



Brickhouse Environmental

**PHASE I
ENVIRONMENTAL SITE ASSESSMENT
881 SOUTH FIVE POINTS ROAD
WEST CHESTER, PENNSYLVANIA 19382
WEST GOSHEN TOWNSHIP, CHESTER COUNTY**

**PREPARED FOR:
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JANUARY 4, 2016

BE PROJECT NO. 14-3059-0

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1.0 EXECUTIVE SUMMARY

Brickhouse Environmental has conducted a Phase I Environmental Site Assessment (ESA) of the property located at 881 South Five Points Road, West Chester, Pennsylvania, (the Site). The Phase I ESA was conducted in accordance with Standard Practice E1527-13 of the American Society for Testing and Materials (ASTM), updated in November 2013. Any exceptions to or deletions from this practice are described in Section 7.0 of this report. The Assessment was prepared for Bentley Communities, LP, (Bentley) who is the user of this report.

The purpose of the Phase I ESA was to conduct “All Appropriate Inquiry” into the previous ownership and uses of the property consistent with good commercial and customary practice as defined by 42 U.S.C. 9601(35)(B) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

The property is identified as Chester County tax parcel 52-6-22. The property is comprised of approximately 10 acres of land located along the east side of South Five Points Road at the intersection of Little Shiloh Road in West Goshen Township. The property is currently under residential use and is improved with three homes and a horse barn. The Site is surrounded by residential properties. See Figures 1 through 3 in Appendix A and Site photographs in Appendix B.

The Site was improved with a residential structure dating back to 1762. A review of historic aerial photographs from 1950 to 2010 revealed that the Site was under residential/agricultural use throughout that time. An area of orderly plantings typical of an orchard was identified on a portion of the Site from 1968 to 1981. Historical reviews revealed that the Site is owned by the Nussbaumer family, who has owned it since 1957 and also operated an apple orchard on the adjacent property (known as Nussex Farms).

Beyond the scope of the ASTM E1527-13, soil samples were collected for laboratory analysis as part of a limited assessment related to historic agricultural operations in the northeast corner of the Site. Four grab soil samples were collected from a depth of 8 to 12 inches below grade for analysis of Arsenic and Lead. One composite soil sample was collected from each of the four grab samples for analysis of herbicides and pesticides. In summary, impacts to soil from the historic application of herbicides and pesticides were not identified by the soil sampling and analysis.

The current property owner (Mr. Chris Nussbaumer) stated that a Phase I ESA and Phase II ESA consisting of a ground penetrating radar scan, were conducted within the last year, however he did not have a copy of the reports. Mr. Nussbaumer reported that the Phase I and Phase II ESA were conducted when the property was proposed for sheriff sale. He reported that the investigations did not identify any environmental issues. While the lack of documentation is identified as a data gap, it is not identified as a significant data gap on the finding and conclusions of this report.



This assessment has revealed no evidence of recognized environmental conditions (RECs), historic RECs (HRECs), or Controlled RECs (CRECs) in connection with the property.

2.0 INTRODUCTION

Brickhouse Environmental was retained by Bentley Communities, LP to conduct a Phase I ESA of the property located at 881 South Five Points Road, West Chester, Pennsylvania, in accordance with our proposal dated November 20, 2015. The property is identified as Chester County tax parcel 52-6-22. The property is comprised of approximately 10 acres of land located along the east side of South Five Points Road at the intersection of Little Shiloh Road in West Goshen Township. The property is currently under residential use and is improved with three homes and a horse barn.

The assessment was performed in accordance with Standard Practice E1527-13 of the ASTM, updated November 2013. This Standard, when followed, constitutes “all appropriate inquiry into the previous ownership and uses of a property consistent with good commercial or customary practice,” as defined by Federal regulations (42 USC 9601 (35)(B) CERCLA). Conducting all appropriate inquiry is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA Liability (the Landowner Liability Protections).

The primary purpose of performing a Phase I ESA is to identify RECs, HRECs, CRECs, and environmental issues that are considered De Minimis Conditions.

RECs are 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.”

HRECs are 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.”

CRECs are 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, 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).”



De Minimis conditions are defined “as conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.”

The assessment included the following Scope of Work:

- User Provided Information: Bentley Communities, LP (Bentley) is the User of this report. Brickhouse Environmental conveyed the User Responsibilities as established by ASTM E1527-13 to Mr. Scott Emerson of Bentley and provided a copy of the AAI User Questionnaire to assist with the documentation of their efforts to satisfy the User Responsibilities. Information provided by the User was used in assessing the likelihood of RECs being present in connection with the property.
- Assessment of Site History: This assessment was conducted to identify previous ownership and uses of the property that might be indicative of RECs. The purpose of the Site History Assessment is to document all obvious uses of the Site from the present, back to the properties first developed use or back to 1940, whichever is earlier. Standard sources established by ASTM E1527-13 were obtained and reviewed. Uses of properties in the surrounding area were also reviewed to the extent that Site research into those properties revealed relevant information in connection with the Site. For this assessment, these sources included aerial photographs, property tax files, recorded land title records, USGS topographic maps, available geology and soils maps, local street directories, local building department records, and zoning/land use records. Sanborn Fire Insurance maps were not available for the Site area.
- Computerized Regulatory Database Search and Agency File Reviews: A computerized environmental regulatory program database report for facilities located within the ASTM specified radius of the Site was obtained from Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut. The databases provide information on Sites located within an ASTM-standard specified approximate minimum search distance pertaining to regulatory databases required by ASTM E1527-13. Information from local agencies pertaining to the Site, including Chester County Recorder of Deeds, Chester County Tax Assessment, and West Goshen Township Municipal files were also reviewed by Brickhouse Environmental.
- Review of Adjoining Land Uses: Adjoining land uses were preliminarily reviewed to assess the potential for environmental impacts on the Site. This review was based on visual observations of adjoining properties during the Site inspection, an aerial photograph review, and a review of a computerized regulatory database report.
- Site Reconnaissance: A walk-through inspection of the property was conducted to observe the current environmental condition of the Site with respect to items such



as underground storage tanks (USTs), hazardous or regulated materials, or other visual indications of environmental conditions that could affect the Site.

- Interviews: Interviews with individuals with knowledge of the Site were conducted to investigate existing and historic conditions. Attempts were made to interview current and previous owners, current and previous occupants, as well as local township/borough and county officials, or other individuals with Site knowledge who are readily available and known to Brickhouse Environmental. Individuals interviewed for this assessment include Mr. Chris Nussbaumer, owner; Ms. Andrea Testa, West Goshen Township Fire Marshal; and Ms. Heidi Hoeger, Chester County Health Department Sewer Enforcement Officer.
- Non-Scope Considerations: Beyond the scope of the ASTM E1527-13, soil samples were collected for laboratory analysis as part of a limited assessment related to historic agricultural operations. Sampling methods and results are provided in Section 7.0.
- Limiting Conditions/Deviations: No significant limiting conditions/ deviations from the scope of ASTM E1527-13 were specified by the client or observed by Brickhouse Environmental.
- Report: Data obtained and evaluated as part of this assessment was used to prepare this Report, which includes the environmental professional's findings, opinions, and conclusions. All documentation and supporting illustrations are appended to this report.

3.0 USER PROVIDED INFORMATION

On December 17, 2015, Mr. Scott Emerson of Bentley (potential purchaser) was provided a Phase I ESA AAI User Questionnaire by Brickhouse Environmental. The purpose of the questionnaire is to reveal any known RECs in relation to the Site by current owners or purchasers. The completed questionnaire, received on December 17, 2015, is included in Appendix C. In summary, the questionnaire states that Mr. Emerson is not aware of any past or present environmental conditions and that the price represents fair market value.

3.1 Previous Environmental Reports

No previous environmental reports were provided to Brickhouse Environmental for the Site. The current property owner (Mr. Chris Nussbaumer) stated that a Phase I ESA and Phase II ESA consisting of a ground penetrating radar scan, were conducted within the last year, however he did not have a copy of the reports. Mr. Nussbaumer reported that the Phase I and Phase II ESA were conducted when the property was proposed for sheriff sale. He reported that the investigations did not identify any environmental issues. While the lack



of documentation is identified as a data gap, it is not identified as a significant data gap on the finding and conclusions of this report.

4.0 RECORDS REVIEW

4.1 Physical Property Data

Brickhouse Environmental conducted a Phase I ESA of the property located at 881 South Five Points Road, West Chester, Pennsylvania. (Refer to Figures 1 through 3 in Appendix A and Site Photographs in Appendix B.) The property is identified as Chester County tax parcel 52-6-22. The property is comprised of approximately 10 acres of land located along the east side of South Five Points Road at the intersection of Little Shiloh Road in West Goshen Township. The property is currently under residential use and is improved with three homes and a horse barn.

4.2 Geography, Geology, Hydrogeology, and Soils

According to the USGS Topographic Quadrangle Map, the Site is located at an elevation of approximately 370 to 390 feet above mean seal level. The Site setting is comprised of a suburban area with primarily residential land uses.

The land surface slopes towards a man-made pond located near the center of the Site, which ultimately drains towards the northeast. The closest perennial stream is the East Branch Chester Creek located approximately ½-mile east of the Site. Properties located to the west are topographically upgradient of the Site, and properties located east, are topographically downgradient of the Site.

According to the Geologic Quadrangle Map of Pennsylvania, the Site is underlain by felsic and intermediate gneiss with a band of pegmatite along the northern boundary of the Site. This felsic and intermediate gneiss is light buff to light pink and fine to medium grained. Primary minerals are quartz, microcline, hornblende, and some biotite (Geyer and Wilshusen, 1982). Pegmatite is a coarse-grained igneous rock mostly found as dikes. Common minerals found in it are quartz, orthoclase, microcline, albite, biotite, and muscovite. Some pegmatites are zoned, having one or more minerals dominant in each zone. The zones are parallel to the walls of the pegmatite. Its thickness varies from a few inches to tens of feet (Geyer and Wilshusen, 1982).

According to the Natural Resource Conservation Service (NRCS) Web Soil Survey, soils on the Site are mapped as Gladstone gravelly loam described as a well-drained soil derived from granite and gneiss.

4.3 Adjoining Land Use

Adjoining land uses were reviewed to preliminarily assess the potential for environmental impacts to the Site. The assessment of adjacent properties was based on



visual observations and land use as depicted by the aerial photographs. In general, the Site is located within a residential setting. Immediately adjacent and relevant area land uses are summarized on Table 1.

TABLE 1: ADJOINING LAND USE SUMMARY

Direction	Description
North	Single family homes on Berwick Drive
East	Single family homes
South	Little Shiloh Road borders the Site to the south. Further south are single family homes
West	South Five Points Road borders the Site to the west. Further west is a residential subdivision.

RECs associated with adjoining properties were not identified.

4.4 Sanborn Fire Insurance Maps Review

Sanborn Fire Insurance Maps were requested from EDR; however coverage was not available for the Site.

4.5 Current and Historic Aerial Photograph Review

Brickhouse Environmental reviewed current and historic aerial photographs of the Site for the years 1950, 1958, 1965, 1968, 1971, 1981, 1992, 1999, 2005, 2008, and 2010 provided by EDR on May 9, 2014 (Appendix D). The results of the review are summarized in Table 2 below.

TABLE 2. AERIAL PHOTOGRAPH REVIEW SUMMARY

Year	Description
1950 – 1958	The Site appears similar to the current conditions but is only improved with two structures in the northern portion of the Site. The pond also appears. Light residential development along with significant farmland are also present.
1965 – 1981	Orderly planting indicative of an orchard appears in the far northeast corner. A third structure appears present in the south end of the Site. A large property to the west also appears with orderly rows.
1992	The plantings no longer appear present on the Site; however plantings still remain on the western property.
1999 – 2010	The Site remains relatively unchanged. Residential construction appears on a portion of the property to the west in 1999 and is fully developed by 2005.

In summary, the aerial photograph review indicates that the Site was improved since at least 1950 with at least two structures. Operations indicative of an orchard appeared in the northeast portion of the Site from 1965 to 1981. The property west of the



Site, opposite South Five Points Road, also appeared as an orchard during this same time period and through 1992. Historically, pesticides containing the metals Arsenic and Lead were often sprayed on fruit trees to prevent damage from insects to the crop. In our experience, this practice can lead to the accumulation of these metals in the soils beneath and surrounding the trees. In order to evaluate this potential impact, a limited soil sampling program was conducted (See Section 7.0). Based on the sampling results, RECs were not identified associated with the historic agricultural operations.

4.6 Current and Historic Topographic Map Review

Historical topographic maps of the West Chester (PA) quadrangle were obtained from the years 1904, 1943, 1954, 1968, 1973, and 1997 provided by EDR on May 9, 2014 (Appendix D).

The topographic maps from 1904 and 1943 depict the Site within an unimproved area with limited residential development. The pond is depicted on the 1954 through 1997 maps, and two structures towards the northern portion of the Site are depicted in the 1968 through 1997 maps. In summary, RECs were not identified during the historic topographic map review.

4.7 City Directory Review

A City Directory abstract was provided by EDR on May 13, 2014 (Appendix D). A City Directory abstract uses the Site address to find available city directory data. Listings for the property and nearby properties were provided for the years 1972, 1980, 1985, 1991, and 2013.

The Site address is listed in the 2013 directory as Kevin Scribner. No other listings are provided in the 2013 directory, and the Site address is not listed in the remaining directories. The property located at 880 South Five Points Road is listed as Nussex Farms from 1972 to 1991. According to available research, the Nussex Farm was an apple orchard located west of the Subject Site between Little Shiloh Road and Westtown Road until it was developed as a housing community in 1999.

RECs were not identified based on the city directory review.

4.8 Other Available Property Records

Information from local agencies pertaining to the Site, including Chester County Recorder of Deeds, Chester County Tax Assessment, and West Goshen Municipal Records were also reviewed by Brickhouse Environmental.



4.8.1 Previous Ownership

Brickhouse Environmental completed a limited deed search for the Site on the Chester County Recorder of Deeds online records database on December 18, 2015. The Site is currently owned by Christopher and Renee Nussbaumer, who acquired the property from Dorothea M. Nussbaumer on April 22, 2003. Dorothea M. Nussbaumer acquired the property from Joachim and Winnifried Nussbaumer and Dorothea Iverson (JWD Associates) on February 19, 1997. Dorothea M. Nussbaumer granted the property to JWD Associates on February 3, 1986. Dorothea Nussbaumer acquired the property in 1957 from Samuel and Doris Maule. Other prior owners include Theodore and Mary Jane Eberhard from 1947 to 1951, Lloyd and Joan Terhune from 1944 to 1951, and Herbert Onyx prior to 1944. The deed records review reveals that the property has been in the Nussbaumer family since 1957, who was the reported owner of the former Nussex Apple Orchard located west of the Subject Site. RECs were not identified based on the historic deed records reviewed.

4.8.2 Local Municipal Records Review

On December 16, 2015, Brickhouse Environmental requested to review Municipal records for the Site at the West Goshen Township Municipal Records Department office. West Goshen Township responded that no environmental issues or files were available for the Site.

4.8.3 State Records Review

The PADEP Activity and Use Limitations (AUL) registry database was viewed from the PADEP webpage on December 17, 2015. The AUL registry contains information from environmental covenants for properties under the Uniform Environmental Covenants Act (UECA). The Site is not listed on the current AUL database.

Brickhouse Environmental conducted a search of the 19382 area zip code on the Pennsylvania eFACTS webpage on December 17, 2015. The Site is not listed on the eFACTS database.

4.9 Environmental Database Review

To further evaluate the regulatory status of the Site and surrounding vicinity, a computerized search of Federal and State/Tribal regulatory databases was conducted. The Environmental Database Report is a screening tool that identifies sites located within a set of ASTM specified approximate minimum search radius, which may present a potential environmental concern. A computerized environmental regulatory program database report for facilities located within the ASTM specified radius of the Site was obtained from Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut on December 16, 2015.



Sites identified within the ASTM standard search radius for the databases are listed in Table 3, followed by a brief summary discussion with respect to their likelihood that each Site could result in migration of contaminants to the property. A detailed description of each database and facility listing is provided within the full EDR report, which is attached, as Appendix E. Brickhouse Environmental does not warrant the accuracy or completeness of the computerized regulatory database report. The report contents are subject to the disclaimer provided within the EDR report.

TABLE 3: REGULATORY DATABASE REPORT SUMMARY

Federal Data Services Searched	ASTM Standard Search Distance	Identified Sites	Sites of Concern	Comments
NPL (National Priorities List)	1 mile	0	0	
NPL Delisted	0.5 mile	0	0	
RCRA TSD (Resource Conservation and Recovery Act - Treatment, Storage, and Disposal Facilities)	0.5 mile	0	0	
CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System)	0.5 mile	0	0	
CERCLIS NFRAP (No Further Remedial Action Planned)	0.5 mile	0	0	
RCRA CORRACTS (RCRA facilities with corrective action reports)	1 mile	0	0	
RCRA non-CORRACTS TSD (Treatment Storage Disposal)	0.5 mile	0	0	
RCRA LQG (Resource Conservation and Recovery Act – Large Quantity Generators)	Site and adjoining properties	0	0	
RCRA SQG (Resource Conservation and Recovery Act – Small Quantity Generators)	Site and adjoining properties	0	0	
RCRA CESQG (Resource Conservation and Recovery Act – Conditionally Exempt Small Quantity Generators)	Site and adjoining properties	0	0	
US INST Control (Federal Sites with Intuitionial controls)	Site	0	0	
US ENG Control (Federal Sites with Engineering controls)	Site	0	0	
ERNS (Emergency Response Notification System)	Site	0	0	



TABLE 3 (CONTINUED): REGULATORY DATABASE REPORT SUMMARY

State Data Services Searched	ASTM Standard Search Distance	Identified Sites	Sites of Concern	Comments
SHWS (Pennsylvania Priority List of Hazardous Waste Sites)	1 mile	0	0	
HSCA (PA state equivalent of NPL Superfund list)	1 mile	0	0	
SWF/LF (Solid Waste Facility, Landfill Facility)	0.5 mile	0	0	
LUST (Pennsylvania Confirmed Leaking Underground Storage Tanks)	0.5 mile	0	0	
LAST (Pennsylvania Confirmed Leaking Aboveground Storage Tanks)	0.5 mile	0	0	
UNREG L Tanks (Leaking storage tank cases from unregulated tanks)	0.5 mile	2	0	See below
UST or Archive UST (Pennsylvania List of registered USTs)	Site and adjoining properties	0	0	
AST or Archive AST (Pennsylvania List of registered ASTs)	Site and adjoining properties	0	0	
INST Control (Pennsylvania Sites with Intuition controls)	Site	0	0	
ENG Control (Pennsylvania Sites with Engineering controls)	Site	0	0	
AUL (Pennsylvania Environmental Covenants)	Site	0	0	
Act 2 DEED (Pennsylvania Deed Restrictions)	Site	0	0	
VCP (Pennsylvania State Volunteer Cleanup Program)	0.5 mile	3	0	See below
Brownfield (State Brownfields Sites)	0.5 mile	0	0	

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

UNREG L Tanks (Leaking storage tank cases from unregulated tanks)

The Fitch residence and the warren residence are both reported with No. 2 fuel oil releases and are located more than ¼-mile from the Subject Site. Based on the release and the distance from the Subject Site, neither is anticipated to impact the Site.

