SITE CHARACTERIZATION REPORT

FORMER BLAIR AUTO REPAIR
3575 Schuylkill Road
Spring City, Pennsylvania 19475
Facility ID# 15-42616
USTIF # 2013-0002(M)

Submitted To:

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Project No. BLAIR--0001

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1.0 INTRODUCTION

This Site Characterization Report (SCR) details the investigative methods and findings of the environmental characterization performed by Coventry Environmental Associates, Inc. (CEA) at the former Blairs Automotive repair and service station facility located at 3575 Schuylkill Road in Spring City, Pennsylvania (Facility ID# 15-42616). This SCR was prepared in response to correspondence from the Pennsylvania Department of Environmental Protection (PADEP) dated April 10, 2013 requesting an environmental assessment based on the detection of dissolved phase hydrocarbons in groundwater in the excavation area of the former underground unleaded gasoline storage tanks at the site.

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2.0 SITE DESCRIPTION

2.1 Background

The subject property is the former Blairs Automotive repair and service station facility located at 3575 Schuylkill Road in Spring City, Pennsylvania (Facility ID# 15-42616), East Vincent Township, Chester County, Pennsylvania (Figures 1 and 2). The subject facility is currently comprised of approximately 3/4 acres of land with one building (automotive repair facility) and four steel aboveground storage tanks (275 to 300 gallons) utilized for storage of waste oil and heating oil.

Five 4,000 gallon fiberglass underground storage tanks (USTs) containing unleaded gasoline were removed from one excavation at the subject property in December, 2012. Soil/groundwater samples were collected from the excavation and analyzed for the PADEP short list parameters for unleaded gasoline. The post excavation soil and groundwater sample results indicated all results were below the applicable standards with the exception of low level dissolved phase impact by benzene (10.2 - 20.5 ppb) and Methyl Tertiary Butyl Ether (MTBE, 27.8 - 89.3 ppb) to the groundwater in the gasoline UST excavation (documented in the site closure report). The PADEP issued a Notice of Violation dated January 10, 2013 requiring a Site Environmental Characterization. There was no obvious leak location in the UST systems and historical records do not indicate a known release. Details regarding the closure of the USTs is provided in Appendix A.

In addition, a 2,000 gallon former heating oil tank was encountered during installation of the groundwater monitoring wells. On June 24, 2013, the 2,000 gallon heating oil UST was excavated and removed for disposal. The tank exhibited several holes and the impacted soil/backfill was removed and disposed. Post excavation soil samples indicated the absence of hydrocarbon impact above the applicable statewide health standards. Details regarding the UST

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removal and remediation is provided in a report prepared by CEA, dated September 19, 2013 (Appendix A).

The following summarizes site historical use and underground storage tank (UST) system conditions/regulatory actions. This summary is based primarily upon information provided in a report prepared by Kleeman Associates, Inc (Phase I Environmental Site Assessment & Physical Condition Survey) dated February 10, 1999.

- 1983: Gulf Oil company service station. Fiberglass USTs were installed.
- 1986: Property purchased by Blair and Stephanie Fanfera. Brand changed to Amoco in 1987 and to Texaco (Jacks Auto Service) in 1988.
- 1997: Old/upgraded tank systems and the new diesel fuel tank (poly-coated steel) were tightness tested and found to be tight. The USTs were upgraded to 1998 DEP specifications including automatic leak monitoring and spill/overfill protection. Tank conditions on this date are as follows:

  001-005, five 4,000 gallon single wall fiberglass USTs containing unleaded gasoline,

  006, 10,000 gallon, steel, diesel fuel UST removed,

  007, 4,000 gallon, steel, kerosene UST removed,

  008, 2,000 gallon heating oil UST was reported to have been removed in 1988, however, the tank was encountered and removed in 2013, as detailed previously.

  009, 10,000 ploy-coated steel, diesel, UST installed in area of previous diesel UST.
- Post excavation soil sample results from the 1997 UST removals were below PADEP standards (closure report submitted to the PADEP, no regulatory action).
- 2002: UST system tightness testing indicated that the tanks passed and automatic tank monitoring indicated no leakage until the tank systems were taken out of service in October, 2008 due to the station building having been damaged by fire.

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- December, 2012: The existing five 4,000 gallon fiberglass USTs containing unleaded gasoline and the 10,000 gallon, poly-coated steel diesel UST were closed by removal of the complete system (tanks, lines and dispensers) by CEA, Inc..

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2.2 Site Geology and Environmental Setting

The project area is located within a mixed commercial and residential setting (see Appendix B, site reconnaissance map). The subject facility and immediate area of the site is served by the public water supply and sanitary sewage systems. The closest surface water body to the site is a small tributary stream to the Schuylkill River located approximately 1,000 feet north of the subject property. Topographic gradient at the site exhibits a moderate downward gradient to the northeast toward this tributary stream.

Based on the review of the EDR search report no nearby leaking underground storage tank (LUST) sites of concern for the subject site were identified. Review of the PADEP Environmental Facility Application Compliance Tracking System (EFACTS) for the referenced property provided no facility data. The EDR report is provided in Appendix C.

Based on published literature and field observation of subsurface materials during boring installation, the bedrock at the site is comprised primarily of reddish brown shale with limited interbedded siltstone of the Triassic Brunswick Formation (see Figure 3.0, geology map). Competent bedrock was encountered at a depth of approximately 16 to 33 feet below grade surface (bgs). Materials overlying the competent bedrock have been completely weathered to a silt and clay. Bedrock exposures in the site vicinity were not encountered during site reconnaissance. Available published data on the structural conditions of the Brunswick Formation in the general area indicates that the bedrock formation strikes to the east-northeast with a dip to the north of 14 degrees.

