROPERTY COORDINATES

Latitude (North): 38.3681 - 38° 22' 5.16"
Longitude (West): 81.6065 - 81° 36' 23.40"
Universal Tranverse Mercator: Zone 17
UTM X (Meters): 447016.6
UTM Y (Meters): 4246625.5
Elevation: 617 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 38081-C5 CHARLESTON EAST, WV
Most Recent Revision: 1996

North Map: 38081-D5 BIG CHIMNEY, WV
Most Recent Revision: 1976

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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).

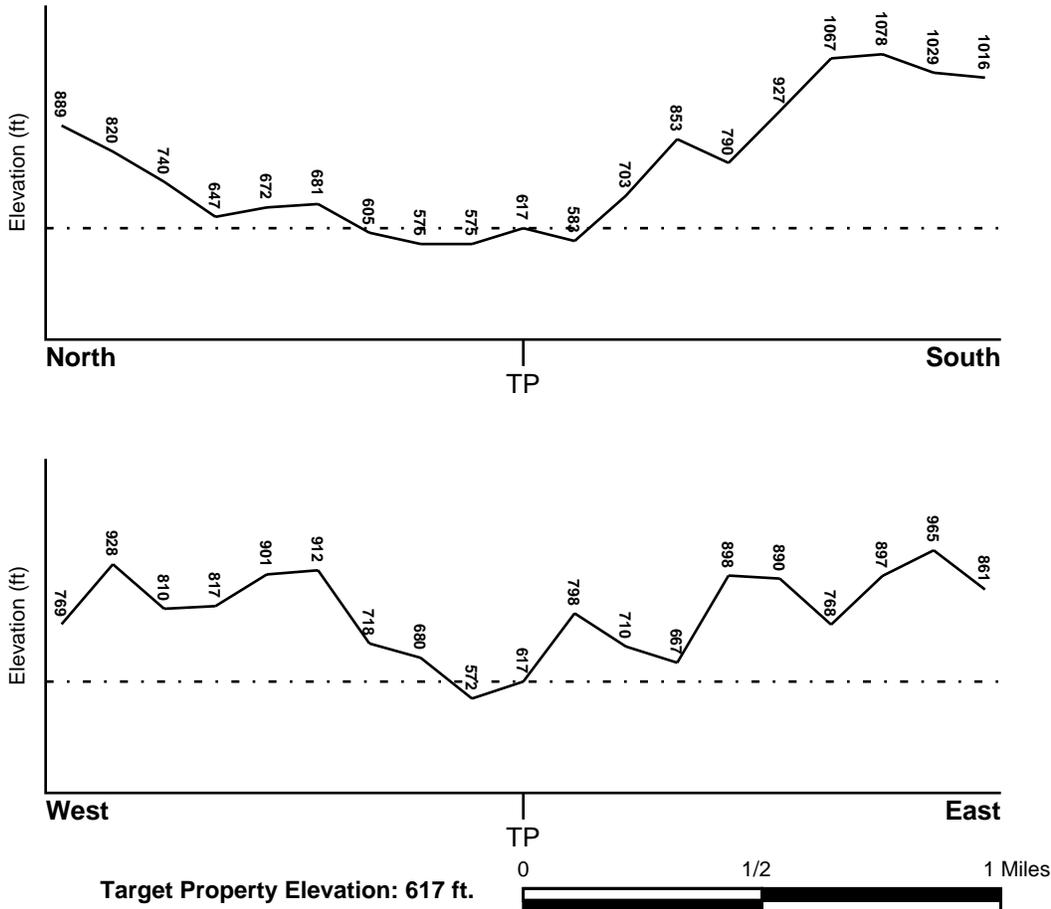
TOPOGRAPHIC INFORMATION

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 North

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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

<u>Target Property County</u> KANAWHA, WV	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
--	---

Flood Plain Panel at Target Property: 54039C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> CHARLESTON EAST	<u>NWI Electronic Data Coverage</u> 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.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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

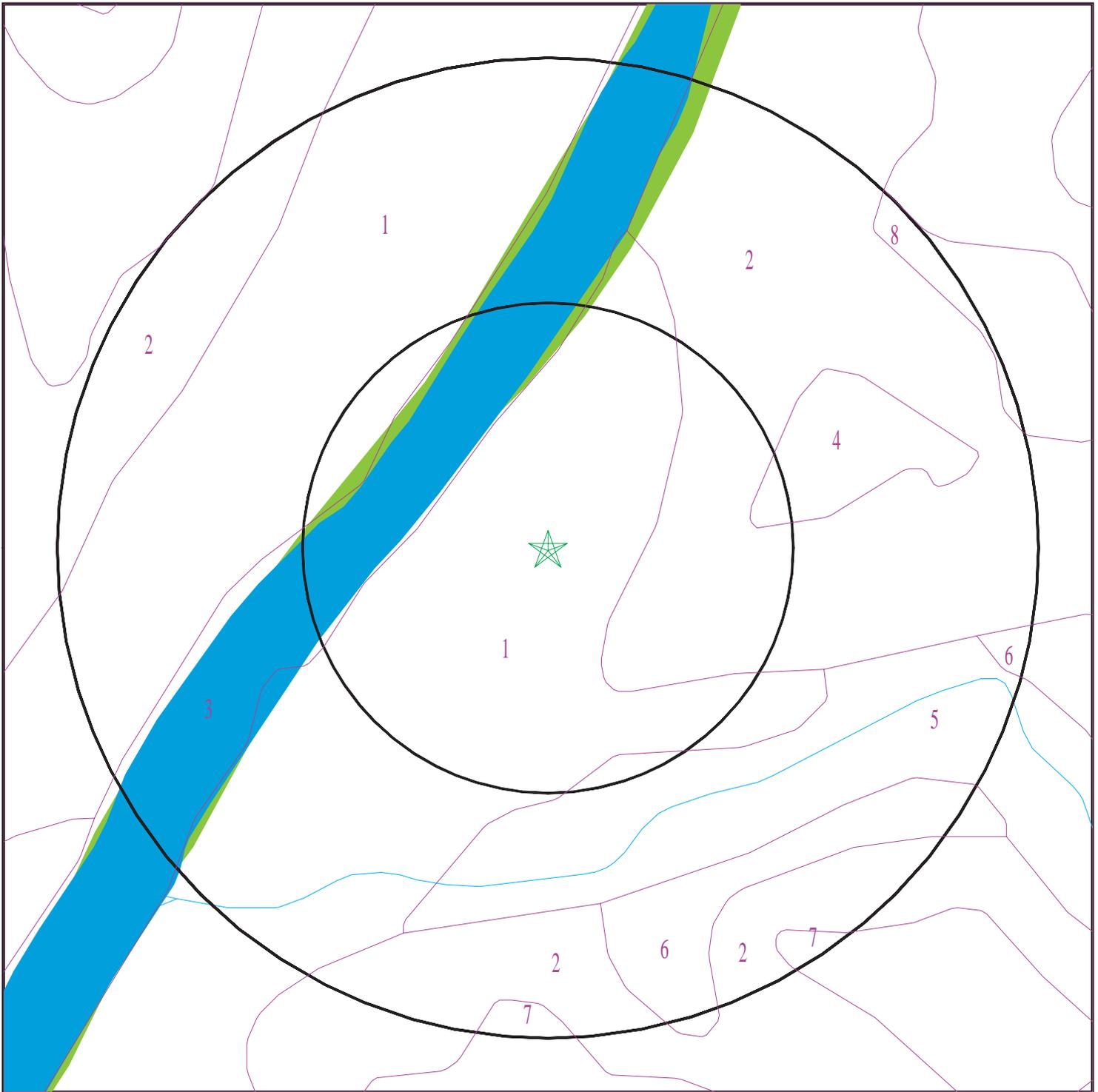
Era:	Paleozoic
System:	Pennsylvanian
Series:	Des Moinesian Series
Code:	PP2 (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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 - 4158801.1s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Freedom Industries
ADDRESS: 1015 Barlow Dr
Charleston WV 25311
LAT/LONG: 38.3681 / 81.6065

CLIENT: ARCADIS U.S., Inc.
CONTACT: Chris Richardson
INQUIRY #: 4158801.1s
DATE: December 11, 2014 2:57 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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: Udorthents, smoothed

Soil Surface Texture: Not reported
Hydrologic Group:

Soil Drainage Class: Unknown
Hydric Status:

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Clymer

Soil Surface Texture: channery 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: > 76 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	channery loam	Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
2	11 inches	37 inches	channery clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
3	37 inches	51 inches	very channery loam	Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
4	51 inches	55 inches	weathered bedrock	Not reported	Not reported	Max: 4 Min: 1.4	Max: Min:

Soil Map ID: 3

Soil Component Name: Water

Soil Surface Texture: channery 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:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: Gilpin

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: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
2	11 inches	29 inches	channery silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
3	29 inches	35 inches	very channery silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
4	35 inches	38 inches	unweathered bedrock	Not reported	Not reported	Max: 4 Min: 1.4	Max: Min:

Soil Map ID: 5

Soil Component Name: Udifluvents

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:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 6

Soil Component Name: Laidig

Soil Surface Texture: channery sandy 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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 63 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	channery sandy loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 4	Max: 5.5 Min: 3.6
2	9 inches	44 inches	channery loam	Not reported	Not reported	Max: 42 Min: 4	Max: 5.5 Min: 3.6
3	44 inches	81 inches	very channery loam	Not reported	Not reported	Max: 4 Min: 0.42	Max: 5.5 Min: 3.6

Soil Map ID: 7

Soil Component Name: Gilpin

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	11 inches	29 inches	channery silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
3	29 inches	35 inches	very channery silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
4	35 inches	38 inches	unweathered bedrock	Not reported	Not reported	Max: 4 Min: 1.4	Max: Min:

Soil Map ID: 8

Soil Component Name: Gilpin

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
2	11 inches	29 inches	channery silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
3	29 inches	35 inches	very channery silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
4	35 inches	38 inches	unweathered bedrock	Not reported	Not reported	Max: 4 Min: 1.4	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	1.000
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS40001296906	1/8 - 1/4 Mile NNW
A2	USGS40001296910	1/8 - 1/4 Mile NNW
3	USGS40001296882	1/4 - 1/2 Mile West
B4	USGS40001296815	1/2 - 1 Mile SE
B5	USGS40001296809	1/2 - 1 Mile SE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

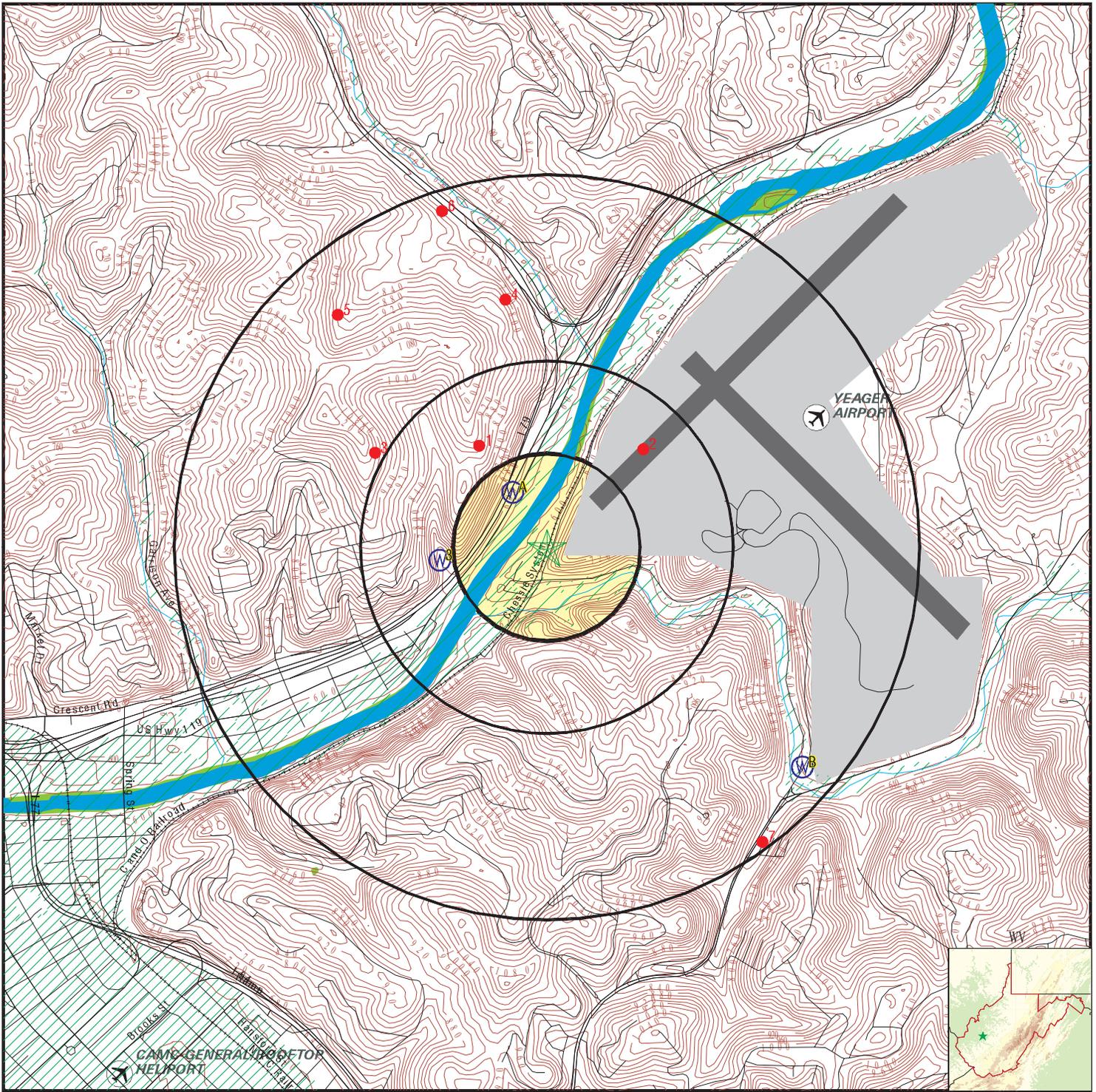
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	WVOG80000031988	1/4 - 1/2 Mile NNW
2	WVOG80000042009	1/4 - 1/2 Mile NE
3	WVOG80000025385	1/2 - 1 Mile WNW
4	WVOG80000094595	1/2 - 1 Mile North
5	WVOG80000084815	1/2 - 1 Mile NW
6	WVOG80000019304	1/2 - 1 Mile NNW
7	WVOG80000071048	1/2 - 1 Mile SE