VCP (Pennsylvania State Volunteer Cleanup Program)

833 Westtown Road and 883 Joeck Circle are both located more than ¼-mile northwest of the Site and are reported as releases from No. 2 fuel oil with a status of



complete or cleanup in progress. Based on the releases reported and the distance from the Subject Site, neither is anticipated to impact the Site.

The Morrow property at 876 Westtown Road is located more than ¼ mile northeast of the Subject Site and is reported with an inorganic release to soil. Cleanup was completed in 2001 under the Statewide Health Standard. Based on the reported release, cleanup status, and distance, this property is not anticipated to impact the Subject Site.

Unplottable Sites

No unplottable facilities were identified in the database report.

5.0 SITE RECONNAISSANCE

Date of Inspection:	December 22, 2015
Time:	2:00 pm
Brickhouse Personnel:	Ms. Christina Ruble
Site Representative:	Mr. Chris Nussbaumer, owner
Weather Conditions:	Clouds with light rain, 55°F

Brickhouse Environmental conducted a walk through reconnaissance of the interior of the Site structures followed by the exterior of the Site. Mr. Nussbaumer accompanied Brickhouse Environmental on the Site inspection and was knowledgeable regarding the history of the Site. Visual inspections of the adjoining properties were made from the property perimeter. Photographs taken during Brickhouse Environmental's Site inspection are included in Appendix B. An aerial photograph illustrating general Site features is included as Figure 3 in Appendix A.

The objective of the Site Reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the property. Observations were made with respect to the specific list of property use and characteristics specified by ASTM E1527-13.

5.1 Issues to be assessed as Specified by ASTM E1527-13

5.1.1 Buildings, Other Structures, Foundations and Old Ruins

The Site is improved with three residential dwellings and an empty horse barn. The dwelling located adjacent to South Five Points Road in the northern portion of the Site dates back to 1762 with an addition in 1840. The building consists of three stories and a full basement. A portion of the dwelling is currently occupied.

The dwelling east of the aforementioned dwelling was initially a barn structure dating back prior to the 1950s, and was converted to a residential unit in the 1970s. The two-story structure is built on a concrete slab, and there is no basement.



The southern-most dwelling located off Little Shiloh Road is a single-story structure with a walk-out basement. The building was locked at the time of inspection, and no key was available. The interior was not inspected; however based on the utilities and the residential nature of the building, it is not identified as a significant data gap on the findings and conclusions of this report.

An empty horse barn is located to the east of the dwellings and dates back to 1984. An in-ground pool with glass enclosure is located south of the two story converted barn dwelling.

No other structures or foundations were observed during Brickhouse Environmental's Site inspection.

5.1.2 Wooded and Vegetative Areas

Wooded and vegetative areas were observed throughout the Site surrounding the buildings. Manicured lawn and low-lying vegetation was present across much of the property with localized areas of dense vegetation along the property boundaries and along the eastern portion of the Site.

5.1.3 Water Bodies, Springs, Lagoons, Swamps, Rivers, Lakes, etc.

A man-made pond was observed near the central portion of the Site between the residential structures. The pond is fed by springs and drainage channels/intermittent streams flowing across the Site from west to east.

5.1.4 Utilities, Floor Drains, Vent Pipes, Wells, Cisterns and Septic Systems

The Site is served by an on-site water supply well for onsite potable use. The single well, located off the east side of the original dwelling, supplies water for all of the dwellings. According to Mr. Nussbaumer, the well is 100 to 200+ feet deep.

Wastewater for the Site is managed via individual onsite septic systems. Separate systems are present for each dwelling. According to Mr. Nussbaumer, each system consists of a septic tank and drain field. Mr. Nussbaumer stated that the septic system for the dwelling along South Five Points Road is located off the southeast corner of the dwelling, two systems for the converted barn dwelling are located off the east side of the building, and that the septic system for the dwelling along Little Shiloh Road is located off the southwest side of the building.

The Site buildings are heated via natural gas fired furnaces. The original dwelling along South Five Points Road has been heated via natural gas for as long as Mr. Nussbaumer can remember. Evidence of historic aboveground storage tanks (ASTs) or underground storage tanks (USTs) were not observed. Mr. Nussbaumer stated that there are several fireplaces throughout the home, which would have provided a heating source



prior to the natural gas heater. The converted barn to the east was historically heated via an oil-fired furnace. Heating oil was supplied by two ASTs located along the south side of the home (See Section 5.1.5). The dwelling was converted to natural gas around the middle 1990s. The third dwelling along Little Shiloh Road has been heated via natural gas since it was constructed in the 1970s.

No floor drains, sumps, or stormwater structures were observed during Brickhouse Environmental's Site inspection.

5.1.5 AST/USTs

Two empty ASTs were observed along the south side of the converted barn dwelling. Both tanks were historically used for storage of heating oil and were emptied at the time the heating system was converted to natural gas (middle 1990s). Some staining was observed around the fill ports, but appeared limited to the upper part of the tank. The tanks are located on bare ground, which is overgrown with ivy. No staining or evidence of releases to the ground surface were observed.

5.1.6 Pipelines

Evidence of pipelines was not encountered during Brickhouse Environmental's Site inspection.

5.1.7 Transformers and PCB Equipment

Transformers and PCB Equipment were not observed during Brickhouse Environmental's Site inspection.

5.1.8 On-Site Hazardous Substances and Petroleum Products

But for limited quantities of household maintenance supplies and gasoline for lawnmowers, on-site hazardous substances and petroleum products were not observed during Brickhouse Environmental's Site inspection. No evidence of release associated with these substances was observed.

5.1.9 Unidentified Substance Containers

Unidentified substance containers were not observed during Brickhouse Environmental's Site inspection.

5.1.10 Heavy Equipment, and or Hydraulic Equipment

Heavy equipment and/or hydraulic equipment were not observed during Brickhouse Environmental's Site inspection.



5.1.11 Smells of Chemical Gases, Petroleum Products or Foul Odors

Smells of chemical gases, petroleum products or foul odors were not encountered during Brickhouse Environmental's Site inspection.

5.1.12 Evidence of Landfill, Dumping, Disturbed Soil or Direct Burial Activity

A landscape debris pile was observed in the eastern portion of the Site, east of the barn and north of the pond. The material consisted of leaves, branches, and logs.

Other evidence of landfill, dumping, disturbed soil or direct burial activity was not encountered during Brickhouse Environmental's Site inspection.

5.1.13 Evidence of Surface Impoundments or Holding Ponds

As previously discussed in Section 5.1.3, a man-made pond is located near the approximate center of the Site. The pond is for recreational purposes.

5.1.14 Evidence of Solid Waste and/or Waste Water Discharges

No evidence of solid waste or waste water discharges was observed during Brickhouse Environmental's Site inspection.

5.1.15 Evidence of any Industrial or Production/Storage Activities

Evidence of current industrial or production/storage activities was not encountered during Brickhouse Environmental's Site inspection.

5.1.16 Evidence of any Monitoring Wells or Remedial Activities

Evidence of monitoring wells or remedial activities was not encountered during Brickhouse Environmental's Site inspection.

5.1.17 Evidence of Stained or Discolored Surfaces

Evidence of stained or discolored surfaces was not encountered during Brickhouse Environmental's Site inspection.

5.1.18 Evidence of Leachate or Seeps

Evidence of leachate or seeps was not encountered during Brickhouse Environmental's Site inspection.



5.1.19 Evidence of any Areas of Distressed, Discolored or Stained Vegetation

Evidence of any areas of distressed, discolored or stained vegetation were not observed during Brickhouse Environmental's Site inspection.

5.1.20 Evidence of any Chemical Spills and/or Releases

Evidence of chemical spills and/or releases was not encountered during Brickhouse Environmental's Site inspection.

5.1.21 Evidence of Discharges, Leachate Migration or Run-Off of Potential Contaminants from an Off-Site Source onto the Subject Property

Evidence of discharges, leachate migration or run-off of potential contaminants from an off-site source onto the subject property was not encountered during Brickhouse Environmental's Site inspection.

5.1.22 Other Known or Observed Environmentally Sensitive or Suspect Conditions On-Site

No other known or observed environmentally sensitive or suspect conditions were encountered during Brickhouse Environmental's Site inspection.

6.0 INTERVIEWS

Brickhouse Environmental conducted interviews with those individuals readily available and known by Brickhouse who have actual knowledge with respect to the existing and previous ownership and uses of the property to obtain information indicating RECs in connection with the property.

6.1 Key Site Manager, Current Owners, and Occupants

Mr. Christopher Nussbaumer is the current owner of the property and was identified as the Key Site Manager most familiar with existing and former operations conducted at the Site. Mr. Nussbaumer was interviewed during the Site inspection on December 22, 2015, and information obtained during the interview has been incorporated into Section 5.1 above.

6.2 State and Local Agency Officials

Brickhouse Environmental contacted the West Goshen Township Fire Marshal and Building Official on December 18, 2015. Ms. Andrea Testa, West Goshen Fire Marshal, responded on December 21, 2015 that there are no records or environmental issues for the Site. On January 4, 2016, Brickhouse Environmental interviewed via telephone Ms. Heidi Hoeger, Chester County Health Department Sewer Enforcement Officer. Ms. Hoeger



stated that she has no records for the Site, and that systems would pre-date their permitting records.

7.0 OUT OF SCOPE SERVICES

Beyond the scope of ASTM E1527-13, soil samples were collected for laboratory analysis as part of a limited assessment related to historic agricultural operations. An historic orchard was identified during the historic aerial photograph review from at least 1968 to 1981 (Section 4.5) on a portion of the Site. The Site is owned by the family that once operated Nussex Apple Orchard formerly located to the west of the Site. The Nussex Orchard was closed around 1999 and was redeveloped as a residential sub-division. The area on the Subject Site where, based on a review of historic aerial photographs, trees were previously located included approximately 1 to 1.5 acres of land in the northeast corner of the Site. The area is currently a mowed field with no evidence of the former trees.

Historically, pesticides containing the metals Arsenic and Lead were often sprayed on fruit trees to prevent damage to the crop. In our experience, this practice can lead to the accumulation of these metals in the soils beneath and surrounding the trees. In order to evaluate potential subsurface impacts remaining at the Site, four grab soil samples were collected for laboratory analysis of Arsenic and Lead. From each of those grab sample locations, one composite soil sample was collected for laboratory analysis of herbicides and pesticides. The grab soil samples were collected from a depth of 8 to 12 inches below grade using a decontaminated stainless steel trowel. Sample locations, denoted G1, G2, G3, and G4, are illustrated on Figure 3.

Soil samples were submitted under chain of custody to ESC Lab Sciences of Mount Juliet, Tennessee, a certified environmental laboratory. Arsenic was detected at concentrations ranging from 5.79 mg/kg to 7.53 mg/kg, which is below the residential Statewide Health Standard (SHS) of 12 mg/kg. Lead was detected at concentrations ranging from 17.0 mg/kg to 30.9 mg/kg, which is typical among background concentrations and well below the residential SHS of 450 mg/kg. Herbicides and pesticides were not detected above the laboratory method detection limits. A complete copy of the laboratory analytical report is included in Appendix F.

In summary, impacts to soil from the historic application of herbicides and pesticides were not identified by the soil sampling and analysis. Based on the sampling results, RECs were not identified associated with the historic agricultural operations.

8.0 FINDINGS AND OPINIONS

The property is identified as Chester County tax parcel 52-6-22. The property is comprised of approximately 10 acres of land located along the east side of South Five Points Road at the intersection of Little Shiloh Road in West Goshen Township. The property is



currently under residential use and is improved with three homes and a horse barn. The Site is surrounded by residential properties.

The Site was improved with a residential structure dating back to 1762. A review of historic aerial photographs from 1950 to 2010 revealed that the Site was under residential/agricultural use throughout that time. An area of orderly plantings typical of an orchard was identified on a portion of the Site from 1968 to 1981. Historical reviews revealed that the Site is owned by the Nussbaumer family, who has owned it since 1957 and also operated an apple orchard on the adjacent property (known as Nussex Farms).

Even though all reasonably ascertainable sources for Brickhouse Environmental were reviewed, it should be noted that the historical review detailed in Section 4 does not identify the use of the property in five year intervals back to the first use of the Site as required by ASTM E1527-13. This is not considered a significant data gap in relation to the findings and conclusions of this report.

The current property owner (Mr. Chris Nussbaumer) stated that a Phase I ESA and Phase II ESA consisting of a ground penetrating radar scan, were conducted within the last year, however he did not have a copy of the reports. Mr. Nussbaumer reported that the Phase I and Phase II ESA were conducted when the property was proposed for sheriff sale. He reported that the investigations did not identify any environmental issues. While the lack of documentation is identified as a data gap, it is not identified as a significant data gap on the finding and conclusions of this report.

9.0 CONCLUSIONS

Brickhouse Environmental has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of the property located at 881 South Five Points Road, West Chester, Pennsylvania. Any exceptions to or deletions from this practice are described in Section 7.0 of this report. This assessment has revealed no evidence of RECs, HRECs, or CRECs in connection with the property.

Beyond the scope of the ASTM E1527-13, soil samples were collected for laboratory analysis as part of a limited assessment related to historic agricultural operations in the northeast corner of the Site. Four grab soil samples were collected from a depth of 8 to 12 inches below grade for analysis of Arsenic and Lead. One composite soil sample was collected from each of the four grab samples for analysis of herbicides and pesticides. In summary, impacts to soil from the historic application of herbicides and pesticides were not identified by the soil sampling and analysis.



Environmental Professional Statement

I declare that to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR Subchapter 312.21(d) and I have the specific qualification based on education, training, and experience to assess a property for the nature, history, and setting of the Subject Property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Christina Ruble
Project Manager

10.0 QUALIFICATIONS AND LIMITATIONS

Brickhouse Environmental is a full service environmental consulting firm providing a broad range of services to clients in the Mid-Atlantic area. Founded in 1977, the company draws from a staff of professional geologists, engineers and scientists to meet its clients' needs in the following areas: environmental site assessments, site remediation, solid waste management, facilities engineering and site development engineering.

Ms. Christina Ruble, a Brickhouse Environmental Project Manager, performed this Phase I ESA. Supervision was provided by Mr. Paul White, P.G. The scope of this investigation was limited to visual observation of surface conditions at the Site, interviews, listed public agency personnel, and a review of readily available reports and literature.

The investigation addresses the likelihood of hazardous substance or petroleum product contamination resulting from past and current known uses of the Site and surrounding properties identified by the Database Report within the approximate minimum search distances specified by ASTM E1527-13. As a result, certain conditions may not be revealed. These conditions include, but are not limited to, the following:

1. Naturally occurring toxins in the subsurface soils, rocks, water, or on-site flora;
2. Toxicity of substances common in current habitable environments, such as stored household products, building materials, and consumables;
3. Presence of lead or copper in drinking water or in paint, which could exceed regulatory standards;
4. Contaminant plumes below the ground surface;



5. Contaminants or contaminant concentrations that do not violate present regulatory standards but may violate future such standards;
6. Asbestos containing materials;
7. Radon gas;
8. Wetlands;
9. Sinkholes or subsurface conditions affecting structural stability;
10. Operations conducted on days other than those during our observation;
11. Unknown Site contamination, such as "midnight" dumping and/or accidental spillage which may occur before or following the Site visit.

Additional investigation, including sampling and laboratory analysis, may be appropriate to confirm the presence or absence of the above items.

The computer database contained in this report has been provided by Environmental Data Resources and was obtained from publicly available sources and other secondary sources of information produced by others. Brickhouse Environmental disclaims any and all liability for any errors, omission, or inaccuracies in such information and data, whether attributable to inadvertence or otherwise, and for any consequences arising therefrom. The report is valid only for the geographical parameters specified on the cover page of that report, and any alteration or deviation from that description will require a new report.

Information provided to Brickhouse Environmental by interviewees forms the basis for certain opinions and findings for this report. Brickhouse Environmental cannot warrant the accuracy or completeness of information provided by these sources, but has used professional judgment, available Site information, and visual observations in incorporating information provided by the interviewee into this report.

Services for this project are performed in accordance with the Agreement between the Client and Brickhouse Environmental. No warranty or guarantee of Site conditions is intended. This report is solely for the use of the Client and any reliance on this report by third parties shall be at such party's sole risk.

This report is intended to be used in its entirety, including all attachments and/or addenda to the report. Reliance on portions of the report, without considering it in its entirety, could potentially lead to misinterpretation by the reader.



11.0 REFERENCES

Agencies:

PADEP Activity and Use Limitations Registry website,
<http://www.dep.state.pa.us/pa-aul/>
accessed December 17, 2015.

PADEP eFACTS website, <http://www.dep.state.pa.us/dep/efacts/>
accessed December 17, 2015.