CEA conducted slug testing in three site wells (MW-4, MW-7, MW-8) to determine the hydraulic conductivity of the subsurface materials at the site. The Bouwer and Rice slug test method was utilized. This test method was developed to measure aquifer hydraulic conductivity around

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boreholes in partially penetrating and partially screened wells in unconfined aquifers. The test method included introducing a slug into the well, measuring the recovery of the water level to static condition. The resulting values for hydraulic conductivity (k) are summarized in Table 3.0 and ranges between 3.5 x 10-5 and 1 x 10-6 cm/sec which corresponds closely to the observed subsurface material which is a shale/siltstone.

2.3 Sensitive Receptor Survey/Well Search

The following provides a discussion of the possible sensitive receptors at the subject property via potential exposure pathways. There is no currently known impact to any receptor in the site vicinity.

Basement/subgrade Areas: Residential and commercial properties located near the site have basement or subgrade areas. The depth to the water table at the site has ranged between approximately 10 and 30 feet bgs, below the depth of the basement floors and consequently the potential for impact is extremely limited. Additionally, soil and groundwater analytical results indicate compound concentrations below the PADEP residential screening values for protection of indoor air.

Surface water: The closest surface water body to the site is a small tributary stream to the Schuylkill River located approximately 1,000 feet north of the subject property. Topographic and groundwater flow gradient at the site exhibits a moderate downward gradient to the northeast toward this tributary stream. Due to the substantial distance from the subject site, the potential for impact is extremely limited.

Underground Utilities: Two notable underground utilities which are present in the project area include the sanitary and stormwater sewers. Based on the anticipated depth of these sewer lines of eight feet or less, the potential for infiltration of impacted groundwater is extremely limited.

Groundwater Wells: Based on a well search performed by EDR (Appendix C) and discussion with a representative of the subject facility, the site and general area is served by the public water supply system for a potable source of water. However, based on the well search and area

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reconnaissance, while the general area is served by the public water supply system, groundwater supply wells are utilized in the general project area. Per discussion with the Township of East Vincent there is no ordinance limiting or excluding the installation/use of private groundwater supply wells. However, the Chester County health department does require a permit prior to the installation of any well which intercepts the groundwater table in the county. Pursuant to PADEP technical regulations, the investigation included canvassing the site vicinity (questionnaire distributed over one half mile radius) for supply wells and receptor impacts with followup investigation/testing. A public supply well owned by Pennsylvania American water Company (PAWC) was identified by the EDR search a little over a quarter mile west of the site, however, based on information provided by PAWC, a supply well is not present at that location. Three private groundwater supply wells were identified and sampled for water quality. Two wells (Barner,, 80 Mennonite Church Road and The Depository, 25 Mennonite Church Road) were located approximately one quarter mile west of the project site and the third well was located immediately west of the site across Schuylkill Road (French residence). Analytical results (see Appendix D) indicated the absence of detectable concentrations (Not Detectable). With the exception of the French residence well, no private or public groundwater supply wells were located in the immediate site vicinity and consequently, potential impact to groundwater supply wells is very limited.

Soil: The impacted soil detected during the UST excavation did not exceed the applicable PADEP standards and consequently is not a concern for exposure at the subject site. Pursuant to the applicable regulatory requirements, a soil quality investigation is not required to be performed at the site.

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3.0 ENVIRONMENTAL CHARACTERIZATION

3.1 Groundwater Quality

Between June 4, 2013 and July 23, 2014 CEA installed a total of eleven monitoring wells (air rotary and hollow stem auger drilling methods). The monitoring wells were installed to depths ranging between 25 and 35 feet bgs (see Appendix D for drilling logs).

Following well installation, approximately three well volumes of water was purged from all site monitoring wells (or the well was bailed dry and allowed to recharge) and a groundwater sample was collected within the upper two feet of the water column from each well utilizing new, dedicated polyethylene bailers on numerous occasions (July, 2013 through August, 2014) and immediately placed in laboratory provided, sterile containers and delivered to ALS Laboratories, Inc. in an iced cooler for analysis. The water samples were analyzed for the PADEP-UST required parameters for unleaded gasoline parameters.

Analytical results of the groundwater samples are summarized in tables 1.0, 2.0 and 4.0 through 14 and figures 4 through 12 show contaminant distribution at the site on May 23, 2014 and August 6, 2014. Review of the data indicates an area of groundwater impact located downgradient of the former gasoline USTs exceeding the residential statewide health standards for benzene, MTBE, 1,2,4 trimethylbenzene and 1,3,5 trimethylbenzene. With the exception of the detection of benzene exceeding the groundwater standard in monitoring well MW-8 on one occasion (August 6, 2014), the groundwater impact is limited to within site property boundaries.

The data indicates a general declining trend of groundwater contaminant concentrations in site wells with the exception of monitoring wells MW-5, MW-6 and MW-8 where the trend is increasing. This increasing trend may be indicative of plume migration downgradient, however, the higher concentrations may be a result of the influence of water table fluctuation.

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3.3 Groundwater Flow Assessment

Upon completion of the monitoring wells, the top of PVC casing in each well was surveyed to a common on-site datum and the depth to the water level in each well was measured on numerous occasions. The following summarizes the groundwater measurements and well elevation data on May 23, 2014 and August 28, 2014. All site water level data is provided in the summary tables.