PHYSICAL SETTING SOURCE MAP - 4158801.1s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory



SITE NAME: Freedom Industries
 ADDRESS: 1015 Barlow Dr
 Charleston WV 25311
 LAT/LONG: 38.3681 / 81.6065

CLIENT: ARCADIS U.S., Inc.
 CONTACT: Chris Richardson
 INQUIRY #: 4158801.1s
 DATE: December 11, 2014 2:57 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A1
NNW
1/8 - 1/4 Mile
Lower

FED USGS USGS40001296906

Org. Identifier:	USGS-WV		
Formal name:	USGS West Virginia Water Science Center		
Monloc Identifier:	USGS-382212081363001		
Monloc name:	Kan-0700		
Monloc type:	Well		
Monloc desc:	Original station name was 8 41L E SURGEON		
Huc code:	05050007	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.3700972
Longitude:	-81.6081789	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	600.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Alluvial aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19100101	Welldepth:	33
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1957-04-01	18.00	

A2
NNW
1/8 - 1/4 Mile
Lower

FED USGS USGS40001296910

Org. Identifier:	USGS-WV		
Formal name:	USGS West Virginia Water Science Center		
Monloc Identifier:	USGS-382213081363001		
Monloc name:	Kan-0329		
Monloc type:	Well		
Monloc desc:	Original station name was 4006066		
Huc code:	05050007	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.370375
Longitude:	-81.6081789	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	600.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	33
Construction date:	19100101	Wellholedepth:	Not Reported
Welldepth units:	ft		
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1957-04-01	19.00	

3
West
1/4 - 1/2 Mile
Lower

FED USGS USGS40001296882

Org. Identifier:	USGS-WV		
Formal name:	USGS West Virginia Water Science Center		
Monloc Identifier:	USGS-382203081364301		
Monloc name:	Kan-0698		
Monloc type:	Well		
Monloc desc:	Original station name was 7 41DORA HUBBERT		
Huc code:	05050007	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.3675972
Longitude:	-81.61179	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	610.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19000101	Welldepth:	7
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1957-04-01	3.00	

B4
SE
1/2 - 1 Mile
Lower

FED USGS USGS40001296815

Org. Identifier:	USGS-WV		
Formal name:	USGS West Virginia Water Science Center		
Monloc Identifier:	USGS-382135081353901		
Monloc name:	Kan-0683		
Monloc type:	Well		
Monloc desc:	Original station name was 9 41H C GUHRKEN		
Huc code:	05050007	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.3598199
Longitude:	-81.5940116	Sourcemap scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	600.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Alluvial aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19100101	Welldepth:	17
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1957-03-01	9.00	

**B5
SE
1/2 - 1 Mile
Lower**

FED USGS USGS40001296809

Org. Identifier:	USGS-WV		
Formal name:	USGS West Virginia Water Science Center		
Monloc Identifier:	USGS-382133081353801		
Monloc name:	Kan-0290		
Monloc type:	Well		
Monloc desc:	Original station name was 4005004		
Huc code:	05050007	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.3592644
Longitude:	-81.5937338	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	622.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Alluvial aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19100101	Welldepth:	17
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1957-03-01	9.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1

NNW

1/4 - 1/2 Mile

OIL_GAS

WVOG80000031988

Well x:	446728.5		
Well y:	4247272.1		
Geosource:	ERIS-LL	Status:	Active Well
Type:	Gas Well	Use:	Production
Depth:	Shallow greater than 3,000 feet	Rig type:	Rotary Rig
Farm name:	LANE, RONALD, INC.		
Well numbr:	R. LANE 3		
Resp party:	RESERVE OIL & GAS, INC.		
Api:	039-05986		
County:	39		
Permit:	5986		
Recvd date:	20070308	Issue date:	20070308
Permitid:	3905986	Permit id:	Not Reported
Site id:	WVOG80000031988		

2

NE

1/4 - 1/2 Mile

OIL_GAS

WVOG80000042009

Well x:	447437.1		
Well y:	4247252.2		
Geosource:	ERIS-LL	Status:	NA
Type:	NA	Use:	NA
Depth:	NA	Rig type:	NA
Farm name:	CENTRAL WV REGIONAL AIRPO		
Well numbr:	YEAGER 1		
Resp party:	RESERVE OIL & GAS, INC.		
Api:	039-06326		
County:	39		
Permit:	6326		
Recvd date:	20111213	Issue date:	20111219
Permitid:	3906326	Permit id:	Not Reported
Site id:	WVOG80000042009		

3

WNW

1/2 - 1 Mile

OIL_GAS

WVOG80000025385

Well x:	446278.9		
Well y:	4247244.6		
Geosource:	ERIS-LL	Status:	NA
Type:	Gas Well	Use:	Production
Depth:	Shallow greater than 3,000 feet	Rig type:	Rotary Rig
Farm name:	RONALD LANE, INC.		
Well numbr:	R. LANE 6		
Resp party:	RESERVE OIL & GAS, INC.		
Api:	039-06222		
County:	39		
Permit:	6222		
Recvd date:	20090126	Issue date:	20090129

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Permitid:	3906222	Permit id:	Not Reported
Site id:	WVOG80000025385		

4			
North		OIL_GAS	WVOG80000094595
1/2 - 1 Mile			
Well x:	446846		
Well y:	4247902.4		
Geosource:	ERIS-LL	Status:	Active Well
Type:	Gas Well	Use:	Production
Depth:	Shallow greater than 3,000 feet	Rig type:	Rotary Rig
Farm name:	LANE, RONALD, INC.		
Well numbr:	R. LANE 2		
Resp party:	RESERVE OIL & GAS, INC.		
Api:	039-05985		
County:	39		
Permit:	5985		
Recvd date:	20070308	Issue date:	20070308
Permitid:	3905985	Permit id:	Not Reported
Site id:	WVOG80000094595		

5			
NW		OIL_GAS	WVOG80000084815
1/2 - 1 Mile			
Well x:	446122.1		
Well y:	4247841.5		
Geosource:	ERIS-LL	Status:	NA
Type:	Gas Well	Use:	Production
Depth:	Shallow greater than 3,000 feet	Rig type:	Rotary Rig
Farm name:	RONALD LANE, INCORPORATED		
Well numbr:	R. LANE 1		
Resp party:	RESERVE OIL & GAS, INC.		
Api:	039-06156		
County:	39		
Permit:	6156		
Recvd date:	20080715	Issue date:	20080722
Permitid:	3906156	Permit id:	Not Reported
Site id:	WVOG80000084815		

6			
NNW		OIL_GAS	WVOG80000019304
1/2 - 1 Mile			
Well x:	446574.7		
Well y:	4248286.5		
Geosource:	ERIS-LL	Status:	Active Well
Type:	Gas Well	Use:	Production
Depth:	Shallow greater than 3,000 feet	Rig type:	Rotary Rig
Farm name:	RONALD LANE, INC.		
Well numbr:	R. LANE 4		
Resp party:	RESERVE OIL & GAS, INC.		
Api:	039-06003		
County:	39		
Permit:	6003		
Recvd date:	20070515	Issue date:	20070523

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Permitid:	3906003	Permit id:	Not Reported
Site id:	WVOG80000019304		

**7
SE
1/2 - 1 Mile**

OIL_GAS WVOG80000071048

Well x:	447940		
Well y:	4245553		
Geosource:	ERIS-LL	Status:	Plugged
Type:	Not Available	Use:	NA
Depth:	Not Available	Rig type:	NA
Farm name:	SWADLEY, FRED & CHRISTINE		
Well numbr:	1		
Resp party:	ROSS & WHARTON GAS CO INC		
Api:	039-04351		
County:	39		
Permit:	4351		
Recvd date:	Unknown	Issue date:	19870227
Permitid:	3904351	Permit id:	Not Reported
Site id:	WVOG80000071048		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

EPA Region 3 Statistical Summary Readings for Zip Code: 25311

Number of sites tested: 66.

Maximum Radon Level: 9.5 pCi/L.

Minimum Radon Level: 0.3 pCi/L.

<u>pCi/L</u> <u><4</u>	<u>pCi/L</u> <u>4-10</u>	<u>pCi/L</u> <u>10-20</u>	<u>pCi/L</u> <u>20-50</u>	<u>pCi/L</u> <u>50-100</u>	<u>pCi/L</u> <u>>100</u>
51 (77.27%)	15 (22.73%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

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.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R 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. 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).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

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 Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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.

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

West Virginia Water Well Information

Source: Bureau of Public Health

Telephone: 304-558-6765

OTHER STATE DATABASE INFORMATION

West Virginia Oil and Gas Well Database

Source: Department of Environmental Protection

Telephone: 304-926-0450

Oil and Gas well locations in the state.

RADON

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.

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

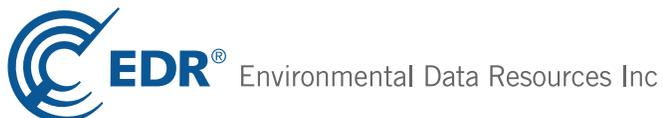
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Freedom Industries

1015 Barlow Dr
Charleston, WV 25311

Inquiry Number: 4141397.2s
November 21, 2014

The EDR Radius Map™ Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

GeoCheck - Not Requested

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

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EXECUTIVE SUMMARY

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) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1015 BARLOW DR
KANAWHA County, WV 25311

COORDINATES

Latitude (North): 38.3681000 - 38° 22' 5.16"
Longitude (West): 81.6065000 - 81° 36' 23.40"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 447016.6
UTM Y (Meters): 4246625.5
Elevation: 617 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38081-C5 CHARLESTON EAST, WV
Most Recent Revision: 1996

North Map: 38081-D5 BIG CHIMNEY, WV
Most Recent Revision: 1976

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20110812
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
1015 BARLOW DR 1015 BARLOW DR CHARLESTON, WV 25311	ERNS	N/A
1015 BARLOW DRIVE 1015 BARLOW DRIVE CHARLESTON, WV	ERNS	N/A
1015 BARLOW ST 1015 BARLOW ST CHARLESTON, WV 25311	ERNS	N/A

EXECUTIVE SUMMARY

ETOWAH RIVER TERMINAL 1015 BARLOW DR - SITE B CHARLESTON, WV 25311	RCRA-CESQG	WVR000502559
ETOWAH RIVER TERMINAL LLC 1015 BARLOW DRIVE CHARLESTON, WV 25311	NPDES	N/A
PENNZOIL PRODUCTS CO 1015 BARLOW DR CHARLESTON, WV 25311	LUST UST SPILLS INST CONTROL VCP	N/A
PENNZOIL PRODUCTS CO 1015 BARLOW DR CHARLESTON, WV	RGA LUST	N/A
1015 BARLOW RD 1015 BARLOW RD CHARLESTON, WV	ERNS	N/A
1015 BARLOW RD 1015 BARLOW RD CHARLESTON, WV	ERNS	N/A
ETOWAH RIVER TERMINAL, LLC 1015 BARLOW DR. CHARLESTON, WV 25311	US AIRS	N/A
PENNZOIL QUAKER STATE COMPANY 1015 BARLOW DR CHARLESTON, WV 25311	RCRA NonGen / NLR	WVD055573745
ETOWAH RIVER TERMINAL LLC 1015 BARLOW DR CHARLESTON, WV 25311	FINDS	N/A

EXECUTIVE SUMMARY

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

Federal NPL site list

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

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

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

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

State- and tribal - equivalent CERCLIS

SHWS..... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

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

SWF/LF..... List of M.S.W. Landfills/Transfer Station Listing

EXECUTIVE SUMMARY

LCP..... Landfill Closure Program

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST..... Underground Storage Tanks on Indian Land

FEMA UST..... Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

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

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

CDL..... Drug Lab Site Locations

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

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

Other Ascertainable Records

DOT OPS..... Incident and Accident Data

DOD..... Department of Defense Sites

CONSENT..... Superfund (CERCLA) Consent Decrees

ROD..... Records Of Decision

UMTRA..... Uranium Mill Tailings Sites

US MINES..... Mines Master Index File

TRIS..... Toxic Chemical Release Inventory System

EXECUTIVE SUMMARY

TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
RAATS.....	RCRA Administrative Action Tracking System
RMP.....	Risk Management Plans
UIC.....	Underground Injection Wells
DRYCLEANERS.....	Listing of Drycleaner Locations
AIRS.....	Permitted Facility and Emissions Listing
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
Financial Assurance.....	Financial Assurance Information Listing
LEAD SMELTERS.....	Lead Smelter Sites
COAL ASH DOE.....	Steam-Electric Plant Operation Data
PCB TRANSFORMER.....	PCB Transformer Registration Database
2020 COR ACTION.....	2020 Corrective Action Program List
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PRP.....	Potentially Responsible Parties
COAL ASH.....	Coal Ash Landfills

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat.....	EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners.....	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF.....	Recovered Government Archive Solid Waste Facilities List
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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.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

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 Commerce, Labor & Environmental Resources.