Natural Resource Conservation Service Web Soil Survey website,
<http://www.websoilsurvey.nrcs.usda.gov/>
accessed December 17, 2015.

Pennsylvania Geologic Map, <http://www.gis.dcnr.state.pa.us/geology/index.html>,
accessed December 17, 2015.

Chester County Tax Assessment website, <http://www.chesco.org/2198/GIS-ChescoViews>,
accessed, December 18, 2015.

Chester County Recorder of Deeds
files reviewed in person December 22, 2015.

Database Search:

Environmental Data Resources Inc., EDR Radius Map Report
881 S. Five Points Road, West Chester, PA 19382
compiled December 16, 2015, Inquiry No. 04493802.2r

Resources:

Environmental Data Resources Inc.; Aerial Photo Decade Package
881 S. Five Points Road, West Chester, PA 19382
compiled May 9, 2014, Inquiry No. 3938907.9

Environmental Data Resources Inc.; Historical Topographic Maps
881 S. Five Points Road, West Chester, PA 19382
compiled May 9, 2014, Inquiry No. 3938907.4

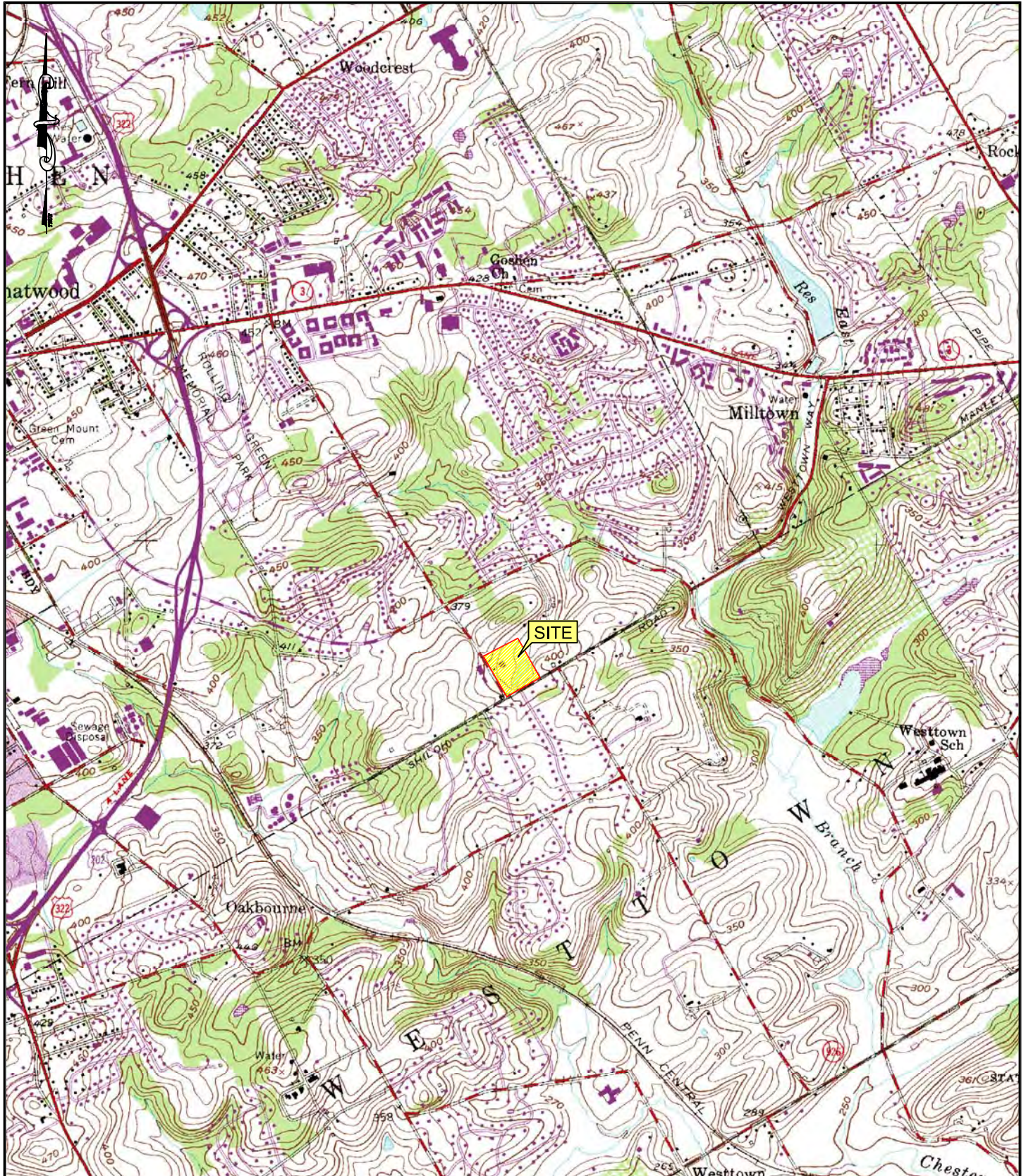
Environmental Data Resources Inc.; City Directory Abstract
881 S. Five Points Road, West Chester, PA 19382
compiled May 13, 2014, Inquiry No. 3938907.5



Brickhouse Environmental

APPENDIX A

PROPERTY MAPS AND SITE PLANS



Source:
West Chester, Pennsylvania 7-1/2 minute topographic quadrangle, U.S. Geological Survey

USGS SITE LOCATION MAP

881 SOUTH FIVE POINTS ROAD, WEST CHESTER, PENNSYLVANIA



BRICKHOUSE ENVIRONMENTAL

PROFESSIONAL GEOLOGISTS, SCIENTISTS AND ENGINEERS
515 S. FRANKLIN STREET; WEST CHESTER, PA 19382 PHONE: 610.692.5770 FAX: 610.692.8650
WWW.BRICKHOUSE-ENVIRONMENTAL.COM

PROJECT: 14-3059-0
FILE NO.: 14-3059-0 Figure 1
DATE: 12/16/2015
SCALE: 1" = 2000'

FIGURE

1

**TAX MAP****881 SOUTH FIVE POINTS ROAD, WEST CHESTER, PENNSYLVANIA****BRICKHOUSE ENVIRONMENTAL**

PROFESSIONAL GEOLOGISTS, SCIENTISTS AND ENGINEERS
515 S. FRANKLIN STREET, WEST CHESTER, PA 19382 PHONE: 610.692.5770 FAX: 610.692.8650
WWW.BRICKHOUSE-ENVIRONMENTAL.COM

PROJECT: 14-3059-0
FILE NO.: 14-3059-0 Figure 2
DATE: 12/16/2015
SCALE: 1" = 300'

FIGURE**2**

**LEGEND**

--- Site Boundary

△ Soil Sample Location

AERIAL PHOTOGRAPH**881 SOUTH FIVE POINTS ROAD, WEST CHESTER, PENNSYLVANIA****BRICKHOUSE ENVIRONMENTAL**

PROFESSIONAL GEOLOGISTS, SCIENTISTS AND ENGINEERS

515 S. FRANKLIN STREET; WEST CHESTER, PA 19382 PHONE: 610.692.5770 FAX: 610.692.8650
WWW.BRICKHOUSE-ENVIRONMENTAL.COM

PROJECT: 14-3059-0
 FILE NO.: 14-3059-0 Figure 3
 DATE: 12/23/2015
 SCALE: 1" = 200'

FIGURE**3**



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APPENDIX B

SITE PHOTOGRAPHS



Brickhouse Environmental



Rear of three story dwelling along South Five Points Road



Natural gas fired furnace in basement of 3 story dwelling



Brickhouse Environmental



Well pressure tank in basement of 3 story dwelling



Converted barn dwelling east of 3 story dwelling



Brickhouse Environmental



Natural gas fired furnace for converted barn dwelling



Empty heating oil tank for former heating oil furnace at converted barn dwelling



Brickhouse Environmental



Former orchard area in northeast corner of Site



Landscape debris pile in east side of Site



Brickhouse Environmental



West side of dwelling along Little Shiloh Road with septic system and natural gas meter



Drainage channel feeding man-made pond in central portion of Site



Brickhouse Environmental

APPENDIX C

AAI USER QUESTIONNAIRE



AAI USER QUESTIONNAIRE

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 the user (purchaser) must provide the following information (if available) to Brickhouse Environmental. Failure to provide this information could result in determination that “all appropriate inquiry” is not complete.

Property: 881 S Five Points Road
 West Chester, PA 19382
 BE Project No. 14-3059-0

1 Environmental cleanup liens that are filed or recorded against the site

- 1.1 Did a search of recorded land title records identify any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

NO

2 Activity and land use limitations that are in place on the property or that have been filed or recorded in a registry

- 2.1 Did a search of recorded land title records identify any Activity Use Limitations (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 registry under federal, tribal, state or local law?

NO

3 Specialized knowledge or experience of the person seeking to qualify for the LLP

- 3.1 As the user of the ESA 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 adjoining properties so that you would have specialized knowledge of the chemicals and processes used by this type of business

NO



4 Relationship of the purchase price to the fair market value of the property if it were not contaminated

- 4.1 Does the purchase price being paid for this property reasonably reflect the fair market value of the property?
If you conclude 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?

FAIR MARKET VALUE

5 Commonly known or reasonably ascertainable information about the property

- 5.1 Do you know the past uses of the property?

NO

- 5.2 Do you know of specific chemicals that are present or once were present at the property?

NO

- 5.3 Do you know of spills or other chemical releases that have taken place at the property?

NO

- 5.4 Do you know of any environmental cleanups that have taken place at the property?

NO

6 The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation

- 6.1 As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property?

NO

Scott Emerson
Signature

12/17/15
Date

SCOTT EMERSON
Printed Name



Brickhouse Environmental

APPENDIX D

HISTORICAL RESEARCH DOCUMENTATION



INQUIRY #: 3938907.9

YEAR: 1950

| = 500'





INQUIRY #: 3938907.9

YEAR: 1958

| = 500'





INQUIRY #: 3938907.9

YEAR: 1965

| = 500'





INQUIRY #: 3938907.9

YEAR: 1968

| = 500'





INQUIRY #: 3938907.9

YEAR: 1971

| = 500'





INQUIRY #: 3938907.9

YEAR: 1981

| = 500'





INQUIRY #: 3938907.9

YEAR: 1992

| = 500'



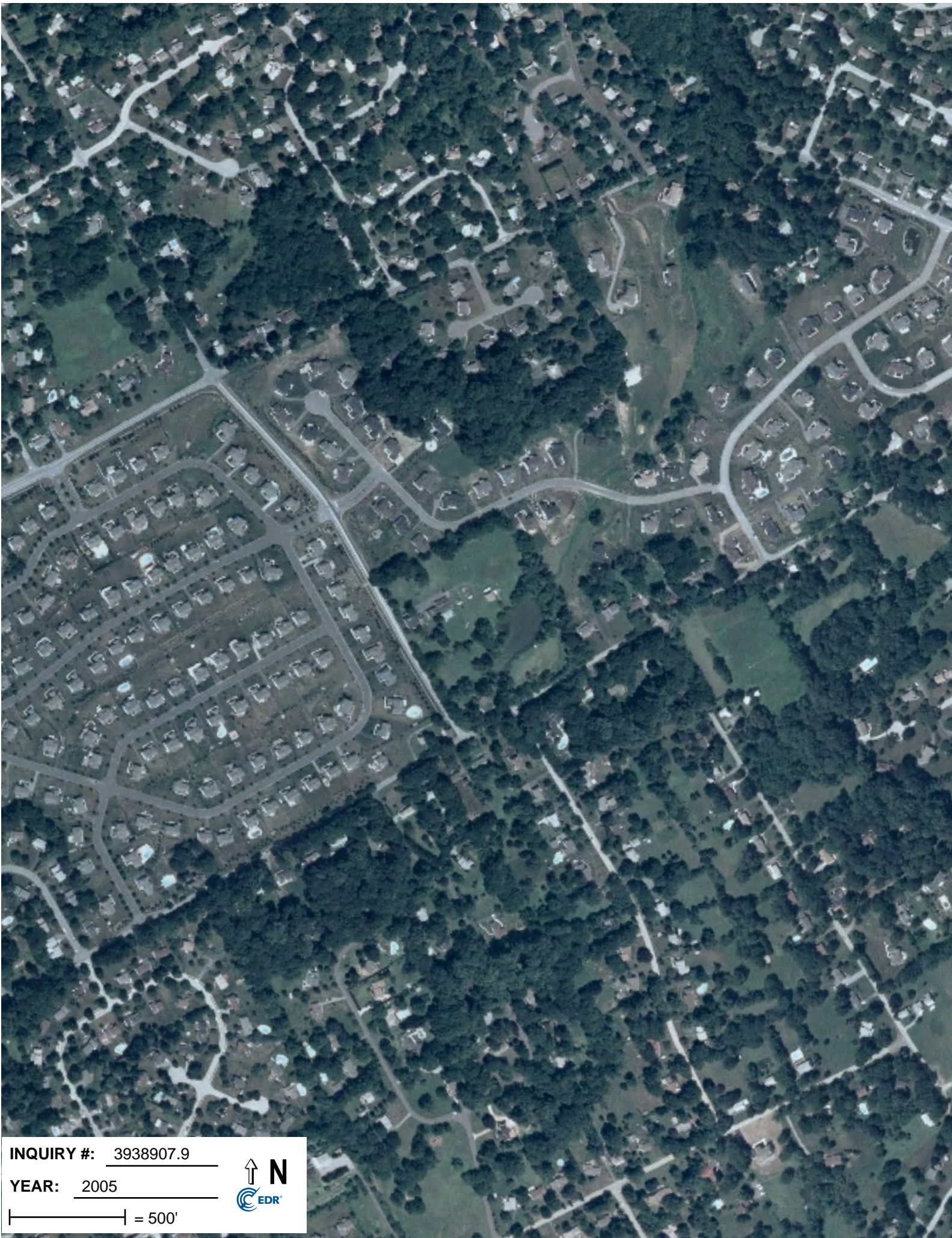


INQUIRY #: 3938907.9

YEAR: 1999

| = 500'





INQUIRY #: 3938907.9

YEAR: 2005

| = 500'





INQUIRY #: 3938907.9

YEAR: 2008

| = 500'





INQUIRY #: 3938907.9

YEAR: 2010

| = 500'