	May 23, 2014		August 28, 2014	
Well #/ PVC Elevation	**Depth to Water (FT)**	**W.L. Elevation (FT)**	**Depth to Water (FT)**	**W.L. Elevation (FT)**
MW-1 (100.00)	14.30	85.70	19.55	80.49
MW-2 (100.07)	18.65	81.42	24.30	75.77
MW-3 (98.00)	18.50	79.50	23.72	74.28
MW-4 (97.50)	18.40	79.10	23.40	74.10
MW-5 (96.23)	18.88	77.35	24.13	72.10
MW-6 (90.73)	14.06	76.67	25.50	65.15
MW-7 (99.70)	17.95	81.75	24.40	75.30
MW-8 (96.09)	18.70	77.39	29.87	66.22
MW-9 (90.20)	13.90	76.30	25.10	65.10
MW-10 (88.73)	12.27	76.46	23.93	64.80
MW-11 (87.97)	--	--	23.92	64.05

The above data was utilized to calculate water table elevations in each well and thereby determine the direction of shallow groundwater flow across the site. The direction of the groundwater flow based on the water level data is shown on Figures 4.0 and 5.0. Determination of the groundwater flow direction at the site indicates that the general component of flow is to the northeast, coincident with topography and the area surface drainage system.

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3.4 Soil Vapor Intrusion Evaluation

Current storage tank regulations require the assessment of the potential for volatile organic vapor intrusion into buildings from impacted soil and groundwater in the project area. Consequently, CEA, Inc. reviewed the applicable technical guidance and decision matrices and the findings are summarized as follows.

- Inhabited buildings (residential) are located within 100 feet of the known groundwater impact.
- Based on available information, five feet of "soil-like" material is present throughout the area of concern and no readily apparent preferential pathways have been identified.
- Based on detected concentrations of contaminants in groundwater and review of the indoor air screening levels (residential volatilization to indoor air screening values), no further action is required.
- The above evaluation indicates the absence of concern for impact to indoor air quality based on the detected groundwater parameter concentrations.

3.5 Ecological Impact Evaluation

Pursuant to the Act2/storage tank technical regulations an ecological evaluation is not necessary due to the absence of two acres of exposed surface soil (0 to 2 feet depth interval).

3.6 Conceptual Site Model

Contaminant Source and Extent : Site data appears to indicate one primary area of dissolved phase groundwater impact. A dissolved phase plume composed of hydrocarbons and MTBE has been detected in the northeastern portion of the property which appears to be related to a release from the former gasoline USTs in this area. Impacted soil exceeding the residential statewide health standards has not been detected. The dissolved phase plume extends downgradient to the

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northeast. Off-site impact has been detected on one occasion in monitoring well MW-8 located on the commercial property (retail stores) north of the subject site.

Fate and Transport Assessment

Horizontal transport of contaminants in groundwater is likely to be very limited based on the measured very low hydraulic conductivity of shallow subsurface materials. However, since the shallow aquifer includes bedrock, groundwater/contaminant transport is through fractures within the bedrock which can be difficult to evaluate. Available groundwater quality data indicates that the primary area of impact is located on site property, with the exception of the commercial property to the north indicating a low concentration of benzene. Downgradient properties east of the site have not been impacted, however, review of recent groundwater analytical data may be indicative of downgradient plume migration.

CEA evaluated the groundwater flow velocity at the site utilizing Darcy's Law (V= K I/n), using an average hydraulic gradient of 0.08, average hydraulic conductivity of the shallow aquifer (0.00002 cm/sec) and an effective porosity for shale of 10 percent. Resulting groundwater flow velocity is 198 feet per year. It should be emphasized that this flow velocity is not indicative of the contaminant transport velocity which is significantly lower due primarily to adsorption of contaminants to the subsurface materials (adsorption of hydrocarbons to clay rich materials (shale) is typically very high). Since the shallow aquifer is primarily a fractured bedrock regime, computer modeling (quick domenico) of contaminant transport is not warranted (PADEP Land Recycling program guidance documentation); continued groundwater monitoring is necessary.

The data indicates a general declining trend of groundwater contaminant concentrations in site wells with the exception of monitoring wells MW-5, MW-6 and MW-8 where the trend is increasing. This increasing trend may be indicative of plume migration downgradient, however, the higher concentrations may be a result of the influence of water table fluctuation.

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Biodegradation of the contaminants is important to limit the transport of contaminants downgradient. Other processes act on the compounds in the subsurface to limit transport, including diffusion (spreading/dilution), dispersion (fluid mixing due to groundwater movement) and sorption (compounds become sorbed to organics and clay). The site data indicates that subsurface materials are comprised of low permeability shale (clay rich) which will likely exhibit a high level of contaminant sorption limiting compound transport.

Risk Assessment

An evaluation of the potential exposure pathways for the detected dissolved phase MTBE/hydrocarbon contaminants in groundwater at the site was performed and is summarized as follows. The primary area of groundwater impact by dissolved phase contaminants is located on site property. The groundwater at the subject property is not utilized and no groundwater supply wells have been identified downgradient of the site. The water table is, in general, located at substantial depth below grade and thereby significantly limiting the concern for exposure to impacted groundwater during excavation activities. There are no subgrade areas, basements or underground utilities in the immediate vicinity which could pose a concern for the accumulation and human exposure to volatile organic vapors. Lastly, there are no nearby surface water bodies in a downgradient direction. Consequently, under current and likely future conditions the potential for human exposure to impacted groundwater at the project location is very limited.

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4.0 REMEDIAL ALTERNATIVES ASSESSMENT

Numerous remedial technologies were evaluated in order to select the most appropriate technologies for potential remedial testing/implementation at the site. The technologies reviewed and brief discussion are provided as follows.