A review of the UST list, as provided by EDR, and dated 09/03/2014 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SMITH CONCRETE	2262 PENNSYLVANIA AVE	NW 0 - 1/8 (0.125 mi.)	13	28

ADDITIONAL ENVIRONMENTAL RECORDS

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 06/10/2014 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>RUSSO FRANK AUTO SVC CTR</i>	<i>2120 PENNSYLVANIA AVE</i>	<i>WSW 1/8 - 1/4 (0.228 mi.)</i>	<i>14</i>	<i>29</i>

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 06/06/2014 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

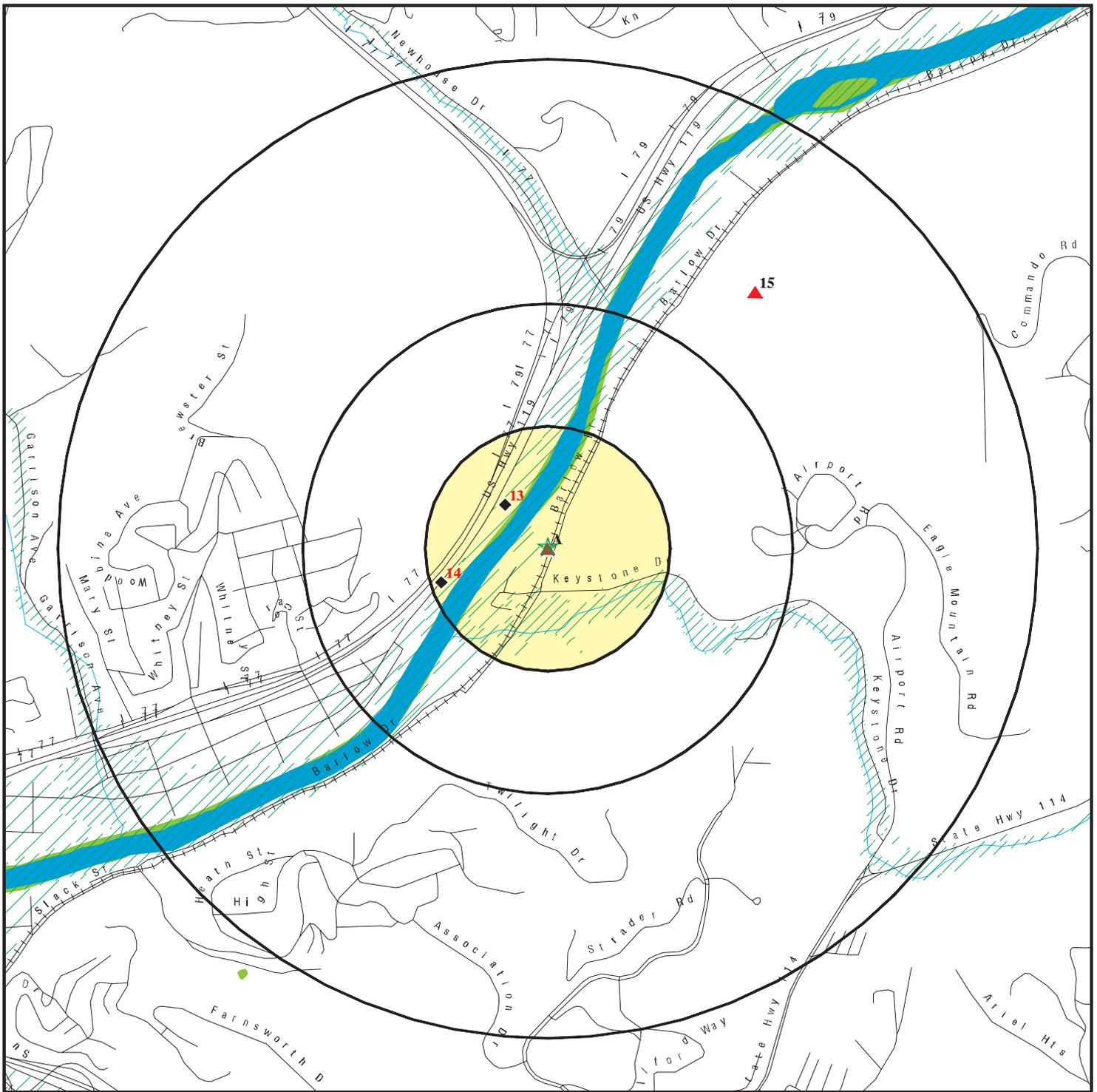
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
YEAGER AIR NATIONAL GUARD		NE 1/2 - 1 (0.674 mi.)	15	31

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

<u>Site Name</u>	<u>Database(s)</u>
KEYSTONE DRIVE SITE	CERC-NFRAP
KC'S PIZZA FORMER HIS PLAYLAND	LUST, UST

OVERVIEW MAP - 4141397.2S



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

■ National Priority List Sites

■ Dept. Defense Sites

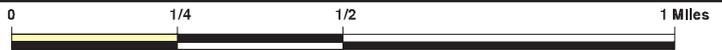
■ Indian Reservations BIA

■ Oil & Gas pipelines from USGS

■ 100-year flood zone

■ 500-year flood zone

■ National Wetland Inventory

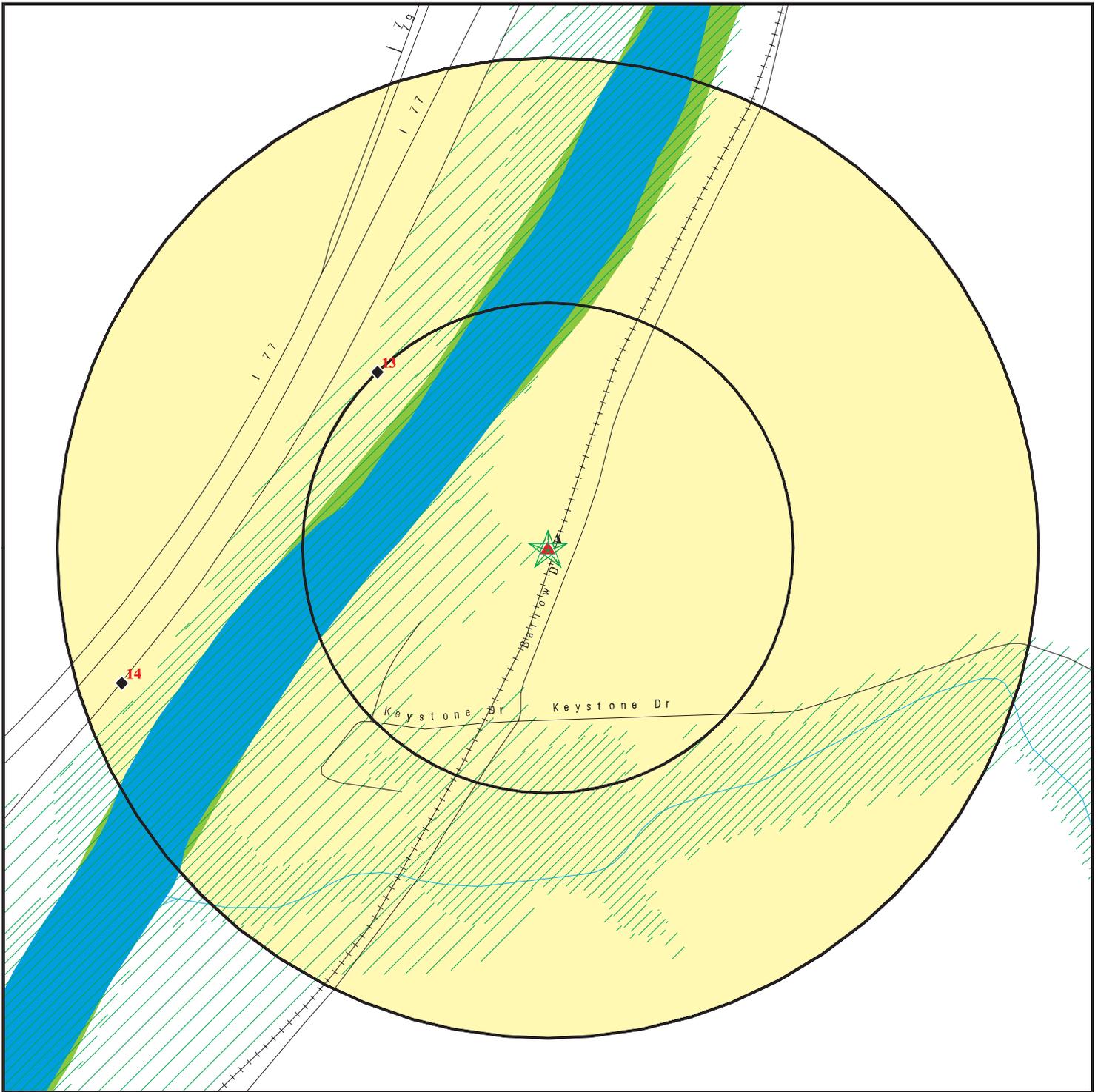


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

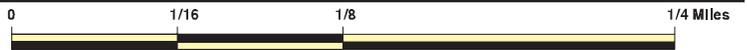
SITE NAME: Freedom Industries
 ADDRESS: 1015 Barlow Dr
 Charleston WV 25311
 LAT/LONG: 38.3681 / 81.6065

CLIENT: ARCADIS U.S., Inc.
 CONTACT: Chris Richardson
 INQUIRY #: 4141397.2s
 DATE: November 21, 2014 11:53 am

DETAIL MAP - 4141397.2S



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites



- Indian Reservations BIA
- ▲ Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Freedom Industries
 ADDRESS: 1015 Barlow Dr
 Charleston WV 25311
 LAT/LONG: 38.3681 / 81.6065

CLIENT: ARCADIS U.S., Inc.
 CONTACT: Chris Richardson
 INQUIRY #: 4141397.2s
 DATE: November 21, 2014 11:54 am

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250	1	0	0	NR	NR	NR	1
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP	5	NR	NR	NR	NR	NR	5
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
LCP	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500	1	0	0	0	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST	0.250	1	1	0	NR	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500	1	0	0	0	NR	NR	1
State and tribal voluntary cleanup sites								
VCP	0.500	1	0	0	0	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	1	NR	NR	NR	NR	NR	1
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	0	1	NR	NR	NR	2
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	1	NR	1
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NPDES	TP	1	NR	NR	NR	NR	NR	1
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	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
Financial Assurance	TP		NR	NR	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
US AIRS	TP	1	NR	NR	NR	NR	NR	1
COAL ASH	0.500		0	0	0	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST	TP	1	NR	NR	NR	NR	NR	1
RGA LF	TP		NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ETOWAH RIVER TERMINAL (Continued)

1005906367

time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: DENNIS P FARRELL
Owner/operator address: 1015 BARLOW DR - SITE B
CHARLESTON, WV 25311

Owner/operator country: Not reported
Owner/operator telephone: (304) 755-5737
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 11/30/2001
Owner/Op end date: Not reported

Owner/operator name: DENNIS P FARRELL
Owner/operator address: 1015 BARLOW DR - SITE B
CHARLESTON, WV 25311

Owner/operator country: US
Owner/operator telephone: (304) 755-5737
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 11/30/2001
Owner/Op end date: Not reported

Owner/operator name: MICHAEL BURDETTE
Owner/operator address: 1015 BARLOW DRIVE
CHARLESTON, WV 25323

Owner/operator country: US
Owner/operator telephone: 304 720-8065
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/02/2011
Owner/Op end date: Not reported

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
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used 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: 09/22/2010
Site name: ETOWAH RIVER TERMINAL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ETOWAH RIVER TERMINAL (Continued)

1005906367

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 09/10/2007

Site name: ETOWAH RIVER TERMINAL

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 09/19/2006

Site name: ETOWAH RIVER TERMINAL

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/13/2006

Site name: ETOWAH RIVER TERMINAL

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 08/21/2002

Site name: ETOWAH RIVER TERMINAL

Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 07/09/2008

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Not reported

Date achieved compliance: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ETOWAH RIVER TERMINAL (Continued)

1005906367

Evaluation lead agency: State

**A5
Target
Property**

**ETOWAH RIVER TERMINAL LLC
1015 BARLOW DRIVE
CHARLESTON, WV 25311**

**NPDES S108040114
N/A**

Site 5 of 12 in cluster A

**Actual:
617 ft.**

NPDES:

Permit ID: WVG610920
Contact Name: JOHN HUTCHINSON, TERMINAL MGR.
Contact Telephone: 3045522119
Contact Street: PO BOX 713
Contact Street2: Not reported
Contact City: Not reported
Contact State: WV
Contact Zip Code: 25323
Responsible Party Name: ETOWAH RIVER TERMINAL LLC
Permit Type Table Code: Industrial
Permit Sub Type Code: SWI
Expire Date: 03/31/2014
Sic Code: 5169
Priority Flag: N
Design Flow Quantity: Not reported
Average Flow Quantity: 0.008319
Disturbed Acres: Not reported
Extension Date: Not reported
Number of Customers: Not reported
Number Injection Point: Not reported
Individual General SW: General
Lat/Long(DMS): 38 22 6.0000 / 81 36 27.0000

Permit ID: WVG610920
Contact Name: JOHN HUTCHINSON, TERMINAL MGR.
Contact Telephone: 3045522119
Contact Street: PO BOX 713
Contact Street2: Not reported
Contact City: Not reported
Contact State: WV
Contact Zip Code: 25323
Responsible Party Name: ETOWAH RIVER TERMINAL LLC
Permit Type Table Code: Industrial
Permit Sub Type Code: SWI
Expire Date: 03/31/2014
Sic Code: 5171
Priority Flag: Y
Design Flow Quantity: Not reported
Average Flow Quantity: 0.008319
Disturbed Acres: Not reported
Extension Date: Not reported
Number of Customers: Not reported
Number Injection Point: Not reported
Individual General SW: General
Lat/Long(DMS): 38 22 6.0000 / 81 36 27.0000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A6
Target
Property

PENNZOIL PRODUCTS CO
1015 BARLOW DR
CHARLESTON, WV 25311

LUST
UST
SPILLS
INST CONTROL
VCP

U003436561
N/A

Site 6 of 12 in cluster A

Actual:
617 ft.