881 S Five Points Road

881 S Five Points Road
West Chester, PA 19382

Inquiry Number: 3938907.4
May 09, 2014

EDR Historical Topographic Map Report



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

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

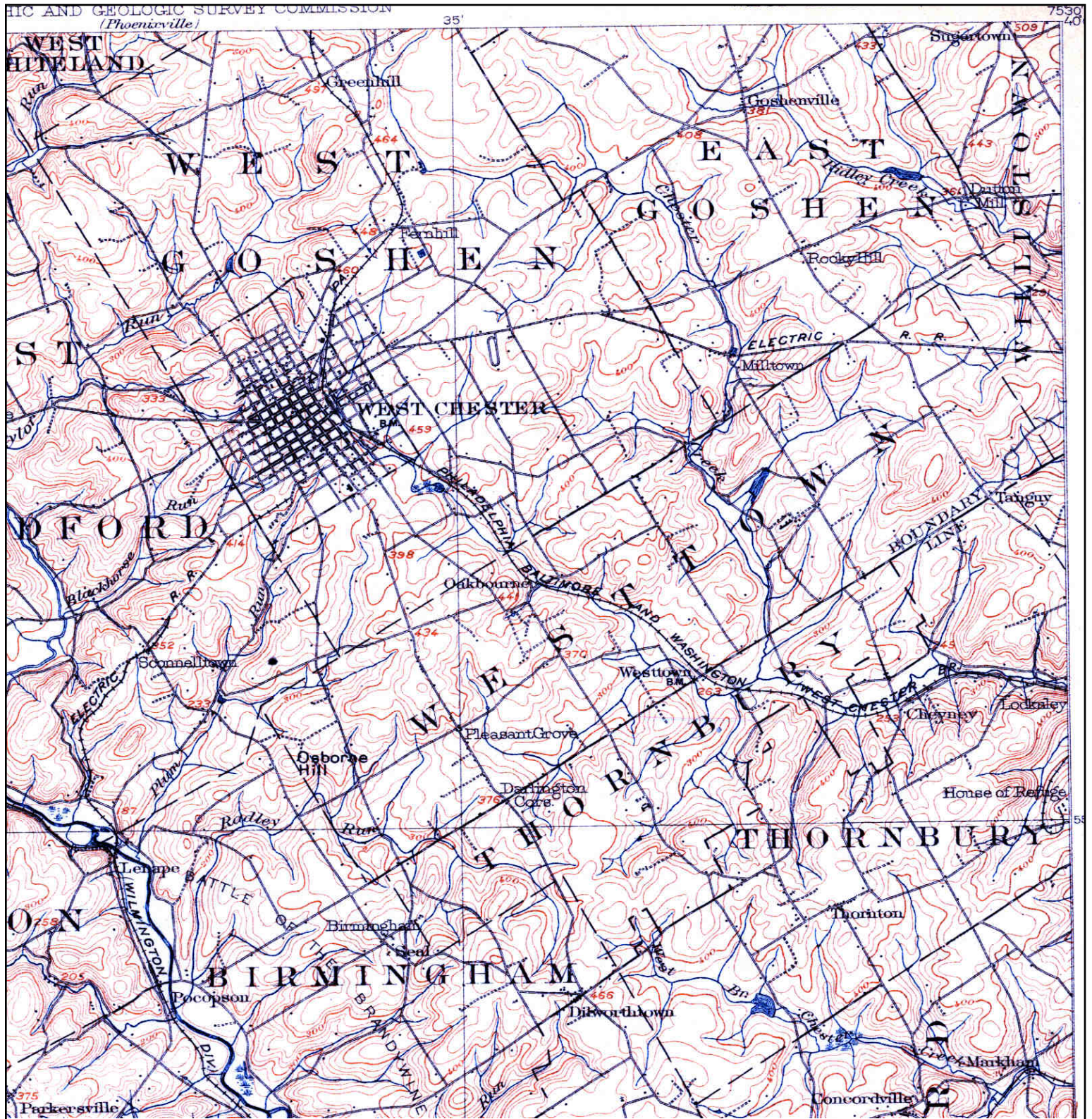
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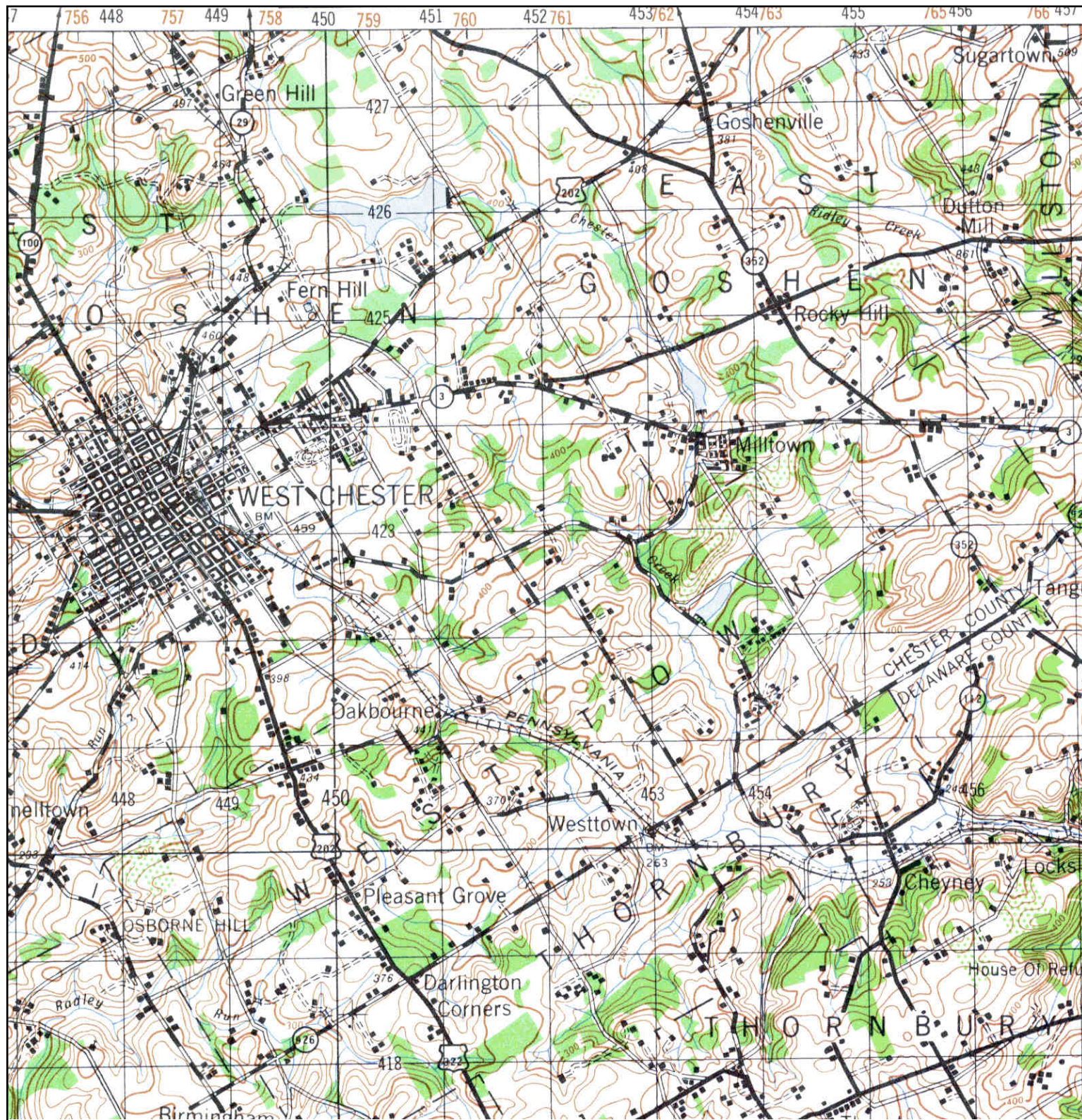
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Historical Topographic Map



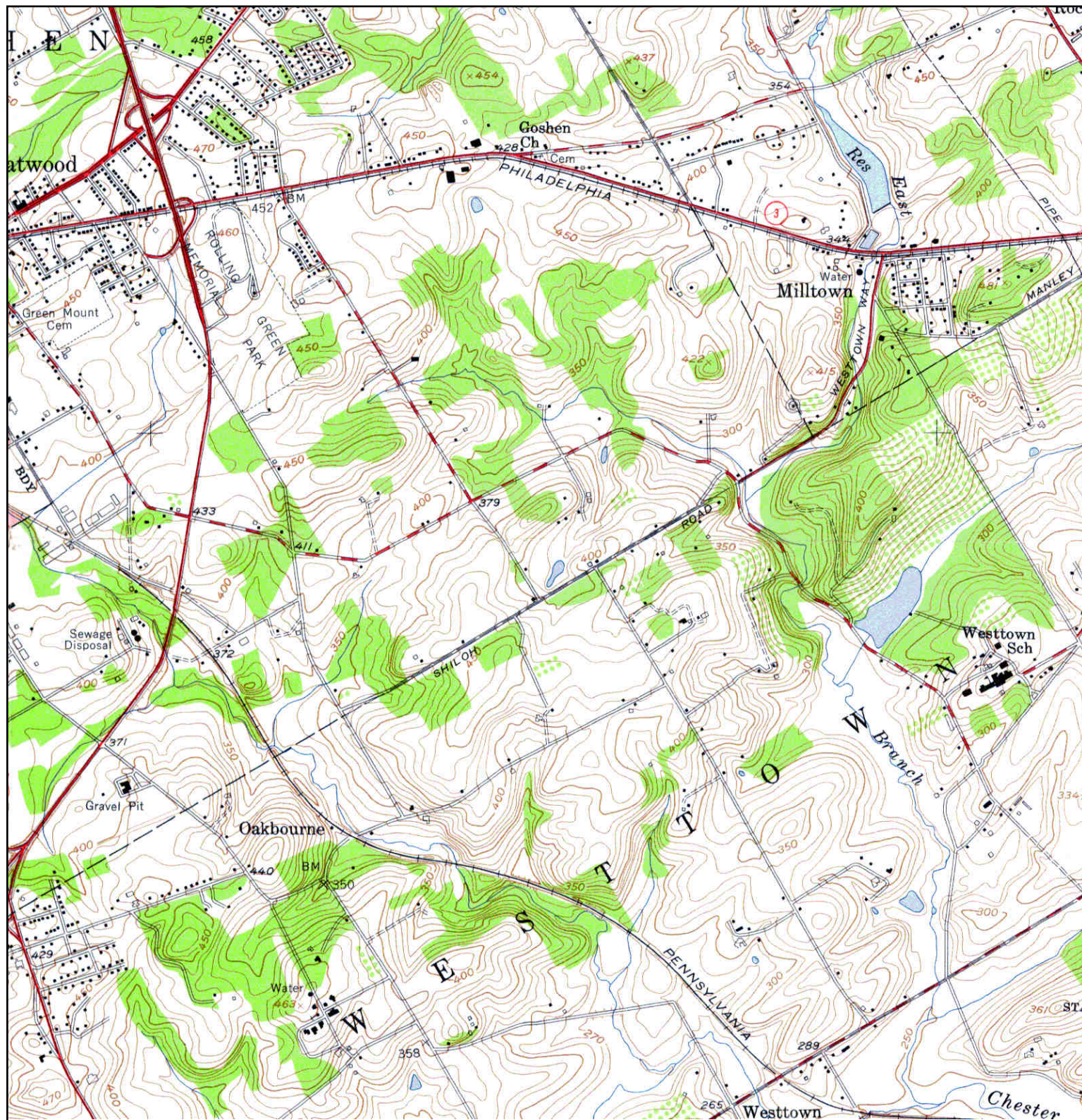
<p>N ↑</p>	<p>TARGET QUAD NAME: WEST CHESTER MAP YEAR: 1904 SERIES: 15 SCALE: 1:62500</p>	<p>SITE NAME: 881 S Five Points Road ADDRESS: 881 S Five Points Road West Chester, PA 19382 LAT/LONG: 39.953 / -75.5621</p>	<p>CLIENT: Brickhouse Environmental CONTACT: Tina Ruble INQUIRY#: 3938907.4 RESEARCH DATE: 05/09/2014</p>
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Historical Topographic Map



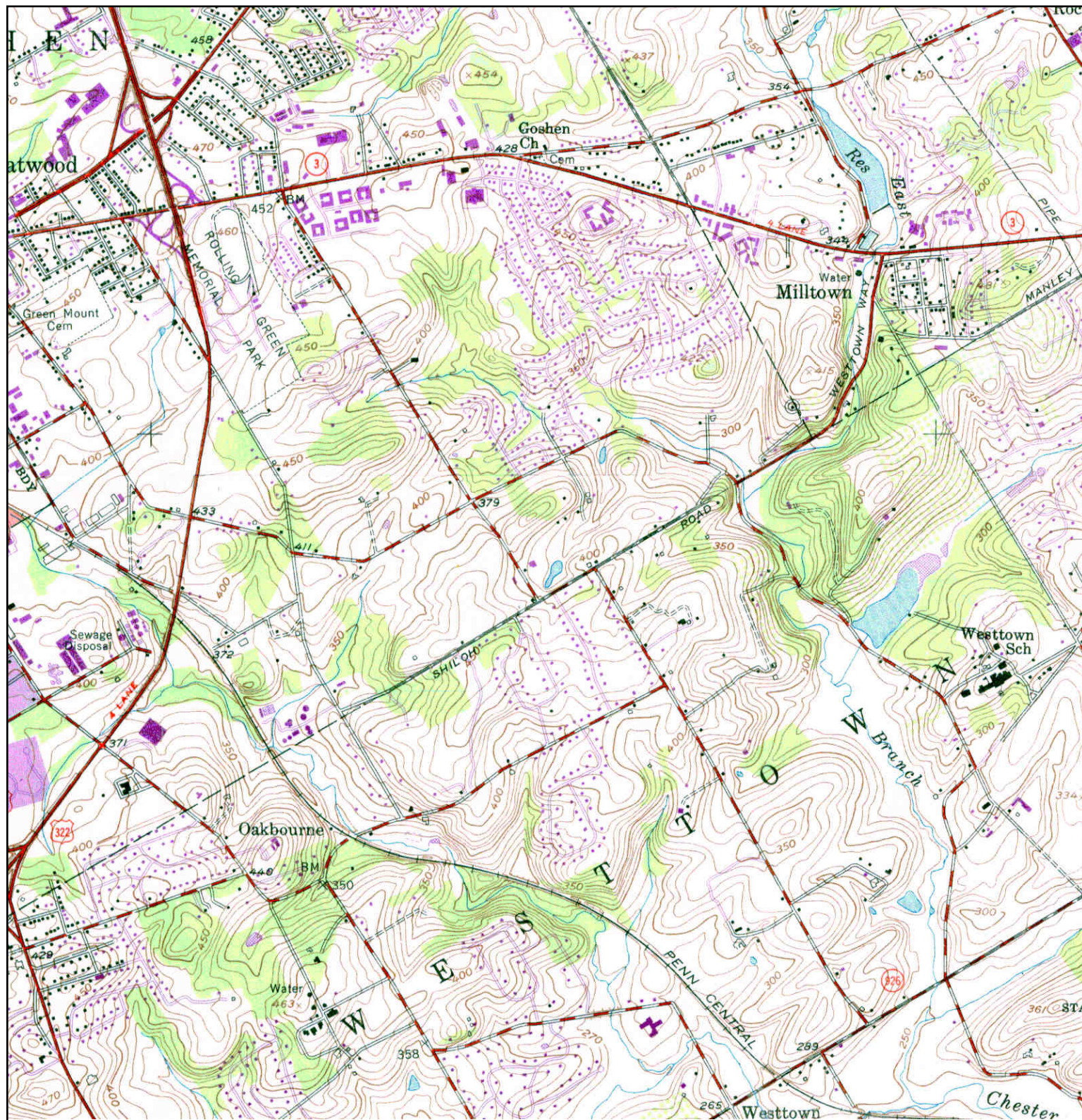
<p>N ↑</p>	<p>TARGET QUAD NAME: WEST CHESTER MAP YEAR: 1943 SERIES: 15 SCALE: 1:50000</p>	<p>SITE NAME: 881 S Five Points Road ADDRESS: 881 S Five Points Road West Chester, PA 19382 LAT/LONG: 39.953 / -75.5621</p>	<p>CLIENT: Brickhouse Environmental CONTACT: Tina Ruble INQUIRY#: 3938907.4 RESEARCH DATE: 05/09/2014</p>
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Historical Topographic Map



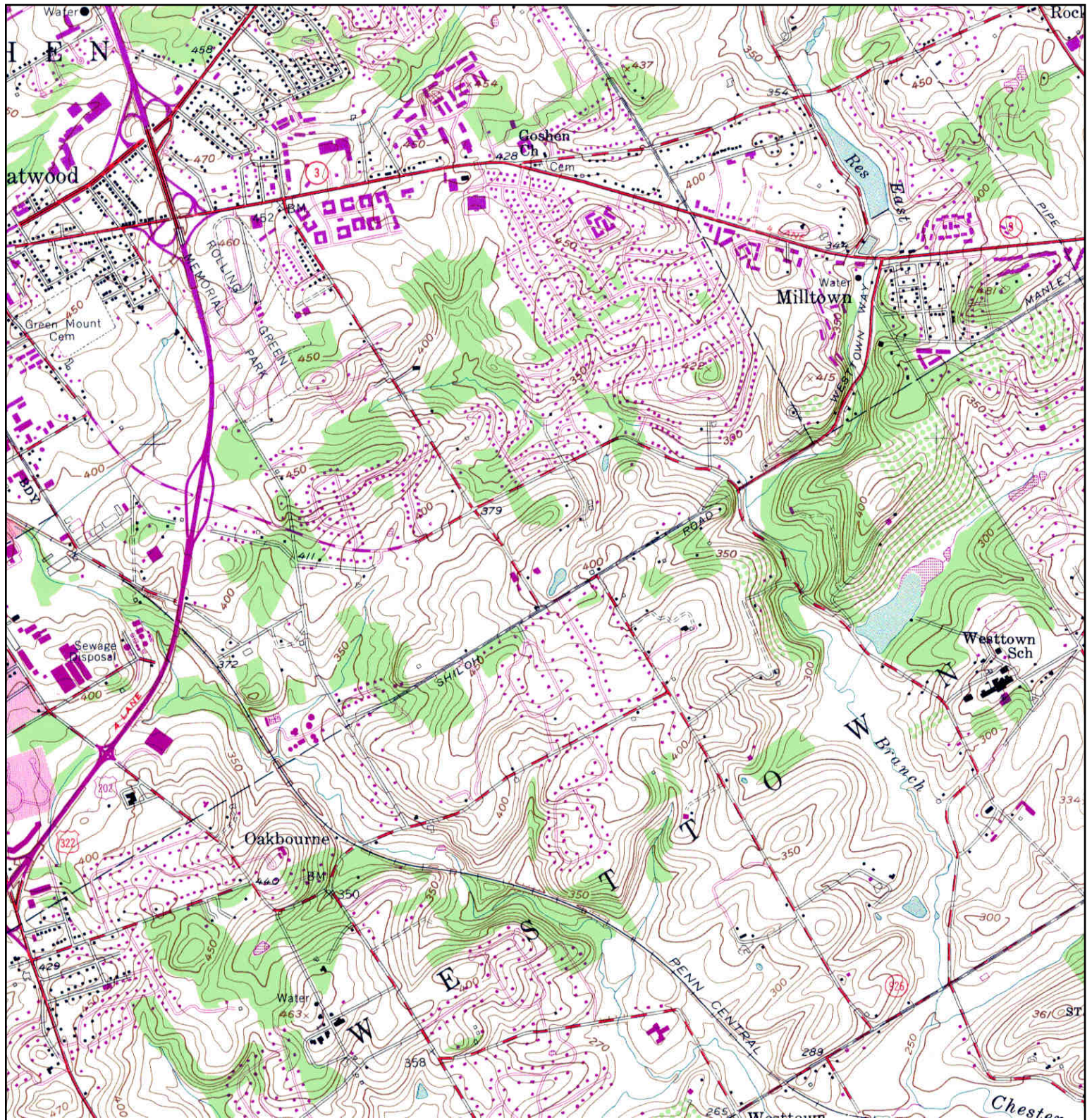
	TARGET QUAD	SITE NAME: 881 S Five Points Road	CLIENT: Brickhouse Environmental
	NAME: WEST CHESTER	ADDRESS: 881 S Five Points Road	CONTACT: Tina Ruble
	MAP YEAR: 1954	LAT/LONG: 39.953 / -75.5621	INQUIRY#: 3938907.4
	SERIES: 7.5		RESEARCH DATE: 05/09/2014
	SCALE: 1:24000		