- Groundwater extraction and treatment ("Pump and Treat"): While hydraulic control of contaminant migration can be achieved with this technology, experience has shown relatively low contaminant mass recovery rates, high cost, and long periods of system operation, especially in low permeability and fractured rock subsurface conditions.
- Dual phase extraction: This technology can maintain hydraulic control, achieve moderate to high contaminant recovery rates within a moderate period of system operation and is suitable for low permeability and fractured bedrock settings. However, remedial costs can be very high and system maintenance can be extensive.
- Bioremediation (microbial innoculation including air or oxygen sparging): While this technology is potentially feasible, this remedial approach is generally a slow process, requires a high level of technical expertise to implement effectively.
- Bioremediation (groundwater extraction and treatment – bioreactor, microbial/oxygen enhancement and reinjection): While this technology is also potentially feasible, this remedial approach is generally also a slow process and requires a high level of technical expertise to implement effectively.
- Air sparging and soil vapor extraction: This technology requires a relatively dense network of sparging/vapor extraction wells in low permeability materials and associated subgrade piping system. In addition, vapor extraction would be limited in effectiveness due to the presence of the contamination below the saturated zone.
- In-well air stripping and vapor extraction: This technology performs the groundwater treatment within the recovery or monitoring well with vapor recovery to the surface for treatment prior to discharge. The technology potentially produces a groundwater flow

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gradient toward the well and thereby increasing the treatment zone for each well and reducing treatment well density requirements. Additionally, the groundwater oxygen concentrations achieved by this technology are high, achieving significant oxygenation of the subsurface, necessary for the bioremediation of MTBE. This technology has the potential to be relatively limited in construction and cost.

- Chemical Oxidation (Active ozone injection): This technology requires the installation of injection wells and ozone is generated on-site and injected daily. This technology has been documented to be effective in the treatment of MTBE. However, this technology has the potential to be relatively high in cost due to the on-site generation of ozone.
- Monitored Natural Attenuation: This technology relies on the natural physical, chemical and biological processes in the subsurface that under favorable conditions act, without intervention, to reduce the concentration of contaminants.
- Bioenhanced Natural Attenuation: For petroleum hydrocarbons in the subsurface, biological degradation is often the most important destructive mechanism. Dissolved oxygen is the most thermodynamically favored electron acceptor used in the biodegradation of MTBE and fuel hydrocarbons. This technology requires the inoculation of aqueous phase oxidants on a routine basis into the subsurface to stimulate insitu aerobic biodegradation and acts in conjunction with the processes of natural attenuation to remediate site contamination.

Based on the results of the environmental assessment at the site and the above evaluation of potential exposure pathways, the remedial action which appears to be warranted at the site is as follows. It should be emphasized that the primary concern at the site is for offsite plume migration. Natural attenuation of the groundwater contamination may be sufficient to meet compliance with the applicable regulations pursuant to a residential statewide health standard, however, active remediation by bioenhancement is warranted due to the concern for downgradient plume migration impacting offsite properties. This technology will involve the passive routine injection of aqueous phase oxidants to enhance the biodegradation of MTBE/hydrocarbons. All

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appropriate baseline and follow on water quality, geochemical and microbiological data will need to be collected to evaluate the potential and design of this technology.

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5.0 SUMMARY

The following summarizes the findings of the environmental site characterization at the former Blair auto repair and service station facility located in Spring City, Pennsylvania, detailed herein.

- Hydrogeologic assessment indicates that the subsurface is comprised primarily of highly weathered shale of the Triassic Brunswick Formation. Groundwater flow direction at the site is to the northeast, coincident with topography and the area surface drainage system.
- Findings of the groundwater quality assessment indicates one area of groundwater impact exceeding the residential statewide health standards in the shallow aquifer. An area of hydrocarbon/MTBE contamination extends from the former gasoline UST location to the area east northeast of the former UST field. The data indicates a general declining trend of groundwater contaminant concentrations in site wells with the exception of monitoring wells MW-5, MW-6 and MW-8 where the trend is increasing. This increasing trend may be indicative of plume migration downgradient, however, the higher concentrations may be a result of the influence of water table fluctuation.
- Soil vapor intrusion evaluation indicates an absence of concern for impact to indoor air quality.
- Findings of the sensitive receptor survey indicates the absence of potential sensitive receptors.
- Natural attenuation of the groundwater contamination may be sufficient to meet compliance with the applicable regulations pursuant to a residential statewide health standard, however, due to the concern for plume migration impacting offsite properties, bioenhancement with oxidants is a remedial approach which appears to warranted at the site.