LUST:

Facility ID: 2-002501
Leak Number: 90-062
Priority: Groundwater but no known drinking water contamination
Project Manager: Long, Dave
Confirmed Release Date: 06/28/1990
Cleanup Initiated Date: 07/31/1990
Cleanup Complete Date: 09/26/2013
EDR Link ID: 2-002501

UST:

Facility ID: 2002501
Owner: PENNZOIL PRODUCTS CO
Owner Address: PO BOX 3329
Owner Address 2: Not reported
Owner City,St,Zip: CHARLESTON, WV 25333 NA
Owner Telephone: (304) 342-8161

Tank ID: D1
Tank Status: Permanently Out of Service
Tank Substance: Gasoline
Tank Capacity: 2000
Date Last Used: 12/01/1988
Date Closed: 12/01/1988
Closure Status: Tank removed from ground
Tank Material: Asphalt Coated or Bare Steel
Piping Material: Unprotected Steel
Overfill Installed: No
Installed Spill Protection: No
Cathodic Protection Method: No

Tank ID: D2
Tank Status: Permanently Out of Service
Tank Substance: Diesel
Tank Capacity: 3000
Date Last Used: 12/01/1988
Date Closed: 12/01/1988
Closure Status: Tank removed from ground
Tank Material: Asphalt Coated or Bare Steel
Piping Material: Unprotected Steel
Overfill Installed: No
Installed Spill Protection: No
Cathodic Protection Method: No

WV SPILLS:

Date: Not reported
Facility Type: Industrial
Facility/Transporter: Not reported
Initial/followup: Not reported
Person Completing Form: Not reported
Caller: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENNZOIL PRODUCTS CO (Continued)

U003436561

Title:	Not reported
Phone:	Not reported
Date Of Incident:	02/20/14
Time Of Incident:	19:12
Duration Of Incident:	Not reported
Spill Or Release:	Not reported
Spill Confined To Facility:	Not reported
Entering Atmosphere:	Not reported
LEPC Notified:	Not reported
Is Spill Threat Navig Waterway:	Not reported
Type Of Incident:	Air Release/Burning
Type Of Container:	Not reported
Cause Of Incident:	Not reported
Chemical Name:	LICORICE ODOR
CAS Number:	Not reported
Reportable Quantity:	Not reported
Characteristics Of Material:	Not reported
Id Number:	Not reported
Hazards Presented By Spill/r:	No
Amount Spilled/released:	UNKNOWN
Amount Could Be Spill/released:	Not reported
Nearest Populated Area:	Not reported
Perimeter/area Evac:	Not reported
Number Of People Evac:	Not reported
Shelter In Place:	Not reported
Number Dead/injured:	Not reported
Highway/road Blocked:	Not reported
Route/name:	Not reported
Material Entering:	Not reported
Stream Threatened:	Not reported
Stream Name:	Not reported
Shipper Contacted:	Not reported
Transporter:	Not reported
Manufacturer:	Not reported
Agencies On Scene:	Not reported
Resources Needed/used:	Not reported
Cleanup Completed:	Not reported
Comments:	Not reported
NSEQ:	14030
Name:	GEORGE KERR
Call Back No:	304-965-6861
Responsible Party:	FREEDOM INDUSTRIES
Detail:	CALLER COMPLAINED OF SMELLING LICORICE ODOR COMING FROM FREEDOM INDUSTRIES LAST NIGHT & TONIGHT AS HE DROVE BY. CALLER COMPLAINED THAT IF IT IS IN THE AIR THEN IT IS IN THE WATER. HE WANTS DEP TO CALL HIM.
Fishkill:	No
Stream:	NO
Back Online:	Not reported
Bypass Begin Date:	Not reported
Bypass Online Date:	Not reported
Add Information:	Not reported
Spill Received Date:	2/20/2014
Spill Received Time:	7:12 PM
Received By:	Wanda Spradling
Referred Date:	2/21/2014
Referred Time:	9:00 AM
Entry Date:	2/20/2014 8:27:27 PM

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENNZOIL PRODUCTS CO (Continued)

U003436561

Recorded By: BARBARA SMITH
Homeland Security Emergency Management Ref No:4371
Spill Add Information: Not reported
Create User Id: SmithB34
Create Date: 2/20/2014 8:27:27 PM
Last Update User Id: Not reported
Last Update Date: 2/21/2014 9:54:50 AM
HSEM Add Information: NOTIFIED TODD SHREWSBURY (DAQ).
Permit No: Not reported
Referred To: Todd Shrewsbury
Version: 2
Read Date: Not reported
Read Time: Not reported
HSEM Ref Sub: A
Complaint: Complaint

Date: Not reported
Facility Type: Industrial
Facility/Transporter: Not reported
Initial/followup: Not reported
Person Completing Form: Not reported
Caller: Not reported
Title: Not reported
Phone: Not reported
Date Of Incident: 6/12/2014
Time Of Incident: 16:00
Duration Of Incident: Not reported
Spill Or Release: Not reported
Spill Confined To Facility: Not reported
Entering Atmosphere: Not reported
LEPC Notified: Not reported
Is Spill Threat Navig Waterway: Not reported
Type Of Incident: Industrial Spill
Type Of Container: Not reported
Cause Of Incident: Not reported
Chemical Name: MCHM
CAS Number: Not reported
Reportable Quantity: Not reported
Characteristics Of Material: Not reported
Id Number: 20-12372
Hazards Presented By Spill/r: 1
Amount Spilled/released: unknown
Amount Could Be Spill/released: Not reported
Nearest Populated Area: Not reported
Perimeter/area Evac: Not reported
Number Of People Evac: Not reported
Shelter In Place: Not reported
Number Dead/injured: Not reported
Highway/road Blocked: Not reported
Route/name: Not reported
Material Entering: Not reported
Stream Threatened: Not reported
Stream Name: Not reported
Shipper Contacted: Not reported
Transporter: Not reported
Manufacturer: Not reported
Agencies On Scene: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENNZOIL PRODUCTS CO (Continued)

U003436561

Resources Needed/used: Not reported
Cleanup Completed: **Not reported**
Comments: Not reported
NSEQ: 15137
Name: Mark Welch
Call Back No: 412-498-8258
Responsible Party: Freedom Industry
Detail: Caller said that a very low level of MCHM is detected in the water as per report of DEP inspector Sandy Musser
Fishkill: 2
Stream: unknown
Back Online: Not reported
Bypass Begin Date: Not reported
Bypass Online Date: Not reported
Add Information: Not reported
Spill Received Date: 6/12/2014
Spill Received Time: 6:17:00 PM
Received By: Larue
Referred Date: 6/13/2014
Referred Time: 8:19:00 AM
Entry Date: 6/12/2014
Recorded By: Imbeach
Homeland Security Emergency Management Ref No:12372
Spill Add Information: NCR Report # 1085727 received: Caller is reporting a potential release of water w/ trace amts of MCHM from a ditch/trench that holds ground water when the sump pump couldn't keep up w/ the rain water & possibly over flowed onto the ground.
Create User Id: BEACHL58
Create Date: 2014-06-12 00:00:00
Last Update User Id: LarueT34
Last Update Date: 2014-06-13 00:00:00
HSEM Add Information: Reported to Mr. Walt Ivy.
Permit No: Not reported
Referred To: Hackney
Version: 4
Read Date: 6/13/2014
Read Time: 8:22:00 AM
HSEM Ref Sub: A
Complaint: 2
Date: Not reported
Facility Type: Other
Facility/Transporter: Not reported
Initial/followup: Not reported
Person Completing Form: Not reported
Caller: Not reported
Title: Not reported
Phone: Not reported
Date Of Incident: 6/13/2014
Time Of Incident: 5:30 PM
Duration Of Incident: Not reported
Spill Or Release: Not reported
Spill Confined To Facility: Not reported
Entering Atmosphere: Not reported
LEPC Notified: Not reported
Is Spill Threat Navig Waterway: Not reported
Type Of Incident: Industrial Spill

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENNZOIL PRODUCTS CO (Continued)

U003436561

Type Of Container: Not reported
Cause Of Incident: Not reported
Chemical Name: MCHM
CAS Number: Not reported
Reportable Quantity: Not reported
Characteristics Of Material: Not reported
Id Number: Not reported
Hazards Presented By Spill/r: 2
Amount Spilled/released: unknown
Amount Could Be Spill/released: Not reported
Nearest Populated Area: Not reported
Perimeter/area Evac: Not reported
Number Of People Evac: Not reported
Shelter In Place: Not reported
Number Dead/injured: Not reported
Highway/road Blocked: Not reported
Route/name: Not reported
Material Entering: Not reported
Stream Threatened: Not reported
Stream Name: Not reported
Shipper Contacted: Not reported
Transporter: Not reported
Manufacturer: Not reported
Agencies On Scene: Not reported
Resources Needed/used: Not reported
Cleanup Completed: Not reported
Comments: Not reported
NSEQ: 15146
Name: Mark Welch
Call Back No: 412-498-8258
Responsible Party: Freedom Industries
Detail: Pump spill from surface water or trench
Fishkill: 3
Stream: Elk River
Back Online: Not reported
Bypass Begin Date: Not reported
Bypass Online Date: Not reported
Add Information: Not reported
Spill Received Date: 6/13/2014
Spill Received Time: 5:30:00 PM
Received By: Donna Ammons
Referred Date: 6/18/2014
Referred Time: 11:15:00 AM
Entry Date: 6/13/2014
Recorded By: rm
Homeland Security Emergency Management Ref No:12465
Spill Add Information: Received NRC Report #1085843
Create User Id: MumphR17
Create Date: 2014-06-13 00:00:00
Last Update User Id: AmmonD76
Last Update Date: 2014-06-18 00:00:00
HSEM Add Information: contacted Walt Ivey by phone at 6:00 PM
Permit No: Not reported
Referred To: Hackney & Wright
Version: 4
Read Date: Not reported
Read Time: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENNZOIL PRODUCTS CO (Continued)

U003436561

HSEM Ref Sub: A
Complaint: 2

INST CONTROL:

Project No.: 04506
Facility Id: 64
Applicant Name: Pennzoil-Quaker State
Approximate Size In Acres: 4.55
Latitude: 38 22' 09" N
Longitude: 81 36' 20" W
Project Manager: Long
Certificate Of Completion Date: December 2004
Certificate Of Completion Acreage: 4.55
Type Of Institutional Control: Land Use Covenant
Name Of Contaminants: Petroleum
Area Name_a: Not reported
Area Address_a: Not reported
Area City_a: Not reported
Area Approximate Size In Acres_a: Not reported
Area Latitude_a: Not reported
Area Longitude_a: Not reported
Area Voluntary Remediation Project #_a: Not reported
Area Project Manger_a: Not reported
Area Certificate Of Completion Date_a: Not reported
Area Certificate Completion Acreage_a: Not reported
Area Type Of Institutional Control _a: Not reported
Area Nature Of Contaminants_a: Not reported
Area Name_b: Not reported
Area Address_b: Not reported
Area City_b: Not reported
Area Approximate Size In Acres_b: Not reported
Area Latitude_b: Not reported
Area Longitude_b: Not reported
Area Voluntary Remediation Project #_b: Not reported
Area Project Manger_b: Not reported
Area Certificate Of Completion Date_b: Not reported
Area Certificate Completion Acreage_b: Not reported
Area Type Of Institutional Control _b: Not reported
Area Nature Of Contaminants_b: Not reported
Area Name_c: Not reported
Area Address_c: Not reported
Area City_c: Not reported
Area Approximate Size In Acres_c: Not reported
Area Latitude_c: Not reported
Area Longitude_c: Not reported
Area Voluntary Remediation Project #_c: Not reported
Area Project Manger_c: Not reported
Area Certificate Of Completion Date_c: Not reported
Area Certificate Completion Acreage_c: Not reported
Area Type Of Institutional Control _c: Not reported
Area Nature Of Contaminants_c: Not reported
Area Name_d: Not reported
Area Address_d: Not reported
Area City_d: Not reported
Area Approximate Size In Acres_d: Not reported
Area Latitude_d: Not reported
Area Longitude_d: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENNZOIL PRODUCTS CO (Continued)