Historical Topographic Map



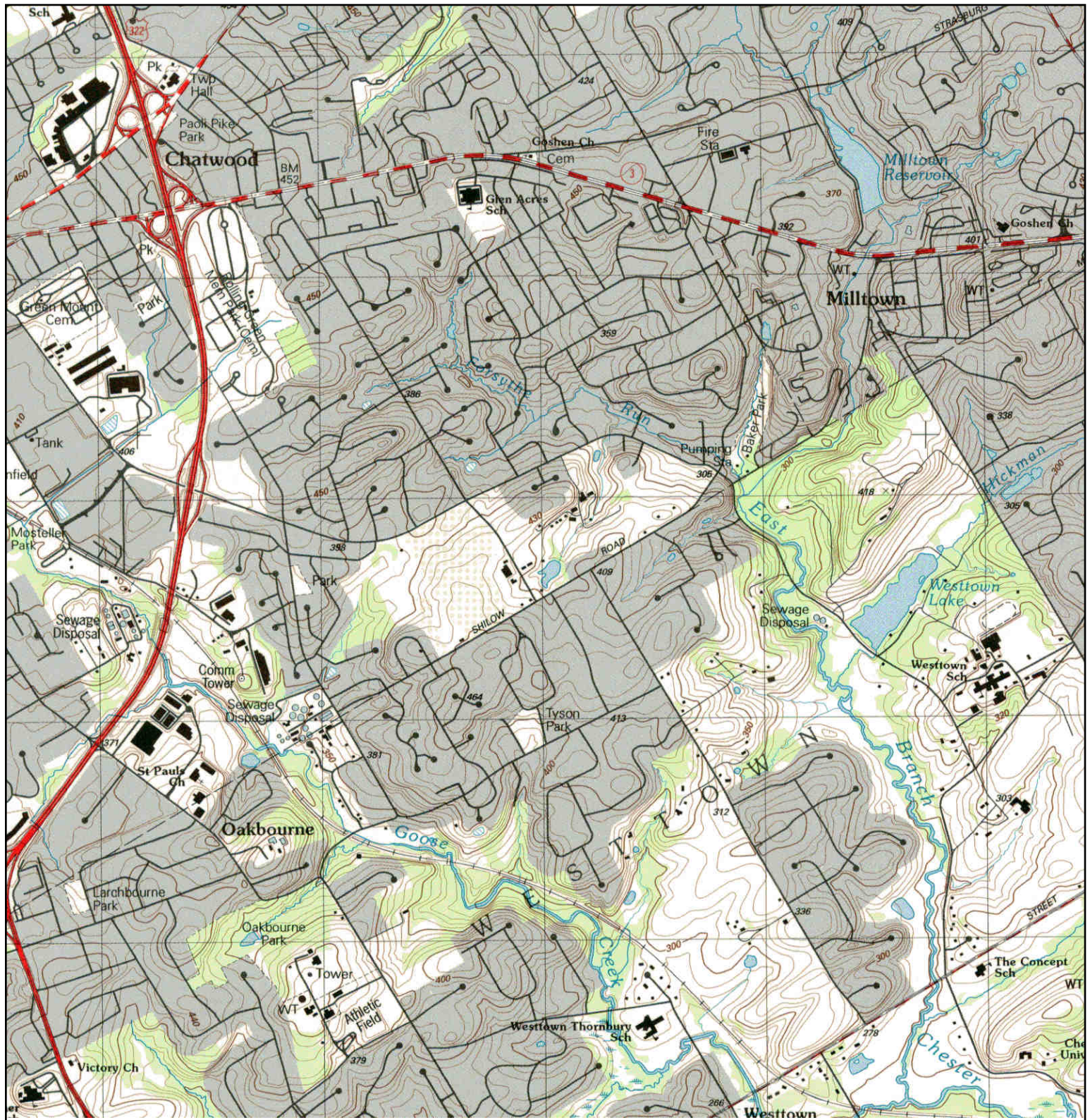
<p>N ↑</p>	<p>TARGET QUAD NAME: WEST CHESTER MAP YEAR: 1968 PHOTOREVISED FROM :1954 SERIES: 7.5 SCALE: 1:24000</p>	<p>SITE NAME: 881 S Five Points Road ADDRESS: 881 S Five Points Road West Chester, PA 19382 LAT/LONG: 39.953 / -75.5621</p>	<p>CLIENT: Brickhouse Environmental CONTACT: Tina Ruble INQUIRY#: 3938907.4 RESEARCH DATE: 05/09/2014</p>
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Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: WEST CHESTER MAP YEAR: 1973 PHOTOREVISED FROM :1954 SERIES: 7.5 SCALE: 1:24000</p>	<p>SITE NAME: 881 S Five Points Road ADDRESS: 881 S Five Points Road West Chester, PA 19382 LAT/LONG: 39.953 / -75.5621</p>	<p>CLIENT: Brickhouse Environmental CONTACT: Tina Ruble INQUIRY#: 3938907.4 RESEARCH DATE: 05/09/2014</p>
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Historical Topographic Map



	TARGET QUAD	SITE NAME:	881 S Five Points Road	CLIENT:	Brickhouse Environmental
	NAME: WEST CHESTER	ADDRESS:	881 S Five Points Road	CONTACT:	Tina Ruble
	MAP YEAR: 1997		West Chester, PA 19382	INQUIRY#:	3938907.4
		LAT/LONG:	39.953 / -75.5621	RESEARCH DATE:	05/09/2014
	SERIES: 7.5				
	SCALE: 1:24000				

881 S Five Points Road

881 S Five Points Road
West Chester, PA 19382

Inquiry Number: 3938907.5
May 13, 2014

The EDR-City Directory Image Report

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Executive Summary

Findings

City Directory Images

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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 type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
2003	<input type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1999	<input type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1991	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Criss-Cross Directory
1985	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Criss-Cross Directory
1980	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Criss-Cross Directory
1972	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Criss-Cross Directory

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FINDINGS

TARGET PROPERTY STREET

881 S Five Points Road
West Chester, PA 19382

Year

CD Image

Source

S FIVE POINTS RD

2013	pg A1	Cole Information Services	
2008	-	Cole Information Services	Street not listed in Source
2003	-	Cole Information Services	Street not listed in Source
1999	-	Cole Information Services	Street not listed in Source
1991	pg A2	Cole Criss-Cross Directory	
1985	pg A3	Cole Criss-Cross Directory	
1980	pg A4	Cole Criss-Cross Directory	
1972	pg A5	Cole Criss-Cross Directory	

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

S FIVE POINTS RD

2013

881 KEVIN SCRIBNER

S FIVE POINTS RD

1991

	Edward Moore	83	692-7374
704	Stephen Smoot	88	431-0692
711	. . . . .	NP	
713	William W Homjak	84	436-9390
715	Paul S Maychak	85	696-6615
800	S Vicker	85	692-9180
801	William J Glah	70	696-1091
803	Robert L Carpenter	84	692-8099
807	Scott M Schaffer	84	431-3700
820	Roy Steward	71	696-8086
880	J H Nussbaumer	77	692-4964
	★ Nussex Co Inc	75	692-0205
	★ Nussex Farms	72	696-1133
	★ Wescho Co Inc	83	436-5866
	72 RESIDENCE	11	BUSINESS

S FIVE POINTS RD

1985

• • • • •				19382
711		NP		
713	William W Homjak	. . . 84	436-9390	
715	Paul S Maychak	. . . .	696-6615	
800	S Vicker	. . . .	692-9180	
801	William J Glah	. . . . 70	696-1091	
803	Robert L Carpenter	. . . 84	692-8099	
807	Scott M Schaffer	. . . 84	431-3700	
820	Roy Steward	. . . . 71	696-8086	
880	Herbert Nussbaumer	. . . 75	696-3324	
	J H Nussbaumer	. . . 77	692-4964	
	★ Nussex Co Inc	. . . 75	696-3324	
	★ Nussex Co Inc	. . . 75	692-0205	
	★ Nussex Farms	. . . . 72	696-1133	
	★ Wescho Co Inc	. . . . 83	436-5866	
NO #	E D Cassidy	. . . . 77	692-2236	
	72 RESIDENCE	11	BUSINESS	

S FIVE POINTS RD

1980

	M Willis	78	436-5868
702	Herbert W Doemling	-	692-7374
704	Bayard Richard	73	692-3574
711	Maureen P McCarthy	79	431-7010
800	M W Miller	79	696-7357
801	William J Glah	70	696-1091
820	Roy Steward	71	696-8086
880	★Eberhardt Nussex		696-3324
	★Farmer To Consumer	□	436-5316
	★Herbert Nussbaumer		696-3324
	J H Nussbaumer	77	692-4964
	★Nussex Co Inc		696-3324
	★Nussex Fms-Wsttwn		696-1133
	★Nussex Import Co		696-3324
	★West Chester Equip		436-5866
No #	E D Cassidy	77	692-2236
	59 Residence	15	Business

S FIVE POINTS RD

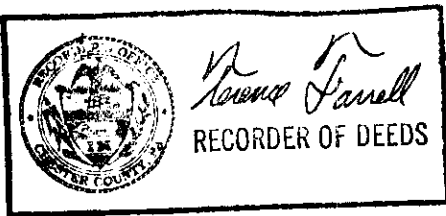
1972

*W	CHESTER WNDW CLN	6961471
520	CARL F SCHMID	-6923762
600	STEPHEN E ELINSKY	6964022
613	THOMAS C LOOMIS	0 6961347
701	PHILLIP MUHLFELDER	□4364653
704	BAYARD RICHARD	3 6923574
711	WOODROW H WILSON	1 6966488
801	W GLAH	0 6961091
820	ROY STEWARD	1 6968086

.....R D 6..... 19380

880	*EBERHARDT NUSSEX	-6963324
	HERBERT NUSSBAUMER	-6963324
	*NUSSEX FMS-WSTTWN	6961133
	*NUSSEX IMPORT CO	-6963324
	*WEST CHESTER EQUIP	□4365866
NO #	PETER RUEGG	2 6927640
	46 RESIDENCE	8 BUSINESS





DEED

THIS INDENTURE, made this ^{22nd} 21st day of April, 2003

BETWEEN,

Dorothea M. Nussbaumer

(hereinafter called the Grantor)

AND

Christopher J. Nussbaumer and Renee Nussbaumer

(hereinafter called Grantee.)

WITNESSETH, for and in consideration of the sum of One Million One Hundred Thousand Dollars (\$1,100,000.00) and other good and valuable consideration, lawful money of the United States of America, unto Grantor well and truly paid by the said Grantees and at or before the sealing and delivery hereof, the receipt whereof is hereby acknowledged, has granted, bargained and sold, released, and confirmed, and by these presents does grant, bargain, and sell, release, and confirm unto the said Grantees and Grantees heirs, successors and assigns,

PLEASE REFER TO EXHIBIT "A", WHICH IS ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE.

This Document Recorded
05/02/2003 State RTT: 11,000.00
12:39PM Local RTT: 11,000.00
Doc Code: DEE Chester County, Recorder of Deeds Office

Doc Id: 10230946
Receipt #: 102513
Rec Fee: 50.50



KEYSTONE SETTLEMENT SERVICES

05/02/2003 12:39P

10230946
Page: 1 of 5
B-5679 P-1066

28.50
3.00
5.00
10.00
4.00
50.50

5/3
mm
50.50

Order No: PH021408DC

Reference No:

Exhibit "A"

Schedule C
Description and Recital

ALL THAT CERTAIN message and tract of land situate in the Township of West Coshen, Chester County, Pennsylvania, bounded and described according to a survey made April 1923, by T.G. Colesworthy, County Surveyor for Chester County, as follows:

BEGINNING at an iron pin in the middle of the public road known as Little Shilo Road, which divided West Goshen and Westtown Townships at a corner of land of Ellsworth Hawkins; thence leaving the road and by the Hawkins land North, Twenty-two degrees, One minute West Two Hundred, Ninety-five and Six Tenths feet to a marble stone a corner of land of Robert L. Morgan; thence by the same North Twenty-two degrees, Fifteen minutes West, Four Hundred, Thirty-five and Eight Tenths feet to an iron pin, a corner of land of Morgan; thence by Sa IIC land formerly of George J. Hoopes, South Sixty-nine degrees, Forty-seven minutes West, Six Hundred, Twenty-five and Five Tenths feet to an iron pin in the middle of the Public Road known as Five Points Road, leading from the first mentioned road to the public road, known as Westtown Road leading from Greenmount Selmol; thence along the public road, known as Five Points Road and still by other land of Morgan, formerly Hoopes, South Twenty-two Degrees, Six minutes East, Seven Hundred, Fifty-six and Nine Tenths feet to an iron pin at the intersection of the odd tile line of the Township Line Road, known as Little Shilo Road, first mentioned; thence along the middle line of the same North Sixty-seven degrees twenty-seven minutes East, Six Hundred and Twenty-six feet to the first mentioned point of beginning.

CONTAINING 10.683 acres of land more or less.

UNDER AND SUBJECT, Nevertheless to certain agreements as now of record.

Being UPI #52-6-22 ✓

Being the same premises which Joachim H. Nussbaumer, Winnifried J. Nussbaumer and Dorothea R. Iverson, individually and t/a JWD Associates by Deed dated 2-19-97 and recorded 4-30-97 in Chester County in Record Book 4170 Page 165 conveyed unto Dorothea M. Nussbaumer, in fee.



KEYSTONE SETTLEMENT SERVICES

05/02/2003 12:39P

10230946

Page: 2 of 5

B-5679 P-1066

TOGETHER with all and singular improvements, ways, streets, alleys, driveways, passages, waters, water-courses, rights, liberties, privileges, hereditaments and appurtenances, whatsoever unto the hereby granted premises belonging, or in any wise appertaining, and the reversions and remainders, returns, issues, and profits thereof; and all the estate, right, title, interest, property, claim and demand whatsoever of the said Grantor and Grantor's heirs, successors and assigns, as well at law as in equity, of, in, and to the same.

TO HAVE AND TO HOLD the said lot(s) or piece(s) of ground above described with the hereditaments and premises hereby granted, or mentioned, and intended so to be, with the appurtenances, unto the said Grantees and Grantees heirs, successors and assigns to and fro the only proper use and behoof of the said Grantees and Grantees heirs, successors, and assigns, forever.

AND the said Grantor and the Grantor's heirs, successors and assigns do by these presents covenant, grant and agree, to and with the said Grantees and Grantees heirs, successors and assigns, that the Grantor and Grantor's heirs, successors and assigns, all and singular the Hereditaments and premises herein above described and granted, or mentioned and intended so to be with the Appurtenances unto the said Grantees and Grantees heirs, successors and assigns, against the said Grantor and Grantor's heirs, successors and assigns all and every Person or persons whomsoever lawfully claiming or to claim the same or any part thereof, by, from, or under Grantor and Grantor's heirs, successors and assigns, shall and will WARRANT and forever DEFEND.

OR

The said Grantor and Grantor's heirs, successors and assigns, or covenant, promise and agree, to and with the said Grantees and Grantee's heirs, successors and assigns, by these presents, that the said Grantor and Grantor's heirs, successors and assigns have not done, committed or knowingly or willingly suffered to be done or committed, any act, matter or thing whatsoever whereby the premises hereby granted, or any part thereof, is, are, shall or may be impeached, charged or encumbered, in title, charge, estate, or otherwise howsoever.



KEYSTONE SETTLEMENT SERVICES

05/02/2003 12:39P

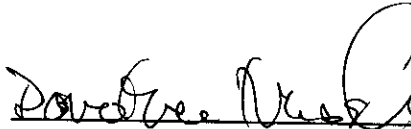
10230946

Page 3 of 5

B-5679 P-1066

IN WITNESS WHEREOF, the said Grantor has caused these presents to be duly executed, the day and year first above written.

SEALED AND DELIVERED in the presence of:

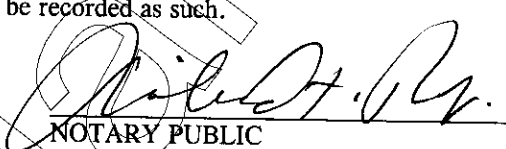

Dorothea M. Nussbaumer

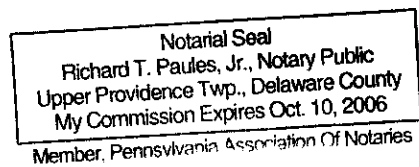
ACKNOWLEDGEMENT

State of Penna.
COUNTY OF DELAWARE

:
: ss.
:

On this, the 22nd day of April, 2003, before me, a Notary Public in and for the County and State aforesaid, personally appeared Dorothea M. Nussbaumer, as the person who signed same as his/her voluntary act and deed, and desired that it might be recorded as such.


NOTARY PUBLIC



KEYSTONE SETTLEMENT SERVICES

05/02/2003 12:38P

10230946

Page 4 of 5

B-5679 P-1066

DEED

Dorothea M. Nussbaumer

TO

Christopher J. Nussbaumer and Renee Nusbaumer

PREMISES.

881 South Five Points Road
West Goshen Township
Chester County

The precise address of the Grantee is as follows:

* 881 South Five Points Road, West Chester, PA 19382

Return to:

Keystone Settlement Services, Inc.
1100 North Providence Road, Suite 107
Media, PA 19063
610-565-0209

RETURN TO

certified by!
Rick Paules
Rick Paules



KEYSTONE SETTLEMENT SERVICES

05/02/2003 12:39P

10230946
Page: 5 of 5
B-5679 P-1066

This Indenture Made the 19th day of February in the year of our Lord one thousand nine hundred and ninety seven (1997)

Between JOACHIM H. NUSSBAUMER, WINNIFRIED J. NUSSBAUMER AND DOROTHEA R. IVERSON, individually and t/a JWD ASSOCIATES (hereinafter called the Grantor s, of the one part, and

DOROTHEA M. NUSSBAUMER, widow,

(hereinafter called the Grantee), of the other part,

Witnesseth That the said Grantor s, their heirs and assigns

for and in consideration of the sum of *****ONE DOLLAR (\$1.00)***** lawful money of the United States of America, unto them well and truly paid by the said Grantee , at or before the sealing and delivery hereof, the receipt whereof is hereby acknowledged, have granted, bargained and sold, released and confirmed, and by these presents do grant, bargain and sell, release and confirm unto the said Grantee her heirs and assigns,

ALL THAT CERTAIN messuage and tract of land situate in the Township of West Goshen, Chester County, Pennsylvania, bounded and described according to a survey made April 1923, by T.G. Colesworthy, County Surveyor for Chester County, as follows:

BEGINNING at an iron pin in the middle of the public road known as Little Shilo Road, which divided West Goshen and Westtown Townships at a corner of land of Ellsworth Hawkins; thence leaving the road and by the Hawkins land North, Twenty-two degrees, One minute West Two Hundred, Ninety-five and Six Tenths feet to a marble stone a corner of land of Robert L. Morgan; thence by the same North Twenty-two degrees, Fifteen minutes West, Four Hundred, Thirty-five and Eight-Tenths feet to an iron pin, a corner of land of Morgan; thence by same land formerly of George J. Hoopes, South Sixty-nine degrees, Forty-seven minutes West, Six Hundred, Twenty-five and Five Tenths feet to an iron pin in the middle of the Public Road known as Five Points Road, leading from the first mentioned road to the public road, known as Westtown Road leading from Greenmount School; thence along the public road, known as Five Points Road and still by other land of Morgan, formerly Hoopes, South Twenty-two Degrees, Six minutes East, Seven Hundred, Fifty-six and Nine Tenths feet to an iron pin at the intersection of the middle line of the Township Line Road, known as Little Shilo Road, first mentioned; thence along the middle line of the same North Sixty-seven degrees twenty-seven minutes East, Six Hundred and Twenty-six feet to the first mentioned point of beginning.