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FIGURES

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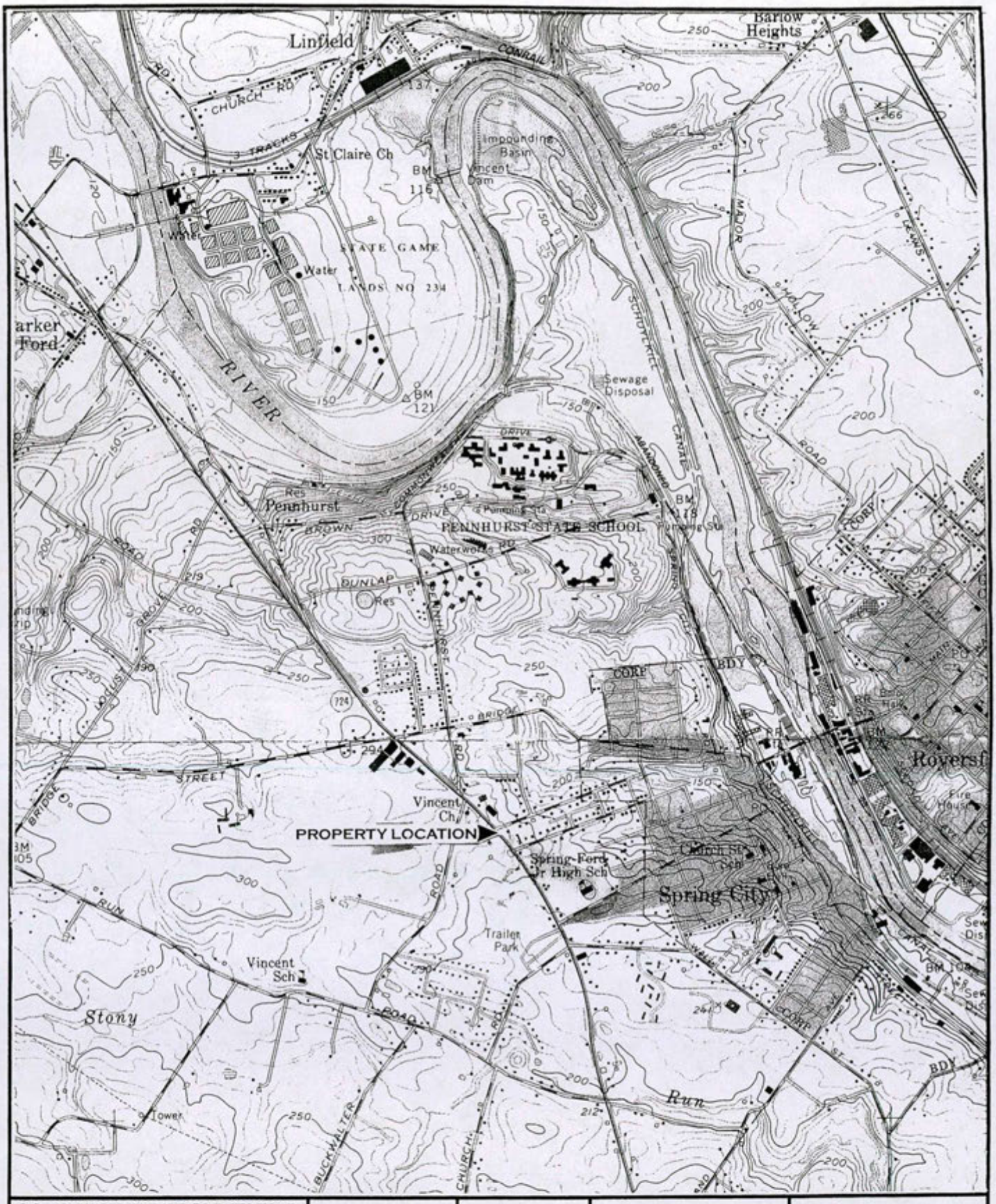

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	DATE: 9/210/12	CHECKED BY:	TITLE: SITE LOCATION MAP	NORTH

FORMER BLAIRS AUTO PROPERTY
3575 SCHUYLKILL ROAD
SPRING CITY, PENNSYLVANIA

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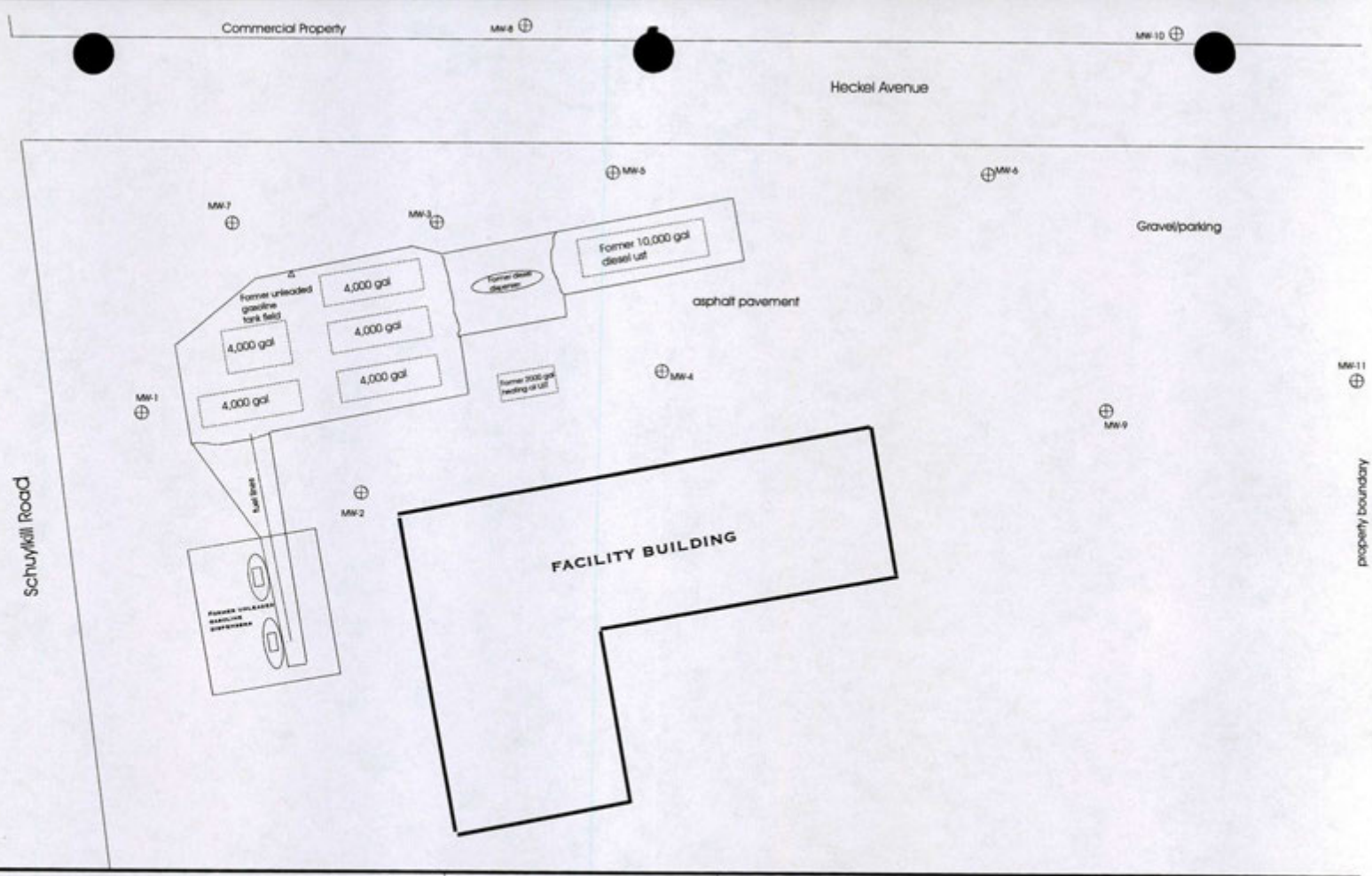