U003436561

Area Voluntary Remediation Project # _d: Not reported
Area Project Manger _d: Not reported
Area Certificate Of Completion Date _d: Not reported
Area Certificate Completion Acreage _d: Not reported
Area Type Of Institutional Control _d: Not reported
Area Nature Of Contaminants_d: Not reported
Area Name_e: Not reported
Area Address_e: Not reported
Area City_e: Not reported
Area Approximate Size In Acres_e: Not reported
Area Latitude_e: Not reported
Area Longitude_e: Not reported
Area Voluntary Remediation Project # _e: Not reported
Area Project Manger_e: Not reported
Area Certificate Of Completion Date_e: Not reported
Area Certificate Completion Acreage_e: Not reported
Area Type Of Institutional Control_e: Not reported
Area Nature Of Contaminants_e: Not reported
Area Name_f: Not reported
Area Address_f: Not reported
Area City_f: Not reported
Area Approximate Size In Acres_f: Not reported
Area Latitude_f: Not reported
Area Longitude_f: Not reported
Area Voluntary Remediation Project #_f: Not reported
Area Project Manger_f: Not reported
Area Certificate Of Completion Date_f: Not reported
Area Certificate Completion Acreage_f: Not reported
Area Type Of Institutional Control _f: Not reported
Area Nature Of Contaminants_f: Not reported
Area Name_g: Not reported
Area Address_g: Not reported
Area City_g: Not reported
Area Approximate Size In Acres_g: Not reported
Area Latitude_g: Not reported
Area Longitude_g: Not reported
Area Voluntary Remediation Project # _g: Not reported
Area Project Manger_g: Not reported
Area Certificate Of Completion Date_g: Not reported
Area Certificate Completion Acreage_g: Not reported
Area Type Of Institutional Control _g: Not reported
Area Nature Of Contaminants_g: Not reported
Area Name_h: Not reported
Area Address_h: Not reported
Area City_h: Not reported
Area Approximate Size In Acres_h: Not reported
Area Latitude_h: Not reported
Area Longitude_h: Not reported
Area Voluntary Remediation Project # _h: Not reported
Area Project Manger_h: Not reported
Area Certificate Of Completion Date_h: Not reported
Area Certificate Completion Acreage_h: Not reported
Area Type Of Institutional Control _h: Not reported
Area Nature Of Contaminants_h: Not reported
Area Name_i: Not reported
Area Address_i: Not reported
Area City_i: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENNZOIL PRODUCTS CO (Continued)

U003436561

Area Approximate Size In Acres _i: Not reported
Area Latitude _i: Not reported
Area Longitude _i: Not reported
Area Voluntary Remediation Project # _i: Not reported
Area Project Manger _i: Not reported
Area Certificate Of Completion Date _i: Not reported
Area Certificate Completion Acreage _i: Not reported
Area Type Of Institutional Control _i: Not reported
Area Nature Of Contaminants _i: Not reported
Area Name _j: Not reported
Area Address _j: Not reported
Area City _j: Not reported
Area Approximate Size In Acres _j: Not reported
Area Latitude _j: Not reported
Area Longitude _j: Not reported
Area Voluntary Remediation Project # _j: Not reported
Area Project Manger _j: Not reported
Area Certificate Of Completion Date _j: Not reported
Area Certificate Completion Acreage _j: Not reported
Area Type Of Institutional Control _j: Not reported
Area Nature Of Contaminants _j: Not reported
Area Name _k: Not reported
Area Address _k: Not reported
Area City _k: Not reported
Area Approximate Size In Acres _k: Not reported
Area Latitude _k: Not reported
Area Longitude _k: Not reported
Area Voluntary Remediation Project # _k: Not reported
Area Project Manger _k: Not reported
Area Certificate Of Completion Date _k: Not reported
Area Certificate Completion Acreage _k: Not reported
Area Type Of Institutional Control _k: Not reported
Area Nature Of Contaminants _k: Not reported
EDR Link ID: 04506

VCP:

Size (Acres): 4.55
Lat/Long: 38 22' 09" N 81 36' 20" W
Vol. Rem Project Number: 04506
Facility Id: 64
Applicant Name: Pennzoil-Quaker State
Approximate Size In Acres: 4.55
Latitude: 38 22' 09" N
Longitude: 81 36' 20" W
Project Manager: Long
Certificate Of Completion Date: December 2004
Certificate Of Completion Acreage: 4.55
Type Of Institutional Control: Land Use Covenant
Name Of Contaminants: Petroleum
Area Name_a: Not reported
Area Address_a: Not reported
Area City_a: Not reported
Area Approximate Size In Acres_a: Not reported
Area Latitude_a: Not reported
Area Longitude_a: Not reported
Area Voluntary Remediation Project #_a: Not reported
Area Project Manger_a: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENNZOIL PRODUCTS CO (Continued)

U003436561

Area Certificate Of Completion Date_a:	Not reported
Area Certificate Completion Acreage_a:	Not reported
Area Type Of Institutional Control _a:	Not reported
Area Nature Of Contaminants_a:	Not reported
Area Name_b:	Not reported
Area Address_b:	Not reported
Area City_b:	Not reported
Area Approximate Size In Acres_b:	Not reported
Area Latitude_b:	Not reported
Area Longitude_b:	Not reported
Area Voluntary Remediation Project #_b:	Not reported
Area Project Manger_b:	Not reported
Area Certificate Of Completion Date_b:	Not reported
Area Certificate Completion Acreage_b:	Not reported
Area Type Of Institutional Control _b:	Not reported
Area Nature Of Contaminants_b:	Not reported
Area Name _c:	Not reported
Area Address _c:	Not reported
Area City_c:	Not reported
Area Approximate Size In Acres_c:	Not reported
Area Latitude_c:	Not reported
Area Longitude_c:	Not reported
Area Voluntary Remediation Project #_c:	Not reported
Area Project Manger_c:	Not reported
Area Certificate Of Completion Date_c:	Not reported
Area Certificate Completion Acreage_c:	Not reported
Area Type Of Institutional Control _c:	Not reported
Area Nature Of Contaminants_c:	Not reported
Area Name_d:	Not reported
Area Address _d:	Not reported
Area City_d:	Not reported
Area Approximate Size In Acres _d:	Not reported
Area Latitude _d:	Not reported
Area Longitude _d:	Not reported
Area Voluntary Remediation Project # _d:	Not reported
Area Project Manger _d:	Not reported
Area Certificate Of Completion Date _d:	Not reported
Area Certificate Completion Acreage _d:	Not reported
Area Type Of Institutional Control _d:	Not reported
Area Nature Of Contaminants_d:	Not reported
Area Name_e:	Not reported
Area Address _e:	Not reported
Area City _e:	Not reported
Area Approximate Size In Acres _e:	Not reported
Area Latitude _e:	Not reported
Area Longitude _e:	Not reported
Area Voluntary Remediation Project # _e:	Not reported
Area Project Manger _e:	Not reported
Area Certificate Of Completion Date _e:	Not reported
Area Certificate Completion Acreage _e:	Not reported
Area Type Of Institutional Control _e:	Not reported
Area Nature Of Contaminants_e:	Not reported
Area Name_f:	Not reported
Area Address _f:	Not reported
Area City_f:	Not reported
Area Approximate Size In Acres_f:	Not reported
Area Latitude_f:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENNZOIL PRODUCTS CO (Continued)

U003436561

Area Longitude_f:	Not reported
Area Voluntary Remediation Project #_f:	Not reported
Area Project Manger_f:	Not reported
Area Certificate Of Completion Date_f:	Not reported
Area Certificate Completion Acreage_f:	Not reported
Area Type Of Institutional Control _f:	Not reported
Area Nature Of Contaminants_f:	Not reported
Area Name _g:	Not reported
Area Address _g:	Not reported
Area City _g:	Not reported
Area Approximate Size In Acres _g:	Not reported
Area Latitude _g:	Not reported
Area Longitude _g:	Not reported
Area Voluntary Remediation Project # _g:	Not reported
Area Project Manger _g:	Not reported
Area Certificate Of Completion Date _g:	Not reported
Area Certificate Completion Acreage _g:	Not reported
Area Type Of Institutional Control _g:	Not reported
Area Nature Of Contaminants _g:	Not reported
Area Name_h:	Not reported
Area Address _h:	Not reported
Area City _h:	Not reported
Area Approximate Size In Acres _h:	Not reported
Area Latitude _h:	Not reported
Area Longitude _h:	Not reported
Area Voluntary Remediation Project # _h:	Not reported
Area Project Manger _h:	Not reported
Area Certificate Of Completion Date _h:	Not reported
Area Certificate Completion Acreage _h:	Not reported
Area Type Of Institutional Control _h:	Not reported
Area Nature Of Contaminants _h:	Not reported
Area Name_i:	Not reported
Area Address _i:	Not reported
Area City _i:	Not reported
Area Approximate Size In Acres _i:	Not reported
Area Latitude _i:	Not reported
Area Longitude _i:	Not reported
Area Voluntary Remediation Project # _i:	Not reported
Area Project Manger _i:	Not reported
Area Certificate Of Completion Date _i:	Not reported
Area Certificate Completion Acreage _i:	Not reported
Area Type Of Institutional Control _i:	Not reported
Area Nature Of Contaminants _i:	Not reported
Area Name_j:	Not reported
Area Address _j:	Not reported
Area City _j:	Not reported
Area Approximate Size In Acres _j:	Not reported
Area Latitude _j:	Not reported
Area Longitude _j:	Not reported
Area Voluntary Remediation Project # _j:	Not reported
Area Project Manger _j:	Not reported
Area Certificate Of Completion Date _j:	Not reported
Area Certificate Completion Acreage _j:	Not reported
Area Type Of Institutional Control _j:	Not reported
Area Nature Of Contaminants _j:	Not reported
Area Name_k:	Not reported
Area Address _k:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

PENNZOIL PRODUCTS CO (Continued)

U003436561

Area City _k: Not reported
 Area Approximate Size In Acres _k: Not reported
 Area Latitude _k: Not reported
 Area Longitude _k: Not reported
 Area Voluntary Remediation Project # _k: Not reported
 Area Project Manger _k: Not reported
 Area Certificate Of Completion Date _k: Not reported
 Area Certificate Completion Acreage _k: Not reported
 Area Type Of Institutional Control _k: Not reported
 Area Nature Of Contaminants _k: Not reported
 Area Nature Of Contaminants _k: Not reported
 EDR Link ID: 04506

**A7
 Target
 Property**

**PENNZOIL PRODUCTS CO
 1015 BARLOW DR
 CHARLESTON, WV**

RGA LUST

**S116367387
 N/A**

Site 7 of 12 in cluster A

**Actual:
 617 ft.**

RGA LUST:

2012	PENNZOIL PRODUCTS CO	1015 BARLOW DR
2011	PENNZOIL PRODUCTS CO	1015 BARLOW DR
2010	PENNZOIL PRODUCTS CO	1015 BARLOW DR
2009	PENNZOIL PRODUCTS CO	1015 BARLOW DR
2008	PENNZOIL PRODUCTS CO	1015 BARLOW DR
2007	PENNZOIL PRODUCTS CO	1015 BARLOW DR
2006	PENNZOIL PRODUCTS CO	1015 BARLOW DR
2005	PENNZOIL PRODUCTS CO	1015 BARLOW DR
2003	PENNZOIL PRODUCTS CO	1015 BARLOW DR
2002	PENNZOIL PRODUCTS CO	1015 BARLOW DR
2000	PENNZOIL PRODUCTS CO	1015 BARLOW DR
1999	PENNZOIL PRODUCTS CO	1015 BARLOW DR
1998	PENNZOIL PRODUCTS CO	1015 BARLOW DR

**A8
 Target
 Property**

**1015 BARLOW RD
 CHARLESTON, WV**

ERNS

**2014085727
 N/A**

Site 8 of 12 in cluster A

**Actual:
 617 ft.**

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A9
Target
Property

1015 BARLOW RD
CHARLESTON, WV

ERNS 2014085843
N/A

Site 9 of 12 in cluster A

Actual:
617 ft.

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A10
Target
Property

ETOWAH RIVER TERMINAL, LLC
1015 BARLOW DR.
CHARLESTON, WV 25311

US AIRS 1016936474
N/A

Site 10 of 12 in cluster A

Actual:
617 ft.

AIRS (AFS):

A11
Target
Property

PENNZOIL QUAKER STATE COMPANY
1015 BARLOW DR
CHARLESTON, WV 25311

RCRA NonGen / NLR 1000323939
WVD055573745

Site 11 of 12 in cluster A

Actual:
617 ft.