This is a Parent/Child Transaction therefore exempt from Transfer taxes

CONTAINING 10.683 acres of land more or less.

UNDER AND SUBJECT, Nevertheless to certain agreements as now of record.

BEING THE SAME PREMISES which Dorothea M. Nussbaumer by her deed dated February 3, 1986; recorded in Chester County Record Book 579 Page 580 granted and conveyed unto Joachim Nussbaumer, Winnifried J. Nussbaumer and Dorothea R. Iverson, sons and daughter of Grantor, t/a JWD ASSOCIATES, Grantors herein in fee.

Together with all and singular the herein described premises improvements, ways, streets, alleys, driveways, passages, waters, water-courses, rights, liberties, privileges, hereditaments and appurtenances, whatsoever unto the hereby granted premises belonging, or in any wise appertaining, and the reversions and remainders, rents, issues, and profits thereof; and all the estate, right, title, interest, property, claim and demand whatsoever of

the said grantor , as well at law as in equity, of, in, and to the same.

To have and to hold the said lot or piece of ground described hereditaments and premises hereby granted, or mentioned and intended so to be, with the appurtenances, unto the said Grantee , her heirs and assigns, to and for the only proper use and behoof of the said Grantee , her heirs and assigns forever.




And the said Grantor s their heirs, executors and administrators do covenant, promise and agree, to and with the said Grantee , her heirs and assigns, by these presents, that they the said Grantor s and their heirs, all and singular the hereditaments and premises hereby granted or mentioned and intended so to be, with the appurtenances, unto the said Grantee , her heirs and assigns, against themselves the said Grantor sand their heirs, and against all and every person and persons whomsoever lawfully claiming or to claim the same or any part thereof, by, from or under or any of them, shall and will

SPECIALLY WARRANT and forever DEFEND.

In Witness Whereof, the part ies of the First Part hereunto set their hands and seal s Dated the day and year first above written.

Scaled and Delivered
IN THE PRESENCE OF US:

By: Winnifried J. Nussbaumer
Winnifried J. Nussbaumer

Joachim H. Nussbaumer 
Winnifried J. Nussbaumer 
Dorothea R. Iverson 
JWD ASSOCIATES
By: Joachim H. Nussbaumer By: Dorothea R. Iverson

Commonwealth of Pennsylvania
County of Chester

} ss:

On this, the 19th day of February, 1997, before me, a Notary Public for the Commonwealth of Pennsylvania, residing in the County of Chester the undersigned Officer,

personally appeared Joachim H. Nussbaumer, Winnifried J. Nussbaumer and Dorothea R. Iverson, individually and t/a JWD Associates known to me (satisfactorily proven) to be the person whose name is (are) subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

I hereunto set my hand and official seal.

Notarial Seal
Michael J. Quinn, Notary Public
Smithfield Twp., Monroe County
My Commission Expires May 18, 1998
Member, Pennsylvania Association of Notaries

Michael J. Quinn
Notary Public

JWD.

John C. Clark Co., Phila.

752-S

The address of the above-named Grantee

is 801 So. Five Points Rd.

West Chester, PA. 19382

On behalf of the Grantee

Mary Jane Churchville

BK4170PG0168



23109

DATE: 04/30/1997 TIME: 09:54A INST NO.: 23109

CHESTER COUNTY, PA
OFFICE OF THE RECORDER OF DEEDS

RECEIPT NO : 011538 TYPE DOC : DEED
REC FEE : 13.50
LOC RTT : 0.00
ST RTT : 0.00
WRIT TAX : 0.50

DATE: 04/30/1997 TIME: 09:54A INST NO.:

CHESTER COUNTY, PA
OFFICE OF THE RECORDER OF DEEDS

RECEIPT NO : 011538 TYPE DOC : HOUSING
REC FEE : 13.50
LOC RTT : 0.00
ST RTT : 0.00
WRIT TAX : 0.00

Churchville Abst
738 Main St
Stroudsburg, Pa
18360

BK4170PG0169



Brickhouse Environmental

APPENDIX E

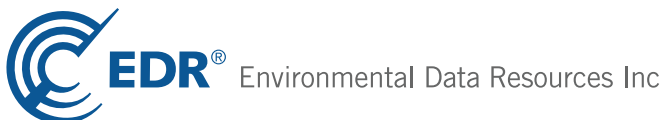
REGULATORY RECORDS DOCUMENTATION

881 S. Five Points Road

881 S. Five Points Road
West Chester, PA 19382

Inquiry Number: 04493802.2r
December 16, 2015

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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Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	10
Government Records Searched/Data Currency Tracking	GR-1

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

881 S. FIVE POINTS ROAD
WEST CHESTER, PA 19382

COORDINATES

Latitude (North):	39.9529000 - 39° 57' 10.44"
Longitude (West):	75.5620000 - 75° 33' 43.20"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	451993.5
UTM Y (Meters):	4422471.0
Elevation:	377 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5947579 WEST CHESTER, PA
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20100702
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
881 S. FIVE POINTS ROAD
WEST CHESTER, PA 19382

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	833 WESTTOWN RD RES	833 WESTTOWN RD	VCP	Higher	1640, 0.311, WNW
2	MORROW PROP	876 WESTTOWN RD	VCP	Lower	1785, 0.338, NNE
3	FITCH RES	1001 CAROLYN DR	UNREG LTANKS	Higher	1977, 0.374, SSE
4	833 JOECK CIR	833 JOECK CIR	VCP	Higher	2082, 0.394, WNW
5	1030 WARREN RD RES	1030 WARREN RD	UNREG LTANKS	Lower	2178, 0.412, North

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

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

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

Federal CERCLIS NFRAP site List

CERCLIS-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
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

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

EXECUTIVE SUMMARY

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

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

SHWS..... Hazardous Sites Cleanup Act Site List

HSCA..... HSCA Remedial Sites Listing

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

SWF/LF..... Operating Facilities

State and tribal leaking storage tank lists

LAST..... Storage Tank Release Sites

LUST..... Storage Tank Release Sites

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

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

UST..... Listing of Pennsylvania Regulated Underground Storage Tanks

AST..... Listing of Pennsylvania Regulated Aboveground Storage Tanks

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

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Engineering Controls Site Listing

INST CONTROL..... Institutional Controls Site Listing

AUL..... Environmental Covenants Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF..... Abandoned Landfill Inventory

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

ODI..... Open Dump Inventory

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

EXECUTIVE SUMMARY

Local Lists of Hazardous waste / Contaminated Sites

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

Local Lists of Registered Storage Tanks

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

Local Land Records

LIENS 2..... CERCLA Lien Information
ACT 2-DEED..... Act 2-Deed Acknowledgment Sites

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... State spills

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
FINDS..... Facility Index System/Facility Registry System

EXECUTIVE SUMMARY

AIRS.....	Permit and Emissions Inventory Data
DRYCLEANERS.....	Drycleaner Facility Locations
MANIFEST.....	Manifest Information
MINES.....	MINES
NPDES.....	NPDES Permit Listing
UIC.....	Underground Injection Wells

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

Sites listed in ***bold italics*** are in multiple databases.

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

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

UNREG LTANKS: Leaking storage tank cases from unregulated storage tanks.

A review of the UNREG LTANKS list, as provided by EDR, and dated 04/12/2002 has revealed that there are 2 UNREG LTANKS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FITCH RES Closed: 6/18/2001	1001 CAROLYN DR	SSE 1/4 - 1/2 (0.374 mi.)	3	9
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
1030 WARREN RD RES	1030 WARREN RD	N 1/4 - 1/2 (0.412 mi.)	5	9

EXECUTIVE SUMMARY

State and tribal voluntary cleanup sites

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

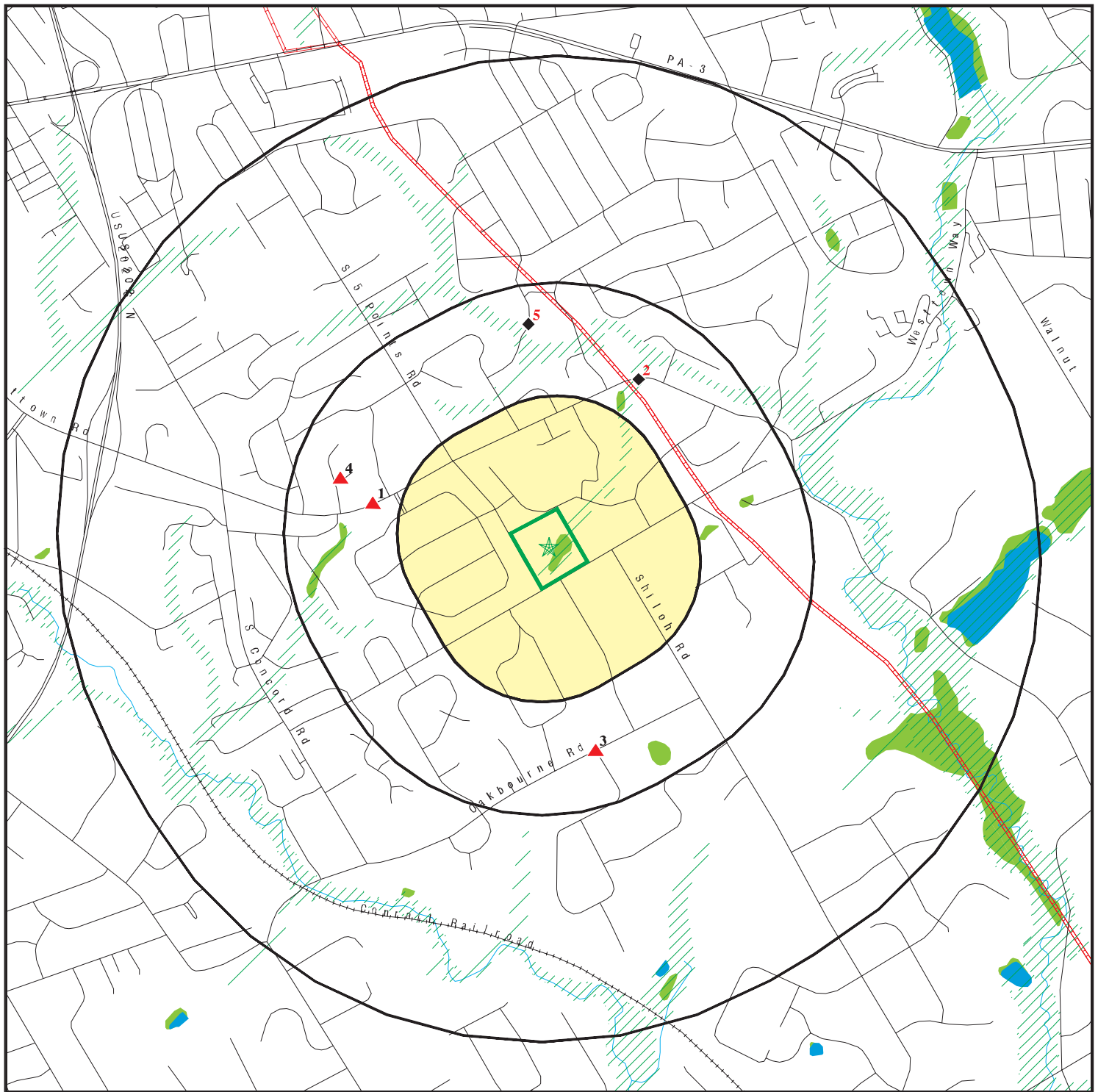
A review of the VCP list, as provided by EDR, and dated 10/13/2015 has revealed that there are 3 VCP sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
833 WESTTOWN RD RES Activity ID: 783405	833 WESTTOWN RD	WNW 1/4 - 1/2 (0.311 mi.)	1	8
833 JOECK CIR Activity ID: 794067	833 JOECK CIR	WNW 1/4 - 1/2 (0.394 mi.)	4	9
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MORROW PROP Activity ID: 617427	876 WESTTOWN RD	NNE 1/4 - 1/2 (0.338 mi.)	2	8

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 04493802.2R



- 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
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

0 1/4 1/2 1 Miles

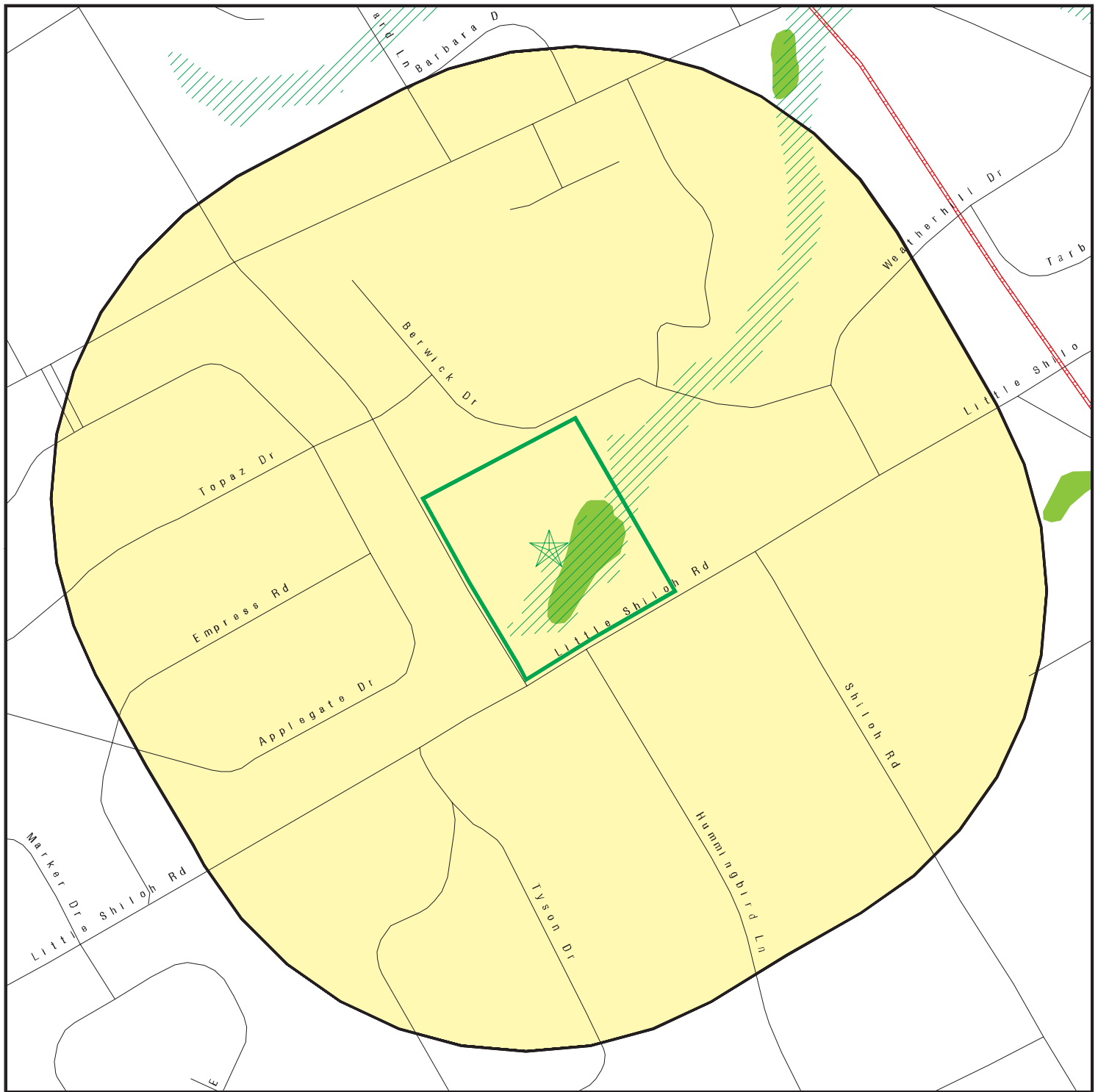















This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 881 S. Five Points Road
 ADDRESS: 881 S. Five Points Road
 West Chester PA 19382
 LAT/LONG: 39.9529 / 75.562

CLIENT: Brickhouse Environmental
 CONTACT: Tina Ruble
 INQUIRY #: 04493802.2r
 DATE: December 16, 2015 10:34 am

DETAIL MAP - 04493802.2R



-  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
-  Pipelines
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands

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: 881 S. Five Points Road
 ADDRESS: 881 S. Five Points Road
 West Chester PA 19382
 LAT/LONG: 39.9529 / 75.562

CLIENT: Brickhouse Environmental
 CONTACT: Tina Ruble
 INQUIRY #: 04493802.2r
 DATE: December 16, 2015 10:35 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>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
CERCLIS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERCLIS-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		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
SHWS	1.000		0	0	0	0	NR	0
HSCA	1.000		0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LAST	0.500		0	0	0	NR	NR	0
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	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
UNREG LTANKS	0.500		0	0	2	NR	NR	2
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	3	NR	NR	3
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								
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
ARCHIVE UST	0.250		0	0	NR	NR	NR	0
ARCHIVE AST	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
ACT 2-DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	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
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	0	5	0	0	5

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1
WNW
1/4-1/2
0.311 mi.
1640 ft.