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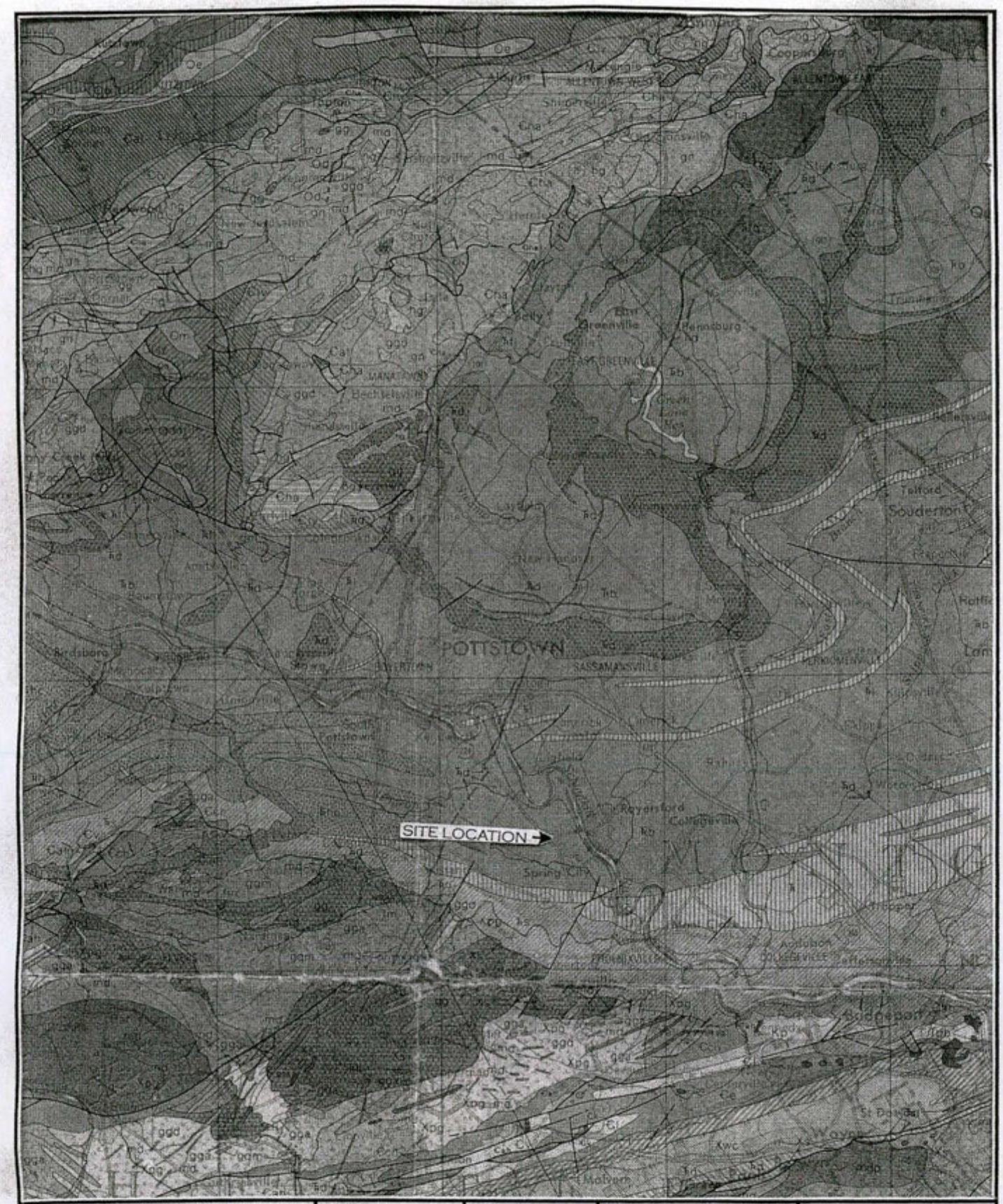

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FORMER BLAIRS AUTO PROPERTY
3575 SCHUYLKILL ROAD
SPRING CITY, PENNSYLVANIA