RCRA NonGen / NLR:
Date form received by agency: 08/09/2002
Facility name: PENNZOIL QUAKER STATE COMPANY
Facility address: 1015 BARLOW DR
CHARLESTON, WV 25311
EPA ID: WVD055573745
Contact: JOHN HUTCHINSON
Contact address: 1015 BARLOW DR
CHARLESTON, WV 25311
Contact country: US
Contact telephone: (304) 342-8161
Contact email: Not reported
EPA Region: 03
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: PENNZOIL QUAKER STATE COMPANY
Owner/operator address: PO BOX 2967
HOUSTON, TX 77252
Owner/operator country: Not reported
Owner/operator telephone: (713) 546-4000
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Owner/operator name: OPERNAME
Owner/operator address: OPERSTREET
OPERCITY, AK 99999
Owner/operator country: Not reported
Owner/operator telephone: (215) 555-1212
Legal status: Private

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENNZOIL QUAKER STATE COMPANY (Continued)

1000323939

Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: PENNZIOL-QUAKER STATE CO
Owner/operator address: Not reported
Not reported

Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1968
Owner/Op end date: Not reported

Owner/operator name: PENNZIOL-QUAKER STATE CO
Owner/operator address: Not reported
Not reported

Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1968
Owner/Op end date: Not reported

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
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
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: 08/05/2002
Site name: PENNZIOL - QUAKER STATE CO.
Classification: Large Quantity Generator

Date form received by agency: 03/05/2001
Site name: PENNZOIL-QUAKER STATE CO. ETOWHA TRMNL
Classification: Large Quantity Generator

Date form received by agency: 01/04/1999
Site name: PENNZOIL QUAKER STATE COMPANY
Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENNZOIL QUAKER STATE COMPANY (Continued)

1000323939

Waste name: Not Defined

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018

Waste name: BENZENE

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018

Waste name: BENZENE

Facility Has Received Notices of Violations:

Regulation violated: FR - 40 CFR 262.12

Area of violation: Generators - General

Date violation determined: 01/13/1999

Date achieved compliance: 03/08/1999

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 01/21/1999

Enf. disposition status: Not reported

Enf. disp. status date: Not reported

Enforcement lead agency: State

Proposed penalty amount: Not reported

Final penalty amount: Not reported

Paid penalty amount: Not reported

Regulation violated: SR - Section 6.3.5.a.4

Area of violation: Generators - Pre-transport

Date violation determined: 05/17/1991

Date achieved compliance: 02/17/2005

Violation lead agency: State

Enforcement action: FINAL 3008(A) COMPLIANCE ORDER

Enforcement action date: 11/09/1990

Enf. disposition status: Not reported

Enf. disp. status date: Not reported

Enforcement lead agency: State

Proposed penalty amount: Not reported

Final penalty amount: 10000

Paid penalty amount: 10000

Regulation violated: SR - Section 6.1.2

Area of violation: Generators - General

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENNZOIL QUAKER STATE COMPANY (Continued)

1000323939

Date violation determined: 05/17/1990
Date achieved compliance: 03/08/1999
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/09/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: SR - Section 6.1.3.a
Area of violation: Generators - General
Date violation determined: 05/17/1990
Date achieved compliance: 11/09/1990
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/09/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: SR - Section 6.3.5.a.2
Area of violation: Generators - Pre-transport
Date violation determined: 05/17/1990
Date achieved compliance: 11/09/1990
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/09/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: SR - Section 4.1.1
Area of violation: Generators - General
Date violation determined: 05/17/1990
Date achieved compliance: 11/09/1990
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/09/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: SR - 6.2.1.a
Area of violation: Generators - Manifest
Date violation determined: 05/17/1990

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENNZOIL QUAKER STATE COMPANY (Continued)

1000323939

Date achieved compliance: 11/09/1990
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/09/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: SR - Section 6.3.5.a
Area of violation: Generators - Pre-transport
Date violation determined: 05/17/1990
Date achieved compliance: 11/09/1990
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/09/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: SR - 6.3.5.a.5
Area of violation: Generators - General
Date violation determined: 05/17/1990
Date achieved compliance: 11/09/1990
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/09/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Evaluation Action Summary:
Evaluation date: 07/11/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/11/2002
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/13/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/08/1999
Evaluation lead agency: State

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

PENNZOIL QUAKER STATE COMPANY (Continued)

1000323939

Evaluation date: 05/29/1991
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
 Area of violation: Not reported
 Date achieved compliance: Not reported
 Evaluation lead agency: State

Evaluation date: 05/17/1990
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
 Area of violation: Generators - General
 Date achieved compliance: 03/08/1999
 Evaluation lead agency: State

Evaluation date: 05/17/1990
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
 Area of violation: Generators - General
 Date achieved compliance: 11/09/1990
 Evaluation lead agency: State

Evaluation date: 05/17/1990
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
 Area of violation: Generators - Pre-transport
 Date achieved compliance: 02/17/2005
 Evaluation lead agency: State

Evaluation date: 05/17/1990
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
 Area of violation: Generators - Manifest
 Date achieved compliance: 11/09/1990
 Evaluation lead agency: State

Evaluation date: 05/17/1990
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
 Area of violation: Generators - Pre-transport
 Date achieved compliance: 11/09/1990
 Evaluation lead agency: State

A12 **ETOWAH RIVER TERMINAL LLC**
Target **1015 BARLOW DR**
Property **CHARLESTON, WV 25311**

FINDS **1005680223**
N/A

Site 12 of 12 in cluster A

Actual:
617 ft.

FINDS:

Registry ID: 110010851541

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ETOWAH RIVER TERMINAL LLC (Continued)

1005680223

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

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.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

HAZARDOUS WASTE BIENNIAL REPORTER

13
NW
< 1/8
0.125 mi.
659 ft.

SMITH CONCRETE
2262 PENNSYLVANIA AVE
CHARLESTON, WV 25303

UST U003797028
N/A

Relative:
Lower

UST:

Facility ID: 2010135
Owner: SMITH CONCRETE CO
Owner Address: RT 1 BOX 74
Owner Address 2: Not reported
Owner City,St,Zip: POCA, WV 25159 NA
Owner Telephone: (304) 755-5000

Actual:
576 ft.

Tank ID: D1
Tank Status: Permanently Out of Service
Tank Substance: Diesel
Tank Capacity: 10000
Date Last Used: 01/01/1994
Date Closed: 11/08/2001
Closure Status: Tank removed from ground
Tank Material: Asphalt Coated or Bare Steel
Piping Material: Unprotected Steel
Overfill Installed: No
Installed Spill Protection: No
Cathodic Protection Method: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

14
WSW
1/8-1/4
0.228 mi.
1203 ft.

RUSSO FRANK AUTO SVC CTR
2120 PENNSYLVANIA AVE
CHARLESTON, WV 25302

RCRA NonGen / NLR 1000583847
FINDS WVD988777397

Relative:
Lower

RCRA NonGen / NLR:

Actual:
595 ft.

Date form received by agency: 05/05/2003
Facility name: RUSSO FRANK AUTO SVC CTR
Facility address: 2120 PENNSYLVANIA AVE
CHARLESTON, WV 25302
EPA ID: WVD988777397
Contact: FRANK RUSSO
Contact address: 2120 PENNSYLVANIA AVE
CHARLESTON, WV 25302
Contact country: US
Contact telephone: (304) 342-2277
Contact email: Not reported
EPA Region: 03
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: OPERNAME
Owner/operator address: OPERSTREET
OPERCITY, AK 99999
Owner/operator country: Not reported
Owner/operator telephone: (215) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported
Owner/operator name: OPERNAME
Owner/operator address: OPERSTREET
OPERCITY, AK 99999
Owner/operator country: Not reported
Owner/operator telephone: (215) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Owner/operator name: DAWSON CAROLYN
Owner/operator address: PO BOX 124
PINCH, WV 25156
Owner/operator country: Not reported
Owner/operator telephone: (304) 965-5365
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Owner/operator name: DAWSON CAROLYN
Owner/operator address: PO BOX 124
PINCH, WV 25156
Owner/operator country: Not reported
Owner/operator telephone: (304) 965-5365

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RUSSO FRANK AUTO SVC CTR (Continued)

1000583847

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

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
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
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: 03/06/1991
Site name: RUSSO FRANK AUTO SVC CTR
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D000
Waste name: Not Defined

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 04/02/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110005559207

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RUSSO FRANK AUTO SVC CTR (Continued)

1000583847

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.

**15
NE
1/2-1
0.674 mi.
3557 ft.**

YEAGER AIR NATIONAL GUARD

**FUDS 1012129483
N/A**

CHARLESTON, WV

**Relative:
Higher**

FUDS:

Federal Facility ID: WV9799F7116
FUDS #: G03WV0001
INST ID: 53783
Facility Name: YEAGER AIR NATIONAL GUARD
City: CHARLESTON
State: WV
EPA Region: 03
County: KANAWHA
Congressional District: 02
US Army District: Louisville District (LRL)
Fiscal Year: 2012
Telephone: 502-315-6768
NPL Status: Not Listed
RAB: Not reported
CTC: 464.8000
Current Owner: Local Government
Current Prog: Not reported
Future Prog: Not reported
Acreage: Not reported

**Actual:
826 ft.**

Description: The site is located at Yeager Airport, 4 miles northeast of Charleston, West Virginia, in Kanawha County. It is currently being used as an Air National Guard Facility. The current owner is Kanawha County.

History: The site was acquired from 1943. It consists of approximately 2 acres. The area was formerly used as a vehicle maintenance areas for the National Guard. There are two proposed projects on the site. The areas of concentration are a vehicle maintenance area and four abandoned Underground Storage Tanks (USTs).

Latitude: 38.3680000000
Longitude: -81.5952000000

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHARLESTON	U003933201	KC'S PIZZA FORMER HIS PLAYLAND	INTERSECTION OF TWILIGHT DR &		LUST, UST
CHARLESTON	1003866422	KEYSTONE DRIVE SITE	KEYSTONE DRIVE	25311	CERC-NFRAP

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/29/2014	Source: EPA
Date Data Arrived at EDR: 10/08/2014	Telephone: N/A
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 10/08/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/19/2015
	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 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

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: 09/29/2014	Source: EPA
Date Data Arrived at EDR: 10/08/2014	Telephone: N/A
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 10/08/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/19/2015
	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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/29/2014	Source: EPA
Date Data Arrived at EDR: 10/08/2014	Telephone: N/A
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 10/08/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/19/2015
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 08/28/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Quarterly

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 Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/21/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/07/2014	Telephone: 703-603-8704
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 10/07/2014
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/19/2015
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 08/28/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/07/2014
Next Scheduled EDR Contact: 01/12/2015
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: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 11/07/2014
Next Scheduled EDR Contact: 01/12/2015
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: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 11/07/2014
Next Scheduled EDR Contact: 01/12/2015
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: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 11/07/2014
Next Scheduled EDR Contact: 01/12/2015
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: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 11/07/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

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: 09/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/19/2014	Telephone: 703-603-0695
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/08/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 12/22/2014
	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: 09/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/19/2014	Telephone: 703-603-0695
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/08/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Varies

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: 08/29/2014	Source: Department of the Navy
Date Data Arrived at EDR: 10/09/2014	Telephone: 843-820-7326
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 11/17/2014
Number of Days to Update: 11	Next Scheduled EDR Contact: 03/02/2015
	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: 09/29/2014	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 09/30/2014	Telephone: 202-267-2180
Date Made Active in Reports: 11/06/2014	Last EDR Contact: 09/30/2014
Number of Days to Update: 37	Next Scheduled EDR Contact: 01/12/2015
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A	Source: Department of Environmental Protection
Date Data Arrived at EDR: N/A	Telephone: 304-926-0455
Date Made Active in Reports: N/A	Last EDR Contact: 11/20/2014
Number of Days to Update: N/A	Next Scheduled EDR Contact: 03/09/2015
	Data Release Frequency: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

SWF/LF: List of M.S.W. Landfills/Transfer Station Listing

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/16/2014	Source: Division of Environmental Protection
Date Data Arrived at EDR: 07/10/2014	Telephone: 304-926-0499
Date Made Active in Reports: 09/08/2014	Last EDR Contact: 09/29/2014
Number of Days to Update: 60	Next Scheduled EDR Contact: 01/12/2015
	Data Release Frequency: Varies

LCP: Landfill Closure Program

The WV DEP's LCAP aids the owners/permittees of landfills that were required to cease operations because of certain statutory closure deadlines for non-composite lined facilities

Date of Government Version: 12/31/2013	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/21/2014	Telephone: 304-926-0499
Date Made Active in Reports: 04/08/2014	Last EDR Contact: 09/08/2014
Number of Days to Update: 18	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks

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: 08/12/2014	Source: Division of Environmental Protection
Date Data Arrived at EDR: 09/04/2014	Telephone: 304-926-0455
Date Made Active in Reports: 11/03/2014	Last EDR Contact: 09/04/2014
Number of Days to Update: 60	Next Scheduled EDR Contact: 12/15/2014
	Data Release Frequency: Semi-Annually

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: 11/04/2014	Source: EPA Region 8
Date Data Arrived at EDR: 11/07/2014	Telephone: 303-312-6271
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 10/27/2014
Number of Days to Update: 10	Next Scheduled EDR Contact: 02/09/2015
	Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 05/22/2014	Source: EPA Region 7
Date Data Arrived at EDR: 08/22/2014	Telephone: 913-551-7003
Date Made Active in Reports: 09/18/2014	Last EDR Contact: 10/27/2014
Number of Days to Update: 27	Next Scheduled EDR Contact: 02/09/2015
	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: 10/06/2014	Source: EPA Region 6
Date Data Arrived at EDR: 10/29/2014	Telephone: 214-665-6597
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 10/27/2014
Number of Days to Update: 19	Next Scheduled EDR Contact: 02/09/2015
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 05/20/2014	Source: EPA Region 10
Date Data Arrived at EDR: 06/10/2014	Telephone: 206-553-2857
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 10/27/2014
Number of Days to Update: 73	Next Scheduled EDR Contact: 02/09/2015
	Data Release Frequency: Quarterly

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: 02/01/2013	Source: EPA Region 1
Date Data Arrived at EDR: 05/01/2013	Telephone: 617-918-1313
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 10/31/2014
Number of Days to Update: 184	Next Scheduled EDR Contact: 02/09/2015
	Data Release Frequency: Varies

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: 11/03/2014	Source: EPA, Region 5
Date Data Arrived at EDR: 11/05/2014	Telephone: 312-886-7439
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 10/27/2014
Number of Days to Update: 12	Next Scheduled EDR Contact: 02/09/2015
	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: 03/01/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2013	Telephone: 415-972-3372
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 10/27/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 02/09/2015
	Data Release Frequency: Quarterly

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

Date of Government Version: 07/30/2014	Source: EPA Region 4
Date Data Arrived at EDR: 08/12/2014	Telephone: 404-562-8677
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 10/27/2014
Number of Days to Update: 10	Next Scheduled EDR Contact: 02/09/2015
	Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

UST: Underground Storage Tank Database
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: 09/03/2014	Source: Division of Environmental Protection
Date Data Arrived at EDR: 09/03/2014	Telephone: 304-926-0495
Date Made Active in Reports: 11/03/2014	Last EDR Contact: 09/02/2014
Number of Days to Update: 61	Next Scheduled EDR Contact: 12/15/2014
	Data Release Frequency: Annually

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).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/20/2014
Date Data Arrived at EDR: 06/10/2014
Date Made Active in Reports: 08/15/2014
Number of Days to Update: 66

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Quarterly

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: 08/14/2014
Date Data Arrived at EDR: 08/15/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 7

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Quarterly

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: 11/04/2014
Date Data Arrived at EDR: 11/07/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 10

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Quarterly

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: 08/20/2014
Date Data Arrived at EDR: 08/22/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 27

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
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: 10/06/2014
Date Data Arrived at EDR: 10/29/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 8

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Semi-Annually

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: 11/03/2014
Date Data Arrived at EDR: 11/05/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 12

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
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)

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
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: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/31/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/10/2014
Next Scheduled EDR Contact: 01/26/2015
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Sites with Institutional Controls

Sites that have institutional controls in place.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 08/26/2014
Date Made Active in Reports: 10/30/2014
Number of Days to Update: 65

Source: Department of Environmental Protection
Telephone: 304-558-2508
Last EDR Contact: 11/20/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Remediation Sites

Sites involved in the Voluntary Remediation Program.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 08/26/2014
Date Made Active in Reports: 10/30/2014
Number of Days to Update: 65

Source: Department of Environmental Protection
Telephone: 304-558-2745
Last EDR Contact: 11/20/2014
Next Scheduled EDR Contact: 03/09/2015
Data Release Frequency: Semi-Annually

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites Listing

Brownfields are abandoned, idle or underused commercial or industrial properties, where the expansion or redevelopment is hindered by real or perceived contamination. Brownfields vary in size, location, age, and past use -- they can be anything from a five-hundred acre automobile assembly plant to a small, abandoned corner gas station.