833 WESTTOWN RD RES SPILL SITE
833 WESTTOWN RD
WEST CHESTER, PA 19382

VCP S118067406
N/A

Relative:
Higher

VCP:

Activity:

Activity ID: 783405,

Cleanup Records:

Municipality: West Goshen Twp

Region: Southeast Region

Category Desc: Fuel Oil No 2

Type: Site In Progress

LRP Acct: 48177

Remediation: Statewide Health Standard

Activity: Not reported

Date Approved: Not reported

Date Received: 07/06/2015

Date Nonuse: Not reported

ICS Code: Not reported

Media: Soil

Latitude: Not reported

Longitude: Not reported

2
NNE
1/4-1/2
0.338 mi.
1785 ft.

MORROW PROP
876 WESTTOWN RD
WEST CHESTER, PA 19382

VCP S106983591
N/A

Relative:
Lower

VCP:

Activity:

Activity ID: 617427,

Cleanup Records:

Municipality: West Goshen Twp

Region: Southeast Region

Category Desc: Inorganics

Type: Complete Sites

LRP Acct: 1017

Remediation: Statewide Health Standard

Activity: NO

Date Approved: 08/08/2001

Date Received: Not reported

Date Nonuse: Not reported

ICS Code: Not reported

Media: Soil

Latitude: Not reported

Longitude: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

3
SSE
1/4-1/2
0.374 mi.
1977 ft.

FITCH RES
1001 CAROLYN DR
WESTTOWN TWP., PA

UNREG LTANKS

S105918573
N/A

Relative:
Higher

UNREG LTANKS:

Region: South East
Contaminant: FUEL OIL NO. 2
Closed: 6/18/2001
Class: Cleanup of Tanks using authorities other than Act 32

4
WNW
1/4-1/2
0.394 mi.
2082 ft.

833 JOECK CIR
833 JOECK CIR
WEST CHESTER, PA 19382

VCP

S118066215
N/A

Relative:
Higher

VCP:

Activity:

Activity ID: 794067,

Cleanup Records:

Municipality: West Goshen Twp
Region: Southeast Region
Category Desc: Fuel Oil No 2
Type: Complete Sites
LRP Acct: 48112
Remediation: Statewide Health Standard
Activity: NO
Date Approved: 08/06/2015
Date Received: Not reported
Date Nonuse: Not reported
ICS Code: Not reported
Media: Soil
Latitude: Not reported
Longitude: Not reported

5
North
1/4-1/2
0.412 mi.
2178 ft.

1030 WARREN RD RES
1030 WARREN RD
WEST GOSHEN TWP., PA

UNREG LTANKS

S105918482
N/A

Relative:
Lower

UNREG LTANKS:

Region: South East
Contaminant: FUEL OIL #2
Closed: Not reported
Class: Cleanup of Tanks using authorities other than Act 32

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

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: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 11/07/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/18/2016
	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: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 11/07/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/18/2016
	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: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 11/07/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/18/2016
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 03/26/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/08/2015	Telephone: 703-603-8704
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 10/09/2015
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/18/2016
	Data Release Frequency: Varies

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: 11/23/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 03/07/2016
	Data Release Frequency: Quarterly

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: 11/23/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 03/07/2016
	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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/29/2015
Next Scheduled EDR Contact: 01/11/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 09/29/2015
Next Scheduled EDR Contact: 01/11/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 09/29/2015
Next Scheduled EDR Contact: 01/11/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 09/29/2015
Next Scheduled EDR Contact: 01/11/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 09/29/2015
Next Scheduled EDR Contact: 01/11/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

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

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 11/13/2015
Number of Days to Update: 13	Next Scheduled EDR Contact: 02/29/2016
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 09/10/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 11/24/2015
Number of Days to Update: 53	Next Scheduled EDR Contact: 03/14/2016
	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: 09/10/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 11/24/2015
Number of Days to Update: 53	Next Scheduled EDR Contact: 03/14/2016
	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: 06/22/2015	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 06/26/2015	Telephone: 202-267-2180
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 09/29/2015
Number of Days to Update: 82	Next Scheduled EDR Contact: 01/11/2016
	Data Release Frequency: Annually

State- and tribal - equivalent NPL

SHWS: Hazardous Sites Cleanup Act Site List

The Hazardous Sites Cleanup Act Site List includes sites listed on PA Priority List, sites delisted from PA Priority List, Interim Response Completed sites, and Sites Being Studied or Response Being Planned.

Date of Government Version: 10/20/2015	Source: Department Environmental Protection
Date Data Arrived at EDR: 10/21/2015	Telephone: 717-783-7816
Date Made Active in Reports: 12/08/2015	Last EDR Contact: 10/21/2015
Number of Days to Update: 48	Next Scheduled EDR Contact: 02/01/2016
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HSCA: HSCA Remedial Sites Listing

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

Date of Government Version: 04/16/2015
Date Data Arrived at EDR: 07/21/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 28

Source: Department of Environmental Protection
Telephone: 717-783-7816
Last EDR Contact: 10/23/2015
Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Varies

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

SWF/LF: Operating Facilities

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

Date of Government Version: 08/24/2015
Date Data Arrived at EDR: 08/27/2015
Date Made Active in Reports: 10/08/2015
Number of Days to Update: 42

Source: Department of Environmental Protection
Telephone: 717-787-7564
Last EDR Contact: 11/23/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Storage Tank Release Sites

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

Date of Government Version: 09/14/2015
Date Data Arrived at EDR: 09/16/2015
Date Made Active in Reports: 10/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 09/16/2015
Next Scheduled EDR Contact: 12/28/2015
Data Release Frequency: Semi-Annually

LAST: Storage Tank Release Sites

Leaking Aboveground Storage Tank Incident Reports.

Date of Government Version: 09/14/2015
Date Data Arrived at EDR: 09/16/2015
Date Made Active in Reports: 10/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 09/16/2015
Next Scheduled EDR Contact: 12/28/2015
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/13/2015
Date Data Arrived at EDR: 08/03/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 71

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 04/30/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 53

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/27/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/08/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/08/2015	Telephone: 415-972-3372
Date Made Active in Reports: 02/09/2015	Last EDR Contact: 10/30/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 02/08/2016
	Data Release Frequency: Quarterly

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: 07/28/2015	Source: EPA, Region 5
Date Data Arrived at EDR: 08/07/2015	Telephone: 312-886-7439
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 10/26/2015
Number of Days to Update: 67	Next Scheduled EDR Contact: 02/08/2016
	Data Release Frequency: Varies

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

Date of Government Version: 07/30/2015	Source: EPA Region 4
Date Data Arrived at EDR: 08/07/2015	Telephone: 404-562-8677
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 10/26/2015
Number of Days to Update: 67	Next Scheduled EDR Contact: 02/08/2016
	Data Release Frequency: Semi-Annually

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

Date of Government Version: 03/30/2015	Source: EPA Region 7
Date Data Arrived at EDR: 04/28/2015	Telephone: 913-551-7003
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 10/08/2015
Number of Days to Update: 55	Next Scheduled EDR Contact: 02/08/2016
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/30/2015	Source: EPA Region 8
Date Data Arrived at EDR: 05/05/2015	Telephone: 303-312-6271
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 10/08/2015
Number of Days to Update: 48	Next Scheduled EDR Contact: 02/08/2016
	Data Release Frequency: Quarterly

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

Date of Government Version: 07/21/2015	Source: EPA Region 10
Date Data Arrived at EDR: 07/29/2015	Telephone: 206-553-2857
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 10/26/2015
Number of Days to Update: 76	Next Scheduled EDR Contact: 02/08/2016
	Data Release Frequency: Quarterly

UNREG LTANKS: Unregulated Tank Cases

Leaking storage tank cases from unregulated storage tanks.

Date of Government Version: 04/12/2002	Source: Department of Environmental Protection
Date Data Arrived at EDR: 08/14/2003	Telephone: 717-783-7509
Date Made Active in Reports: 08/29/2003	Last EDR Contact: 08/14/2003
Number of Days to Update: 15	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 10/08/2015
Number of Days to Update: 55	Next Scheduled EDR Contact: 01/25/2016
	Data Release Frequency: Varies

UST: Listing of Pennsylvania Regulated Underground Storage Tanks

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

Date of Government Version: 09/01/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/16/2015	Telephone: 717-772-5599
Date Made Active in Reports: 10/12/2015	Last EDR Contact: 09/16/2015
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/28/2015
	Data Release Frequency: Varies

AST: Listing of Pennsylvania Regulated Aboveground Storage Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 09/01/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/16/2015	Telephone: 717-772-5599
Date Made Active in Reports: 10/12/2015	Last EDR Contact: 09/16/2015
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/28/2015
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 07/28/2015	Source: EPA Region 8
Date Data Arrived at EDR: 08/14/2015	Telephone: 303-312-6137
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 60	Next Scheduled EDR Contact: 02/08/2016
	Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 07/30/2015	Source: EPA Region 4
Date Data Arrived at EDR: 08/07/2015	Telephone: 404-562-9424
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 10/26/2015
Number of Days to Update: 67	Next Scheduled EDR Contact: 02/08/2016
	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: 07/28/2015	Source: EPA Region 5
Date Data Arrived at EDR: 08/07/2015	Telephone: 312-886-6136
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 10/26/2015
Number of Days to Update: 67	Next Scheduled EDR Contact: 02/08/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 07/21/2015	Source: EPA Region 10
Date Data Arrived at EDR: 07/29/2015	Telephone: 206-553-2857
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 10/26/2015
Number of Days to Update: 76	Next Scheduled EDR Contact: 02/08/2016
	Data Release Frequency: Quarterly

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: 02/03/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 04/30/2015	Telephone: 617-918-1313
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 10/27/2015
Number of Days to Update: 53	Next Scheduled EDR Contact: 02/08/2016
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 09/23/2014	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 10/26/2015
Number of Days to Update: 65	Next Scheduled EDR Contact: 02/08/2016
	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: 05/13/2015	Source: EPA Region 6
Date Data Arrived at EDR: 08/03/2015	Telephone: 214-665-7591
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 10/26/2015
Number of Days to Update: 71	Next Scheduled EDR Contact: 02/08/2016
	Data Release Frequency: Semi-Annually

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: 12/14/2014	Source: EPA Region 9
Date Data Arrived at EDR: 02/13/2015	Telephone: 415-972-3368
Date Made Active in Reports: 03/13/2015	Last EDR Contact: 10/30/2015
Number of Days to Update: 28	Next Scheduled EDR Contact: 02/09/2016
	Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Site Listing

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 10/20/2015
Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: No Update Planned

INST CONTROL: Institutional Controls Site Listing

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

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

Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 10/20/2015
Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: No Update Planned

AUL: Environmental Covenants Listing

A listing of sites with environmental covenants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/21/2015
Date Made Active in Reports: 12/08/2015
Number of Days to Update: 48

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 10/21/2015
Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

Date of Government Version: 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: 09/29/2015
Next Scheduled EDR Contact: 01/11/2016
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Sites

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

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/14/2015
Date Made Active in Reports: 12/08/2015
Number of Days to Update: 55

Source: Department of Environmental Protection
Telephone: 717-783-2388
Last EDR Contact: 10/14/2015
Next Scheduled EDR Contact: 01/25/2016
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

State and tribal Brownfields sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BROWNFIELDS: Brownfields Sites

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

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/21/2015
Date Made Active in Reports: 12/08/2015
Number of Days to Update: 48

Source: Department of Environmental Protection
Telephone: 717-783-1566
Last EDR Contact: 10/21/2015
Next Scheduled EDR Contact: 02/01/2016
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: 06/22/2015
Date Data Arrived at EDR: 06/24/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/23/2015
Next Scheduled EDR Contact: 01/04/2016
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF INVENTORY: Facility Inventory

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

Date of Government Version: 06/02/1999
Date Data Arrived at EDR: 07/12/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 717-787-7381
Last EDR Contact: 09/19/2005
Next Scheduled EDR Contact: 12/19/2005
Data Release Frequency: No Update Planned

HIST LF INACTIVE: Inactive Facilities List

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

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

Source: Department of Environmental Protection
Telephone: 717-787-7381
Last EDR Contact: 06/21/2005
Next Scheduled EDR Contact: 12/19/2005
Data Release Frequency: No Update Planned

HIST LF ALI: Abandoned Landfill Inventory

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/04/2005
Date Data Arrived at EDR: 01/04/2005
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 31

Source: Department of Environmental Protection
Telephone: 717-787-7564
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

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

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 11/06/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

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

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

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

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: 08/12/2015
Date Data Arrived at EDR: 09/04/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 60

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2015
Next Scheduled EDR Contact: 12/14/2015
Data Release Frequency: No Update Planned

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/12/2015
Date Data Arrived at EDR: 09/04/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 60

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/25/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

ARCHIVE UST: Archived Underground Storage Tank Sites

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

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/16/2015
Date Made Active in Reports: 10/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 09/16/2015
Next Scheduled EDR Contact: 12/28/2015
Data Release Frequency: Varies

ARCHIVE AST: Archived Aboveground Storage Tank Sites

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

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/16/2015
Date Made Active in Reports: 10/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 09/16/2015
Next Scheduled EDR Contact: 12/28/2015
Data Release Frequency: Varies

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/30/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

ACT 2-DEED: Act 2-Deed Acknowledgment Sites

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

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

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

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: 06/24/2015	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 06/26/2015	Telephone: 202-366-4555
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 09/29/2015
Number of Days to Update: 68	Next Scheduled EDR Contact: 01/11/2016
	Data Release Frequency: Annually

SPILLS: State spills

A listing of hazardous material incidents.

Date of Government Version: 09/27/2015	Source: DEP, Emergency Response
Date Data Arrived at EDR: 10/29/2015	Telephone: 717-787-5715
Date Made Active in Reports: 12/08/2015	Last EDR Contact: 10/26/2015
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/25/2016
	Data Release Frequency: Varies

Other Ascertainable Records

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

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

Date of Government Version: 06/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/26/2015	Telephone: 800-438-2474
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 09/29/2015
Number of Days to Update: 82	Next Scheduled EDR Contact: 01/11/2016
	Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 01/31/2015	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 12/11/2015
Number of Days to Update: 97	Next Scheduled EDR Contact: 03/21/2016
	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: 10/16/2015
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/25/2016
	Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/16/2015
Next Scheduled EDR Contact: 01/25/2016
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 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: 11/19/2015
Next Scheduled EDR Contact: 02/29/2016
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: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

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

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

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/10/2015
Next Scheduled EDR Contact: 02/22/2016
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: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/22/2016
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/25/2015
Next Scheduled EDR Contact: 01/04/2016
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

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

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

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

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Annually

ROD: Records Of Decision

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

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

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

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

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

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

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/22/2016
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
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/29/2015
Next Scheduled EDR Contact: 01/25/2016
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/08/2015
Next Scheduled EDR Contact: 01/25/2016
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
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: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/26/2015
Date Data Arrived at EDR: 07/10/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 95

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/07/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 07/13/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

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

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 10/29/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015
Date Data Arrived at EDR: 07/09/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/07/2015
Next Scheduled EDR Contact: 01/18/2016
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

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

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/07/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/28/2015
Next Scheduled EDR Contact: 01/11/2016
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: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
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: 10/16/2015
Next Scheduled EDR Contact: 01/25/2016
Data Release Frequency: Semi-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
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/19/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/05/2015
Next Scheduled EDR Contact: 01/18/2016
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
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 07/22/2015
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 40

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/28/2015
Next Scheduled EDR Contact: 01/11/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 07/22/2015
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 40

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/28/2015
Next Scheduled EDR Contact: 01/11/2016
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/14/2015
Date Data Arrived at EDR: 06/03/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 91

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/03/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 12/04/2015
Number of Days to Update: 97	Next Scheduled EDR Contact: 03/14/2016
	Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015	Source: EPA
Date Data Arrived at EDR: 09/09/2015	Telephone: (215) 814-5000
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 12/10/2015
Number of Days to Update: 55	Next Scheduled EDR Contact: 03/21/2016
	Data Release Frequency: Quarterly

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

Date of Government Version: 12/31/2013	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/22/2014	Telephone: 717-787-9702
Date Made Active in Reports: 09/17/2014	Last EDR Contact: 09/28/2015
Number of Days to Update: 57	Next Scheduled EDR Contact: 01/11/2016
	Data Release Frequency: Annually

DRYCLEANERS: Drycleaner Facility Locations

A listing of drycleaner facility locations.

Date of Government Version: 09/21/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/22/2015	Telephone: 717-787-9702
Date Made Active in Reports: 10/12/2015	Last EDR Contact: 09/21/2015
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/04/2016
	Data Release Frequency: Varies

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/24/2015	Telephone: 717-783-8990
Date Made Active in Reports: 08/18/2015	Last EDR Contact: 10/19/2015
Number of Days to Update: 25	Next Scheduled EDR Contact: 02/01/2016
	Data Release Frequency: Annually

MINES: Abandoned Mine Land Inventory

This data set portrays the approximate location of Abandoned Mine Land Problem Areas containing public health, safety, and public welfare problems created by past coal mining.

Date of Government Version: 10/01/2015	Source: PASDA
Date Data Arrived at EDR: 10/28/2015	Telephone: 814-863-0104
Date Made Active in Reports: 12/08/2015	Last EDR Contact: 10/28/2015
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/08/2016
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPDES: NPDES Permit Listing

A listing of facilities with an NPDES permit.

Date of Government Version: 03/28/2014

Date Data Arrived at EDR: 06/12/2014

Date Made Active in Reports: 08/05/2014

Number of Days to Update: 54

Source: Department of Environmental Protection

Telephone: 717-787-9642

Last EDR Contact: 12/09/2015

Next Scheduled EDR Contact: 03/21/2016

Data Release Frequency: Varies

UIC: Underground Injection Wells

A listing of underground injection well locations.

Date of Government Version: 09/22/2015

Date Data Arrived at EDR: 09/23/2015

Date Made Active in Reports: 10/12/2015

Number of Days to Update: 19

Source: Department of Environmental Protection

Telephone: 717-783-7209

Last EDR Contact: 09/23/2015

Next Scheduled EDR Contact: 01/04/2016

Data Release Frequency: Varies

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 Hist Auto: 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 Hist Cleaner: 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department Environmental Protection in Pennsylvania.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department Environmental Protection in Pennsylvania.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department Environmental Protection in Pennsylvania.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/16/2015
Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/13/2015
Next Scheduled EDR Contact: 01/25/2016
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: 11/02/2015
Date Data Arrived at EDR: 11/08/2015
Date Made Active in Reports: 12/09/2015
Number of Days to Update: 31

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/08/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/19/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 06/03/2015
Date Made Active in Reports: 07/20/2015
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 10/19/2015
Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/09/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List

Source: Department of Public Welfare

Telephone: 717-783-3856

Flood Zone Data: This data, 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.