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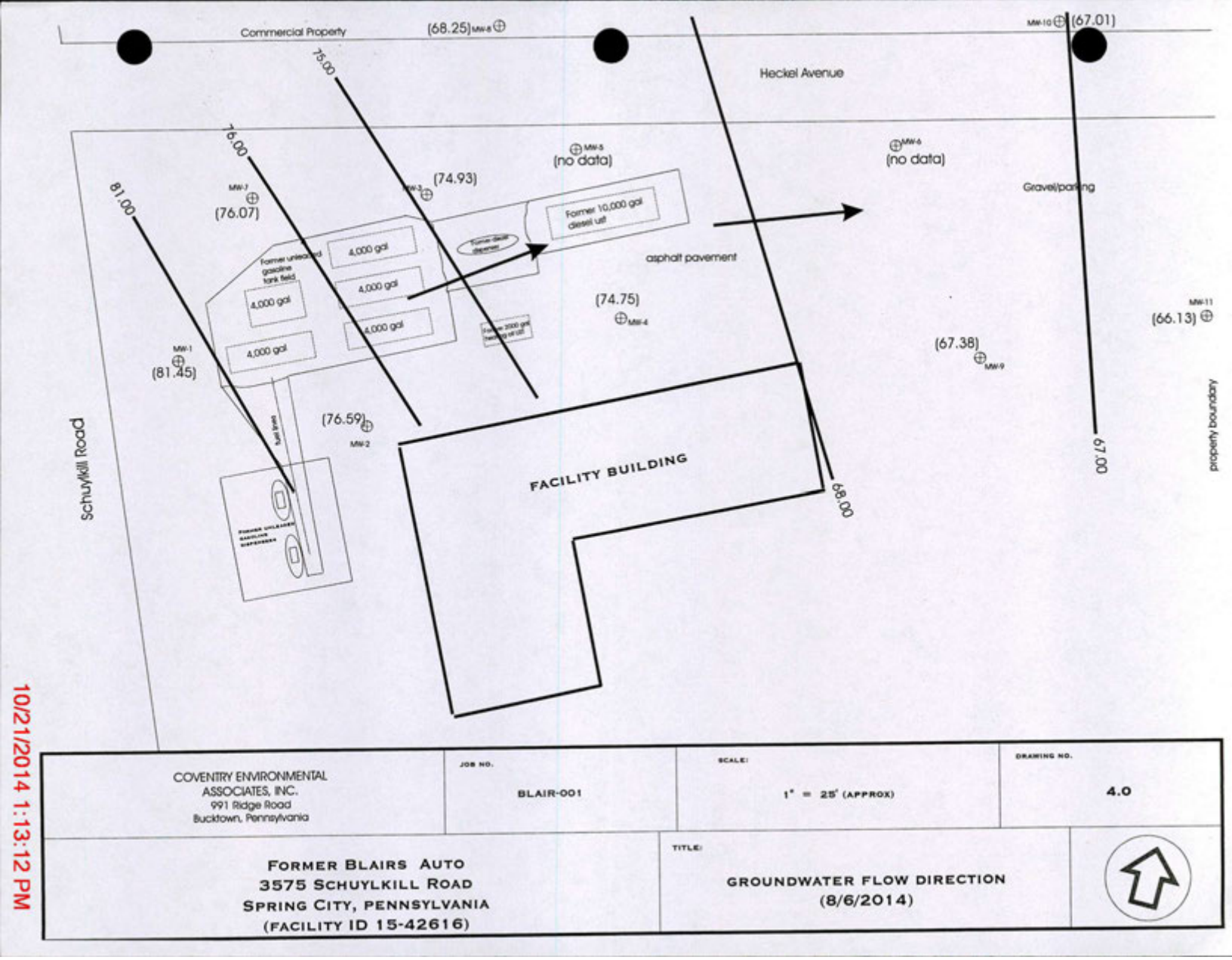

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FORMER BLAIRS AUTO 3575 SCHUYLKILL ROAD SPRING CITY, PENNSYLVANIA (FACILITY ID 15-42616)	TITLE: GROUNDWATER FLOW DIRECTION (8/6/2014)		

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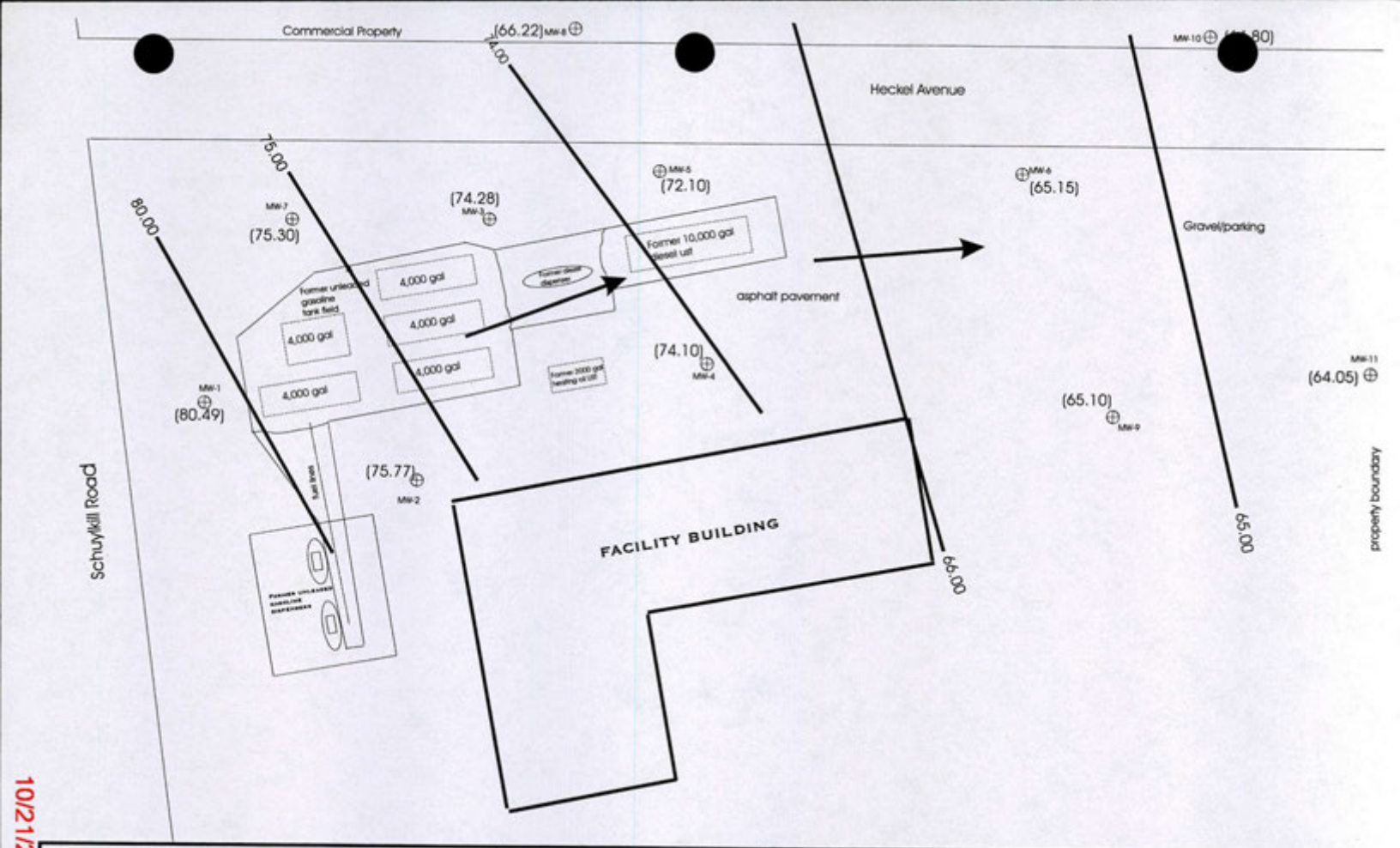