Date of Government Version: 05/14/2013
Date Data Arrived at EDR: 07/05/2013
Date Made Active in Reports: 08/15/2013
Number of Days to Update: 41

Source: Department of Environmental Protection
Telephone: 304-926-0455
Last EDR Contact: 10/03/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Varies

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: 09/22/2014
Date Data Arrived at EDR: 09/23/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 11/07/2014
Next Scheduled EDR Contact: 01/05/2015
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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

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: 10/24/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 10/29/2014
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/16/2015
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

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: 07/25/2014	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 09/09/2014	Telephone: 202-307-1000
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/03/2014
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/15/2014
	Data Release Frequency: Quarterly

CDL: Drug Lab Site Locations

A listing of clandestine drug lab site locations.

Date of Government Version: 09/26/2014	Source: Department of Environmental Protection
Date Data Arrived at EDR: 10/02/2014	Telephone: 304-926-0499
Date Made Active in Reports: 10/30/2014	Last EDR Contact: 11/17/2014
Number of Days to Update: 28	Next Scheduled EDR Contact: 03/02/2015
	Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

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: 07/25/2014	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 09/09/2014	Telephone: 202-307-1000
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/03/2014
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/15/2014
	Data Release Frequency: No Update Planned

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: 02/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/18/2014	Telephone: 202-564-6023
Date Made Active in Reports: 04/24/2014	Last EDR Contact: 10/27/2014
Number of Days to Update: 37	Next Scheduled EDR Contact: 02/09/2015
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 09/30/2014	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 10/01/2014	Telephone: 202-366-4555
Date Made Active in Reports: 11/06/2014	Last EDR Contact: 10/01/2014
Number of Days to Update: 36	Next Scheduled EDR Contact: 01/12/2015
	Data Release Frequency: Annually

SPILLS: Spills Listing

A listing of spills and releases reported to the Office of Emergency Services, they do not include any TRI information.

Date of Government Version: 08/18/2014	Source: Office of Emergency Services
Date Data Arrived at EDR: 08/20/2014	Telephone: 304-558-5380
Date Made Active in Reports: 10/30/2014	Last EDR Contact: 10/27/2014
Number of Days to Update: 71	Next Scheduled EDR Contact: 02/09/2015
	Data Release Frequency: Varies

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/10/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/02/2014	Telephone: 800-438-2474
Date Made Active in Reports: 09/18/2014	Last EDR Contact: 11/07/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 01/12/2015
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 11/04/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 02/16/2015
	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	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 11/07/2014
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/26/2015
	Data Release Frequency: Semi-Annually

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: 06/06/2014	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 09/10/2014	Telephone: 202-528-4285
Date Made Active in Reports: 09/18/2014	Last EDR Contact: 09/10/2014
Number of Days to Update: 8	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/31/2013	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 01/24/2014	Telephone: Varies
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 09/30/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 01/12/2015
	Data Release Frequency: Varies

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: 11/25/2013	Source: EPA
Date Data Arrived at EDR: 12/12/2013	Telephone: 703-416-0223
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 09/09/2014
Number of Days to Update: 74	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Annually

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 tailings) 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: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011	Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 08/20/2014
Number of Days to Update: 146	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Varies

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: 08/05/2014	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/04/2014	Telephone: 303-231-5959
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 09/04/2014
Number of Days to Update: 74	Next Scheduled EDR Contact: 12/15/2014
	Data Release Frequency: Semi-Annually

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: 12/31/2011	Source: EPA
Date Data Arrived at EDR: 07/31/2013	Telephone: 202-566-0250
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 08/29/2014
Number of Days to Update: 44	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Annually

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 site.

Date of Government Version: 12/31/2006	Source: EPA
Date Data Arrived at EDR: 09/29/2010	Telephone: 202-260-5521
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 09/26/2014
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/05/2015
	Data Release Frequency: Every 4 Years

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/19/2014
Next Scheduled EDR Contact: 03/09/2015
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: 11/19/2014
Next Scheduled EDR Contact: 03/09/2015
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

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: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/31/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/29/2014	Telephone: 202-564-5088
Date Made Active in Reports: 11/06/2014	Last EDR Contact: 10/10/2014
Number of Days to Update: 8	Next Scheduled EDR Contact: 01/26/2015
	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: 07/01/2014	Source: EPA
Date Data Arrived at EDR: 10/15/2014	Telephone: 202-566-0500
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 10/15/2014
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/26/2015
	Data Release Frequency: Annually

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: 07/22/2013	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 08/02/2013	Telephone: 301-415-7169
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 09/08/2014
Number of Days to Update: 91	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Quarterly

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: 10/07/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/08/2014	Telephone: 202-343-9775
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 10/08/2014
Number of Days to Update: 12	Next Scheduled EDR Contact: 01/19/2015
	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: 08/16/2014	Source: EPA
Date Data Arrived at EDR: 09/10/2014	Telephone: (215) 814-5000
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/10/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Quarterly

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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: 08/01/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/27/2014
Next Scheduled EDR Contact: 02/09/2015
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: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/29/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Biennially

UIC: Underground Injection Wells

A listing of underground injection well locations.

Date of Government Version: 10/15/2014
Date Data Arrived at EDR: 10/16/2014
Date Made Active in Reports: 11/10/2014
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 304-926-0499
Last EDR Contact: 10/16/2014
Next Scheduled EDR Contact: 01/26/2015
Data Release Frequency: Varies

DRYCLEANERS: Listing of Drycleaner Locations

A listing of drycleaners which use perchloroethylene.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/20/2014
Date Made Active in Reports: 06/09/2014
Number of Days to Update: 20

Source: Department of Environmental Protection
Telephone: 304-926-0475
Last EDR Contact: 11/17/2014
Next Scheduled EDR Contact: 03/02/2015
Data Release Frequency: Varies

NPDES: Wastewater Discharge Permits Listing

A listing of wastewater discharge permits.

Date of Government Version: 01/19/2010
Date Data Arrived at EDR: 01/21/2010
Date Made Active in Reports: 02/25/2010
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 304-926-0495
Last EDR Contact: 10/20/2014
Next Scheduled EDR Contact: 02/02/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AIRS: Permitted Facility and Emissions Listing

Permitted facility and emissions information listing.

Date of Government Version: 01/29/2014

Date Data Arrived at EDR: 01/29/2014

Date Made Active in Reports: 04/08/2014

Number of Days to Update: 69

Source: Department of Environmental Protection

Telephone: 304-926-0499

Last EDR Contact: 10/27/2014

Next Scheduled EDR Contact: 02/09/2015

Data Release Frequency: Varies

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: 12/31/2005

Date Data Arrived at EDR: 12/08/2006

Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710

Last EDR Contact: 11/07/2014

Next Scheduled EDR Contact: 01/26/2015

Data Release Frequency: Semi-Annually

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: 03/07/2011

Date Data Arrived at EDR: 03/09/2011

Date Made Active in Reports: 05/02/2011

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 615-532-8599

Last EDR Contact: 11/18/2014

Next Scheduled EDR Contact: 02/02/2015

Data Release Frequency: Varies

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: 10/16/2014

Date Data Arrived at EDR: 10/31/2014

Date Made Active in Reports: 11/17/2014

Number of Days to Update: 17

Source: EPA

Telephone: 202-564-2496

Last EDR Contact: 09/29/2014

Next Scheduled EDR Contact: 01/12/2015

Data Release Frequency: Annually

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: 11/14/2014

Next Scheduled EDR Contact: 02/23/2015

Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 10/17/2014
Number of Days to Update: 76	Next Scheduled EDR Contact: 01/26/2015
	Data Release Frequency: Varies

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/16/2014	Source: EPA
Date Data Arrived at EDR: 10/31/2014	Telephone: 202-564-2496
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 09/29/2014
Number of Days to Update: 17	Next Scheduled EDR Contact: 01/12/2015
	Data Release Frequency: Annually

COAL ASH: Coal Ash Landfills

A listing of coal ash landfill site locations.

Date of Government Version: 04/07/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/27/2011	Telephone: 304-926-0499
Date Made Active in Reports: 06/02/2011	Last EDR Contact: 10/14/2014
Number of Days to Update: 36	Next Scheduled EDR Contact: 01/26/2015
	Data Release Frequency: Varies

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/30/2014
Number of Days to Update: 3	Next Scheduled EDR Contact: 01/12/2015
	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 failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2012	Telephone: 703-308-4044
Date Made Active in Reports: 05/25/2012	Last EDR Contact: 11/14/2014
Number of Days to Update: 7	Next Scheduled EDR Contact: 02/23/2015
	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: 09/04/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/04/2014	Telephone: 202-566-1917
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 11/11/2014
Number of Days to Update: 46	Next Scheduled EDR Contact: 03/02/2015
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 06/04/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/12/2014	Telephone: 703-603-8787
Date Made Active in Reports: 07/28/2014	Last EDR Contact: 10/06/2014
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/19/2015
	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 1931 and 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	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 10/31/2014
Number of Days to Update: 83	Next Scheduled EDR Contact: 02/09/2015
	Data Release Frequency: Varies

Financial Assurance: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/05/2013	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/07/2013	Telephone: 304-926-0499
Date Made Active in Reports: 04/05/2013	Last EDR Contact: 09/02/2014
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/15/2014
	Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administered lands of the United States. Lands included are administered 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	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 11/07/2014
Number of Days to Update: 339	Next Scheduled EDR Contact: 01/26/2015
	Data Release Frequency: N/A

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/10/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas 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 US Hist Cleaners: EDR Exclusive Historic Dry 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 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 Division of Environmental Protection in West Virginia.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/20/2014
Number of Days to Update: 203

Source: Division of 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 Division of Environmental Protection in West Virginia.

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: Division of 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.

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/10/2014
Next Scheduled EDR Contact: 01/26/2015
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: 08/01/2014
Date Data Arrived at EDR: 08/07/2014
Date Made Active in Reports: 10/17/2014
Number of Days to Update: 71

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/05/2014
Next Scheduled EDR Contact: 02/16/2015
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/20/2014
Next Scheduled EDR Contact: 02/02/2015
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/13/2014
Number of Days to Update: 29

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/26/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 08/07/2014
Number of Days to Update: 48

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/15/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

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: Day Care Center List

Source: Office of Social Services
Telephone: 304-558-7980

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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Appendix F

Freedom Industries AST
Contents

Freedom Industries, Inc.
Tank Contents January 2014

Item	Description	Reference	On Hand
TB 1070	Lignin	Tank 406	8,512
1010 Blend	Blend Program	Blend Program	
RDC777	RDC777	Tank 393	38,005
Raw-Glycerin	Raw Glycerin	Tank 394	94,141
MCHM	MCHM-PPh	Tank 395	40,870
MCHM	MCHM 944	Tank 396	40,084
MCHM	MCHM/PPH	Tank 397	38,905
FCA 307	Finished Glycerin	Tank 398	73,407
Stepan Glycerin	Raw Glycerin	Tank 399	151,087
Raw-Glycerin	Raw Glycerin	Tank 400	149,045
Raw-Glycerin	Raw Glycerin	Tank 401	342,768
Weak Salt	Weak Salt	Tank 402	102,355
TB 1070	28% Cal Chloride	Tank 403	268,003
35% Cal Chloride	35% Cal Chloride	Tank 404	172,881
38% Cal Chloride	38% Cal Chloride	Tank 405	204,685

Note: This table is adapted from a photograph of Freedom Industries AST Contents which are representative of materials in January 2014. Quantities are uncertain.