State Wetlands Data: Wetlands Inventory

Source: Pennsylvania Spatial Data Access

Telephone: 610-344-6105

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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Brickhouse Environmental

APPENDIX F

LABORATORY ANALYTICAL REPORT

Brickhouse Environmental

Sample Delivery Group: L808807
Samples Received: 12/23/2015
Project Number: 14-3059-0
Description: 881 S Five Points Rd

Report To: Ms. Christina Ruble / Mr. Paul White
515 South Franklin Street
West Chester, PA 19382

Entire Report Reviewed By:



T. Alan Harvill

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



¹Cp: Cover Page	1
²Tc: Table of Contents	2
³Ss: Sample Summary	3
⁴Cn: Case Narrative	4
⁵Sr: Sample Results	5
G1 L808807-01	5
G2 L808807-02	6
G3 L808807-03	7
G4 L808807-04	8
C1 L808807-05	9
⁶Qc: Quality Control Summary	10
Total Solids by Method 2540 G-2011	10
Metals (ICP) by Method 6010B	11
Chlorinated Acid Herbicides (GC) by Method 8151	12
Pesticides (GC) by Method 8081	14
⁷Gl: Glossary of Terms	17
⁸Al: Accreditations & Locations	18
⁹Sc: Chain of Custody	19



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



G1 L808807-01 Solid

			Collected by Christina Ruble	Collected date/time 12/22/15 15:20	Received date/time 12/23/15 07:20
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG838760	1	12/29/15 11:27	12/30/15 10:33	LTB
Total Solids by Method 2540 G-2011	WG838725	1	12/28/15 15:51	12/28/15 16:00	MEL

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

G2 L808807-02 Solid

			Collected by Christina Ruble	Collected date/time 12/22/15 15:25	Received date/time 12/23/15 07:20
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG838760	1	12/29/15 11:27	12/30/15 10:36	LTB
Total Solids by Method 2540 G-2011	WG838725	1	12/28/15 15:51	12/28/15 16:00	MEL

G3 L808807-03 Solid

			Collected by Christina Ruble	Collected date/time 12/22/15 15:30	Received date/time 12/23/15 07:20
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG838760	1	12/29/15 11:27	12/30/15 10:45	LTB
Total Solids by Method 2540 G-2011	WG838725	1	12/28/15 15:51	12/28/15 16:00	MEL

G4 L808807-04 Solid

			Collected by Christina Ruble	Collected date/time 12/22/15 15:38	Received date/time 12/23/15 07:20
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG838760	1	12/29/15 11:27	12/30/15 10:48	LTB
Total Solids by Method 2540 G-2011	WG838725	1	12/28/15 15:51	12/28/15 16:00	MEL

C1 L808807-05 Solid

			Collected by Christina Ruble	Collected date/time 12/22/15 15:45	Received date/time 12/23/15 07:20
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Chlorinated Acid Herbicides (GC) by Method 8151	WG838881	1	12/29/15 08:19	12/30/15 19:58	KLM
Pesticides (GC) by Method 8081	WG838853	1	12/29/15 08:32	12/30/15 00:03	ADF
Total Solids by Method 2540 G-2011	WG838725	1	12/28/15 15:51	12/28/15 16:00	MEL



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.9		1	12/28/2015 16:00	WG838725

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.79		0.650	2.41	1	12/30/2015 10:33	WG838760
Lead	17.0		0.190	0.603	1	12/30/2015 10:33	WG838760

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.0		1	12/28/2015 16:00	WG838725

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	6.35		0.650	2.44	1	12/30/2015 10:36	WG838760
Lead	17.4		0.190	0.610	1	12/30/2015 10:36	WG838760

- 1Cp
- 2Tc
- 3Ss
- 4Cn
- 5Sr
- 6Qc
- 7Gl
- 8Al
- 9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.1		1	12/28/2015 16:00	WG838725

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	7.39		0.650	2.50	1	12/30/2015 10:45	WG838760
Lead	30.9		0.190	0.624	1	12/30/2015 10:45	WG838760

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.9		1	12/28/2015 16:00	WG838725

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	7.53		0.650	2.53	1	12/30/2015 10:48	WG838760
Lead	26.1		0.190	0.634	1	12/30/2015 10:48	WG838760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.0		1	12/28/2015 16:00	WG838725

Chlorinated Acid Herbicides (GC) by Method 8151

Analyte	Result (dry)	Qualifier	MDL	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
2,4-D	U		0.0230	0.0864	1	12/30/2015 19:58	WG838881
Dalapon	U		0.267	0.988	1	12/30/2015 19:58	WG838881
2,4-DB	U		0.0230	0.0864	1	12/30/2015 19:58	WG838881
Dicamba	U		0.0230	0.0864	1	12/30/2015 19:58	WG838881
Dichloroprop	U		0.0230	0.0864	1	12/30/2015 19:58	WG838881
Dinoseb	U		0.0230	0.0864	1	12/30/2015 19:58	WG838881
MCPA	U		2.16	8.02	1	12/30/2015 19:58	WG838881
MCP	U		2.16	8.02	1	12/30/2015 19:58	WG838881
2,4,5-T	U		0.0230	0.0864	1	12/30/2015 19:58	WG838881
2,4,5-TP (Silvex)	U		0.0230	0.0864	1	12/30/2015 19:58	WG838881
(S) 2,4-Dichlorophenyl Acetic Acid	97.3			23.5-129		12/30/2015 19:58	WG838881

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.00135	0.0247	1	12/30/2015 00:03	WG838853
Alpha BHC	U		0.00136	0.0247	1	12/30/2015 00:03	WG838853
Beta BHC	U		0.00160	0.0247	1	12/30/2015 00:03	WG838853
Delta BHC	U		0.00143	0.0247	1	12/30/2015 00:03	WG838853
Gamma BHC	U		0.00145	0.0247	1	12/30/2015 00:03	WG838853
Chlordane	U		0.0390	0.247	1	12/30/2015 00:03	WG838853
4,4-DDD	U		0.00156	0.0247	1	12/30/2015 00:03	WG838853
4,4-DDE	U		0.00154	0.0247	1	12/30/2015 00:03	WG838853
4,4-DDT	U		0.00200	0.0247	1	12/30/2015 00:03	WG838853
Dieldrin	U		0.00152	0.0247	1	12/30/2015 00:03	WG838853
Endosulfan I	U		0.00149	0.0247	1	12/30/2015 00:03	WG838853
Endosulfan II	U		0.00160	0.0247	1	12/30/2015 00:03	WG838853
Endosulfan sulfate	U		0.00151	0.0247	1	12/30/2015 00:03	WG838853
Endrin	U		0.00157	0.0247	1	12/30/2015 00:03	WG838853
Endrin aldehyde	U		0.00129	0.0247	1	12/30/2015 00:03	WG838853
Endrin ketone	U		0.00165	0.0247	1	12/30/2015 00:03	WG838853
Hexachlorobenzene	U		0.00124	0.0247	1	12/30/2015 00:03	WG838853
Heptachlor	U		0.00154	0.0247	1	12/30/2015 00:03	WG838853
Heptachlor epoxide	U		0.00161	0.0247	1	12/30/2015 00:03	WG838853
Methoxychlor	U		0.00178	0.0247	1	12/30/2015 00:03	WG838853
Toxaphene	U		0.0360	0.494	1	12/30/2015 00:03	WG838853
(S) Decachlorobiphenyl	76.9			10.0-143		12/30/2015 00:03	WG838853
(S) Tetrachloro-m-xylene	91.8			29.2-144		12/30/2015 00:03	WG838853

Total Solids by Method 2540 G-2011

[L808807-01,02,03,04,05](#)

Method Blank (MB)

(MB) 12/28/15 16:00

Analyte	MB Result	MB Qualifier	MB RDL
Total Solids	0.000300		

L808807-01 Original Sample (OS) • Duplicate (DUP)

(OS) 12/28/15 16:00 • (DUP) 12/28/15 16:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Total Solids	82.9	83.1	1	0.245		5

Laboratory Control Sample (LCS)

(LCS) 12/28/15 16:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 12/30/15 09:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.65	2.00
Lead	U		0.19	0.500

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/30/15 09:36 • (LCSD) 12/30/15 09:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	100	98.6	100	99	80-120			2	20
Lead	100	99.9	97.8	100	98	80-120			2	20

L808846-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/30/15 09:42 • (MS) 12/30/15 09:51 • (MSD) 12/30/15 09:54

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	5.95	97.7	106	92	100	1	75-125			9	20
Lead	100	11.6	106	113	95	101	1	75-125			6	20



Method Blank (MB)

(MB) 12/30/15 16:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2,4-D	U		0.0230	0.0700
Dalapon	U		0.267	0.800
2,4-DB	U		0.0230	0.0700
Dicamba	U		0.0230	0.0700
Dichloroprop	U		0.0230	0.0700
Dinoseb	U		0.0230	0.0700
MCPA	U		2.16	6.50
MCPP	U		2.16	6.50
2,4,5-T	U		0.0230	0.0700
2,4,5-TP (Silvex)	U		0.0230	0.0700
(S) 2,4-Dichlorophenyl Acetic Acid	93.0			23.5-129

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/30/15 17:08 • (LCSD) 12/30/15 17:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,4,5-T	0.1667	0.147	0.145	88.2	87.0	44.9-111			1.29	21.5
2,4,5-TP (Silvex)	0.1667	0.148	0.145	88.7	86.8	48.4-110			2.15	25.9
2,4-D	0.1667	0.153	0.150	92.0	89.7	40.0-112			2.49	24.8
2,4-DB	0.1667	0.136	0.136	81.5	81.7	33.8-126			0.260	27.8
Dalapon	0.1667	0.137	0.133	82.0	80.0	36.7-119			2.49	28
Dicamba	0.1667	0.172	0.168	103	101	50.2-125			2.27	20
Dichloroprop	0.1667	0.130	0.125	77.7	75.1	39.9-99.0			3.37	20.1
Dinoseb	0.1667	0.0923	0.0881	55.4	52.9	15.6-109			4.64	40
MCPA	16.666	12.7	12.4	76.4	74.4	34.7-110			2.68	31.7
MCPP	16.666	12.5	12.1	75.0	72.8	41.0-121			2.96	24.9
(S) 2,4-Dichlorophenyl Acetic Acid				99.5	100	23.5-129				

L809089-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/30/15 18:13 • (MS) 12/30/15 18:26 • (MSD) 12/30/15 18:39

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4,5-T	0.1667	ND	0.153	0.150	91.5	90.2	1	26.5-114			1.51	36



L809089-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/30/15 18:13 • (MS) 12/30/15 18:26 • (MSD) 12/30/15 18:39

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4,5-TP (Silvex)	0.1667	ND	0.151	0.151	90.3	90.5	1	29.5-111			0.230	37.7
2,4-D	0.1667	ND	0.164	0.156	98.6	93.7	1	14.9-129			5.12	40
2,4-DB	0.1667	ND	0.151	0.151	90.7	90.3	1	10.0-141			0.470	40
Dalapon	0.1667	ND	0.141	0.135	84.8	81.1	1	17.5-118			4.53	40
Dicamba	0.1667	ND	0.172	0.173	103	104	1	17.0-146			0.400	36.9
Dichloroprop	0.1667	ND	0.123	0.123	73.5	74.0	1	27.8-95.9			0.690	34.1
Dinoseb	0.1667	ND	0.123	0.117	73.8	70.3	1	10.0-119			4.83	40
MCPA	16.666	ND	15.5	15.3	92.9	91.7	1	14.3-134			1.31	40
MCPP	16.666	ND	11.2	13.2	66.9	79.3	1	10.0-147			17.0	40
(S) 2,4-Dichlorophenyl Acetic Acid					105	94.1		23.5-129				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) 12/29/15 17:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00135	0.0200
Alpha BHC	U		0.00136	0.0200
Beta BHC	U		0.00160	0.0200
Delta BHC	U		0.00143	0.0200
Gamma BHC	U		0.00145	0.0200
4,4-DDD	U		0.00156	0.0200
4,4-DDE	U		0.00154	0.0200
4,4-DDT	U		0.00200	0.0200
Dieldrin	U		0.00152	0.0200
Endosulfan I	U		0.00149	0.0200
Endosulfan II	U		0.00160	0.0200
Endosulfan sulfate	U		0.00151	0.0200
Endrin	U		0.00157	0.0200
Endrin aldehyde	U		0.00129	0.0200
Endrin ketone	U		0.00165	0.0200
Heptachlor	U		0.00154	0.0200
Heptachlor epoxide	U		0.00161	0.0200
Hexachlorobenzene	U		0.00124	0.0200
Methoxychlor	U		0.00178	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	59.8			10.0-143
(S) Tetrachloro-m-xylene	78.5			29.2-144

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/29/15 16:49 • (LCSD) 12/29/15 17:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0647	0.0558	97.0	83.6	65.8-124			14.8	20
Alpha BHC	0.0667	0.0665	0.0583	99.8	87.4	65.7-126			13.2	20
Beta BHC	0.0667	0.0601	0.0523	90.1	78.5	57.6-137			13.9	20
Delta BHC	0.0667	0.0672	0.0587	101	88.0	65.7-124			13.5	20
Gamma BHC	0.0667	0.0640	0.0561	96.0	84.1	64.5-121			13.2	20
4,4-DDD	0.0667	0.0652	0.0560	97.8	83.9	65.6-122			15.2	20
4,4-DDE	0.0667	0.0651	0.0560	97.6	84.0	61.9-132			15.0	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/29/15 16:49 • (LCSD) 12/29/15 17:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4,4-DDT	0.0667	0.0589	0.0504	88.4	75.6	57.6-125			15.6	20
Dieldrin	0.0667	0.0645	0.0557	96.6	83.6	64.1-122			14.5	20
Endosulfan I	0.0667	0.0648	0.0559	97.2	83.7	62.0-121			14.9	20
Endosulfan II	0.0667	0.0622	0.0540	93.3	80.9	64.2-117			14.2	20
Endosulfan sulfate	0.0667	0.0601	0.0523	90.1	78.5	58.3-128			13.8	20
Endrin	0.0667	0.0602	0.0524	90.3	78.6	53.6-127			13.9	20
Endrin aldehyde	0.0667	0.0479	0.0450	71.8	67.4	37.4-130			6.25	20
Endrin ketone	0.0667	0.0591	0.0512	88.6	76.7	63.0-121			14.4	20
Heptachlor	0.0667	0.0635	0.0552	95.1	82.7	66.4-118			14.0	20
Heptachlor epoxide	0.0667	0.0631	0.0547	94.6	82.0	60.6-132			14.3	20
Hexachlorobenzene	0.0667	0.0621	0.0545	93.2	81.7	57.6-131			13.1	20
Methoxychlor	0.0667	0.0560	0.0490	84.0	73.5	54.8-131			13.3	20
(S) Decachlorobiphenyl				67.5	67.1	10.0-143				
(S) Tetrachloro-m-xylene				86.1	84.5	29.2-144				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L808185-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/29/15 17:26 • (MS) 12/29/15 17:38 • (MSD) 12/29/15 17:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	ND	0.0488	0.0465	73.1	69.8	1	20.2-150			4.71	20
Alpha BHC	0.0667	ND	0.0613	0.0572	91.9	85.7	1	35.3-155			6.95	20
Beta BHC	0.0667	ND	0.0555	0.0518	83.3	77.7	1	30.4-160			6.93	20
Delta BHC	0.0667	ND	0.0622	0.0582	93.3	87.3	1	27.8-160			6.68	20
Gamma BHC	0.0667	ND	0.0592	0.0552	88.8	82.7	1	32.6-149			7.08	20
4,4-DDD	0.0667	ND	0.0522	0.0498	78.3	74.7	1	33.0-145			4.73	20
4,4-DDE	0.0667	ND	0.0475	0.0455	71.3	68.3	1	26.3-151			4.29	20
4,4-DDT	0.0667	ND	0.0402	0.0381	60.3	57.2	1	11.8-145			5.40	23.8
Dieldrin	0.0667	ND	0.0551	0.0522	82.6	78.2	1	24.8-149			5.50	20
Endosulfan I	0.0667	ND	0.0561	0.0531	84.1	79.6	1	20.7-152			5.53	20
Endosulfan II	0.0667	ND	0.0564	0.0531	84.5	79.7	1	22.1-150			5.92	20
Endosulfan sulfate	0.0667	ND	0.0562	0.0528	84.3	79.1	1	24.6-151			6.29	21.5
Endrin	0.0667	ND	0.0516	0.0482	77.3	72.3	1	27.3-149			6.66	21.2
Endrin aldehyde	0.0667	ND	0.0546	0.0511	81.9	76.6	1	11.0-157			6.61	20
Endrin ketone	0.0667	ND	0.0555	0.0522	83.2	78.2	1	28.5-148			6.21	20
Heptachlor	0.0667	ND	0.0501	0.0475	75.1	71.2	1	26.7-144			5.38	20



L808185-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/29/15 17:26 • (MS) 12/29/15 17:38 • (MSD) 12/29/15 17:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Heptachlor epoxide	0.0667	ND	0.0546	0.0515	81.8	77.2	1	25.2-155			5.82	20
Hexachlorobenzene	0.0667	ND	0.0521	0.0490	78.1	73.5	1	19.0-156			6.13	20
Methoxychlor	0.0667	ND	0.0419	0.0395	62.8	59.2	1	10.0-165			5.90	25.4
(S) Decachlorobiphenyl					68.7	64.1		10.0-143				
(S) Tetrachloro-m-xylene					87.8	81.5		29.2-144				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
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The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
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Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
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Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
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Missouri	340	Wisconsin	9980939910
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Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**