<u>Item</u>	<u>Description</u>	<u>Reference</u>	<u>On Hand Gravity Density</u>		
TB1070	LIGNIN	TANK 406	8,512	1.258	10.500
1010 BLEND	BLEND PROGRAM	BLEND PROGRAM		1.262	10.530
RDC 777	RDC 777	TANK 393	38,005	1.028	8.580
RAW- GLYCERIN	RAW GLYCERIN	TANK 394	94,141	1.267	10.570
MCHM*	MCHM-PPH	TANK 395	40,870	0.930	7.760
MCHM	MCHM-944	TANK 396	40,084	0.914	7.627
MCHM-	MCHM/PPH	TANK 397	38,905	0.945	7.890
FCA 3070	FINISHED GLYCERIN	TANK 398	73,407	1.198	10.000
STEPAN GLYCERIN	RAW- GLYCERIN	TANK 399	151,087	1.270	10.600
RAW GLYCERN	RAW GLYCERIN	TANK 400	149,045	1.152	9.610
RAW* GLYCERIN	RAW * GLYCERIN	TANK 401	342,768	1.264	10.550
WEAK SALT	WEAK SALT	TANK 402	102,355	1.154	9.830
TB 1070	28% CAL CHLORIDE	TANK 403	268,003	1.262	10.530
35% CAL CHLORIDE	35% CAL CHLORIDE	TANK 404	172,881	1.342	11.200
38% CAL CHLORIDE	38% CAL CHLORIDE	TANK 405	204,685	1.376	11.480



Appendix G

Resume of Environmental
Professional

Education

Bachelor of Science,
Geology and Mineralogy, The
Ohio State University, 1989

Years of Experience

Total - 23
With ARCADIS – 5

Professional Qualifications

OSHA 8 hr Site Supervisor
Training

OSHA 10 hr Construction
Safety & Health Training

OSHA 40 hr HAZWOPER
Training

Federal Rail Association
Training

MSHA Mine Safety Training,
Part 46 and Part 48

Certified Professional Geologist,
American Institute of
Professional Geologists 2004,
CPG #10786

Radiation Safety Officer
Certified, 2001

Todd J. Aebie

Project Geologist

Mr. Aebie, a Certified Professional Geologist with over 24 years of experience conducting and managing a variety of environmental projects and landfill construction projects in the Midwest. He has performed work assignments requiring an understanding of Resource Conservation and Recovery Act (RCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Spill Prevention Control and Countermeasures (SPCC), and Stormwater Pollution Prevention Plan (SWPPP) regulations and has conducted numerous Phase I and Phase II environmental site assessments. Mr. Aebie has recently worked on an active surface mining reclamation investigation and remediation project requiring his oversight and his knowledge of field soil treatability techniques related to the clean-up.

Mr. Aebie's specific field experience includes low-flow groundwater sampling, soil / sediment sampling, and installation of groundwater wells and piezometers at numerous federal (USAEC), municipal, commercial, and private sites. He is experienced in landfill construction and construction management / oversight projects including construction quality assurance (CQA), installation of gas collection wells and gas conveyance systems, and management /CQA for geosynthetics installation. Mr. Aebie routinely performs the installation of groundwater wells, soil and groundwater sampling and detection monitoring reporting of groundwater at several solid waste landfills and for various clients at different commercial and industrial facilities.

Environmental Site Assessments

Confidential Bank

Project Location

Conducted nine Phase I Site Assessments and reporting for the Bank within a two week period throughout three states in the Midwest. Work entailed a site visit, a search for any records from the facility or property, a search for historic aerial photos, interviews with the property owners, City and County officials, and a written report detailing the findings of the Site Assessment.

Motors Liquidation Company

Moraine, Ohio; Mansfield, Ohio; Parma, Ohio

Conducted seven environmental Phase I Site Assessments for the Motors Liquidation Company as part of the bankruptcy and asset transfers from General Motors to Motors Liquidation Company. The Sites assessments included a former Assembly Facility (4.5 million square feet on 430 acres), a former Stamping Facility (2.9 million square feet on 269 acres), a former Powertrain Assembly Facility (750,000 square feet on 160 acres) and several additional former

automotive facilities. Phase I Assessments included a detailed site inspection, review of historic and current environmental reports for the facilities, review of State, Federal, and local records and databases, interviews with property owners along with City and County Officials.

Confidential Former Munitions Manufacturer
Westerville, Ohio

Conducted Phase I investigative work under the Ohio Voluntary Action Program (VAP) guidance and directives. Work entailed a detailed search for any records from the facility, an extensive detailed and successful search for historic aerial photos of the facility, and an extensive and successful search for former employees of the facility. On the basis of the information gathered in the Phase I, a Work Plan, a detailed Sampling and Analysis Plan, and a Health and Safety Plan were prepared for subsequent field investigations. The work is being conducted for the owner (a Private University) who plans on expanding an equestrian center on the property. Currently a large portion of the property has undergone Ohio VAP certification. The remainder of the Site is awaiting cleanup under the FUDS Program.

Major Cellular Service Provider
West Virginia

Coordinated and conducted more than 25 Phase I environmental Site Assessments for a major cellular phone corporation. The site assessments were conducted over a large, two-state area and involved site visits, review of any previous environmental reports, contacting property owners along with City and County Officials.

Various Clients
Various States

Conducted numerous Phase I and Phase II environmental Site Assessments for a variety of clients at various locations and within several states. Site investigations were conducted on properties which have included active and vacant retail stores, commercial buildings including warehouses and offices, existing and proposed residential developments, active and closed industrial locations along with undeveloped wooded areas and existing farmlands.

Rail Sector

Derailment with Historic Buried Drums
Norfolk Southern, Columbus, OH

Responded to a 16-car derailment (denatured ethanol, corn syrup and grain) 2 miles north of downtown Columbus and immediately south of the Ohio State Fairgrounds, 2 weeks before the start of the State Fair. Worked to support client objectives of plugging and monitoring storm sewers leading from the Site, directed excavation under the railbed the night/morning after the incident to support rebuilding the tracks. Assisted with the investigation and sampling when buried drums not related to the derailment were excavated. Directed remediation and

restoration of adjacent property affected during the cleanup of the spill.

Emergency Environmental Response, Clean-up and Restoration, Train Derailment
CSX Transportation, Inc., Clarksburg, West Virginia

Field managed a staff, and offsite support, in response to a derailment where the locomotive and five coal cars plunged 75 feet down a slope, into a residents yard, next to their house, which released 4,000 gallons of diesel fuel and 500,000 lbs of coal. The diesel fuel leaked into the sub surface and ran overland into the river at the bottom of hill. Coordinated the construction of a roadway into the project site, the removal of over 3,000 tons of soil, rock, debris, confirmatory sampling, and restoration of the property. The Site conditions were extremely challenging as site access was very limited and winter weather conditions hampered site work.

Emergency Environmental Response, Clean-up and Restoration, Train Fuel Spill
CSX Transportation, Inc., Honda Rail Yard, Marysville, Ohio

Field managed the clean-up of over 250 gallons of diesel fuel spilled during fueling. The spill went unreported for over 36 hours, and at that time, the diesel fuel ran into onsite ditches and migrated 1 mile from the spill location. Underflow dams, booms, and vac truck operations stopped the migration of the diesel fuel before it entered an extensive wetlands. Work was completed under the oversight of the Ohio EPA.

Hazardous Waste

CECOS Hazardous Waste Landfill
Wilmington, Ohio

Conducted detailed field investigations as part of a corrective measures study for the closure of a RCRA- Toxic Substances Control Act (TSCA)-regulated hazardous waste landfill. Investigation activities included environmental media sampling in soil, sediment, and water for the detection of heavy metals and volatile organic compounds.

TruGreen Chemlawn, Moyno, RMI Sodium
Various Site Locations, USA

Conducted visual site inspections (VSIs) for numerous RCRA facility assessments (RFA). Assessed current manufacturing operations; equipment and vehicle maintenance and cleaning operations; wastewater treatment systems (sanitary sewers, septic systems, and stormwater runoff associated with storage areas); materials storage (above/underground tanks and pipelines); storage areas, waste products, and disposal methods; and well locations and associated uses.

Air National Guard
Ohio and Indiana

Conducted site investigation activities following RCRA guidance procedures for HAZWRAP at Air National Guard installations in Ohio and Indiana covering spill areas, leaking underground storage tanks, and waste disposal areas. Supervised extensive drilling operations, well installations, and environmental media sampling.

Wright-Patterson Air Force Base
Dayton, Ohio

Directed field activities for a CERCLA site at Wright-Patterson Air Force Base in Ohio. Field activities for the \$5.5- million remedial investigations/feasibility studies (RI/FS) included: soil gas survey, Level B landfill trenching and drilling, rotosonic drilling, groundwater and leachate sampling, leachate gas sampling, surface water and sediment sampling, aquifer slug testing and inspection, and geotechnical evaluation of an existing landfill cap. Coordinated efforts of up to 20 persons in relation to drilling, sampling, and other various activities on a day-to-day basis.

Schatz Federal Bearing State Superfund Site
Poughkeepsie, New York

Assisted in the RI/FS for the Schatz Federal Bearing New York State Superfund site in Poughkeepsie, New York, where polychlorinated biphenyls (PCBs), pesticides, heavy metals, and volatile organic compounds were the major contaminants of concern. Provided oversight of rock NXW wire line coring activities and installation of five bedrock and ten overburden wells.

Confidential Chemical Plant
West Virginia

Assisted in remediation of PCB-contaminated soil at an active chemical plant. Responsibilities included the coordination and disposal by railroad of more than 2,000 tons of PCB-contaminated material. Additional duties included coordination of excavation activities, daily reporting, and scheduling of excavation activities.

United States Army Toxic and Hazardous Materials Agency (USATHAMA)
U.S. Army Depot, Kentucky

Conducted Level B trenching through abandoned landfills as part of an RFI/CMS for the base closure of a U.S. Army Depot in Kentucky for USATHAMA. More than 3,000 samples from 400 locations were taken from the landfills and storage areas, analyzed, and entered into the USATHAMA Installation Restoration Data Management System (IRDMIS).

United States Army Toxic and Hazardous Materials Agency (USATHAMA)
U.S. Army Depot, Kentucky/Tennessee

Conducted and supervised up to 20 persons daily during extensive drilling operations, including well installation and sampling, as part of an RFI/CMS for a U.S. Army Post in Kentucky/Tennessee for USATHAMA. More than 70 wells, 150 soil borings, and 5,000 samples were collected during the six-month field investigation.

USEPA Region 10
Ohio

Managed all aspects of the Technical Enforcement contract for USEPA Region 10 (TES X program) at the CECOS Landfill, an inactive hazardous waste landfill. Responsibilities included project management, costing, review of RFI, risk assessments, and CMS along with project meetings and other technical and field oversight support on behalf of the USEPA.

Mining Engineering

Existing Copper Mine Site Assessment
New Mexico

Provide engineering support, engineering oversight, and project management of a surface metal contamination from historic smelting operations with ARCADIS. Tasks include SWPPP implementation, air monitoring, construction management, contractor oversight, and lime amendment study. Approximately 159,000 cubic yards of impacted materials removed over a 194 acre area.

Solid Waste Engineering

Phase 2 Design, Construction & Oversight
Erie County Sanitary Landfill, Sandusky, Ohio

Provided office design and construction specifications for the Phase 2 cell construction at the Erie County Sanitary Landfill. Construction inspection included soil/lime mixing and compaction, RSL clay testing and oversight, geosynthetics installation quality assurance/quality control (QA/QC), leachate recirculation piping installation in Subphase 1B, haul road construction, and monitoring well installation for the expansion.

Geosynthetic Installation: Oversight, Quality Assurance/Quality Control
Cincinnati, Ohio

Provided geosynthetics installation quality assurance/quality control (QA/QC) at a large solid waste landfill located in southwest Ohio. The QA/QC oversight included the installation of over 25 acres of plastic including seam testing and project management.

Subphase 1B and Phase 3 Capping, Design and Oversight
Erie County Sanitary Landfill, Sandusky, Ohio

Provided engineering office design and written construction specifications for the Subphase 1B cell construction and Vertical Expansion Phase 3 Capping at the Erie County Sanitary Landfill. Construction inspection included soil/lime mixing and compaction, RSL clay testing and oversight, geosynthetics installation quality assurance/quality control (QA/QC), leachate and methane gas header piping, haul road construction.

Phase 1 and 2, Design and Oversight
Erie County Sanitary Landfill, Sandusky, Ohio

Provided engineering office design and written construction specifications for the Phase 1 and 2 design and construction oversight at the Erie County Sanitary Landfill. Oversight entailed the testing and oversight of a limed amended soil berm (greater than 250,000 cubic yards for strength and moisture requirements), construction of cell Subphase 1A, including RSL placement and testing, leachate piping, associated leachate storage tank farm construction, drainage channels and haul roads.

Soil Excavation and Drying Design and Oversight
Erie County Sanitary Landfill, Sandusky, Ohio

Provided engineering office design and written construction specifications for soil drying and retention basin construction oversight at the Erie County Sanitary Landfill. Provided construction oversight for the excavation and soil drying of over 100,000 cubic yards (cy) of soil in preparation for additional landfill construction. A retention basin was constructed from the areas where the soil was excavated. Soil was excavated and "tracked" by unit, following Ohio Environmental Protection Agency (EPA) regulations on permeability of soils for use in construction of an RSL.

Soils Investigation

Erie County Sanitary Landfill, Sandusky, Ohio

Completed extensive investigation of soils at the Erie County Landfill. Soils work was completed for future use considerations of the soils for upcoming construction projects. Soils were sampled, logged, and shipped for analysis to a certified soils lab.

Geosynthetics CQA, Confidential Client
Ashtabula, Ohio

Assisted in the project team leadership and the health and safety supervisor role for geosynthetics QA for approximately 90 acres of geosynthetics including geomembrane, geosynthetic clay liner (GCL), geocomposite, and geotextile.

Annual Operational Report

Erie County Sanitary Landfill, Sandusky, Ohio

Prepared annual operational reports for municipal solid waste facility including groundwater potentiometric mapping and capacity calculations.