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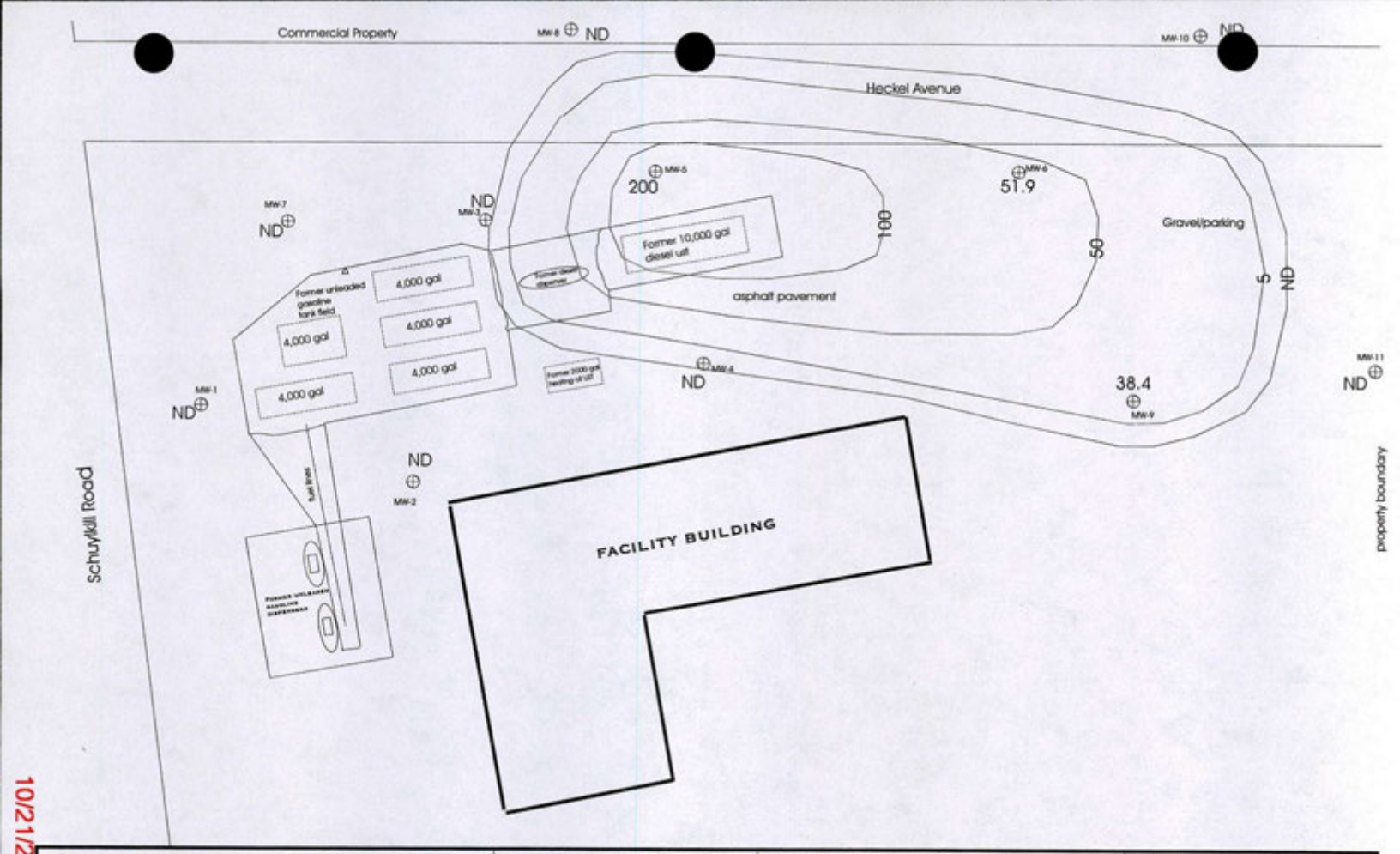

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FORMER BLAIRS AUTO 3575 SCHUYLKILL ROAD SPRING CITY, PENNSYLVANIA (FACILITY ID 15-42616)	TITLE: BENZENE ISOCONCENTRATION MAP (5/23/2014)		

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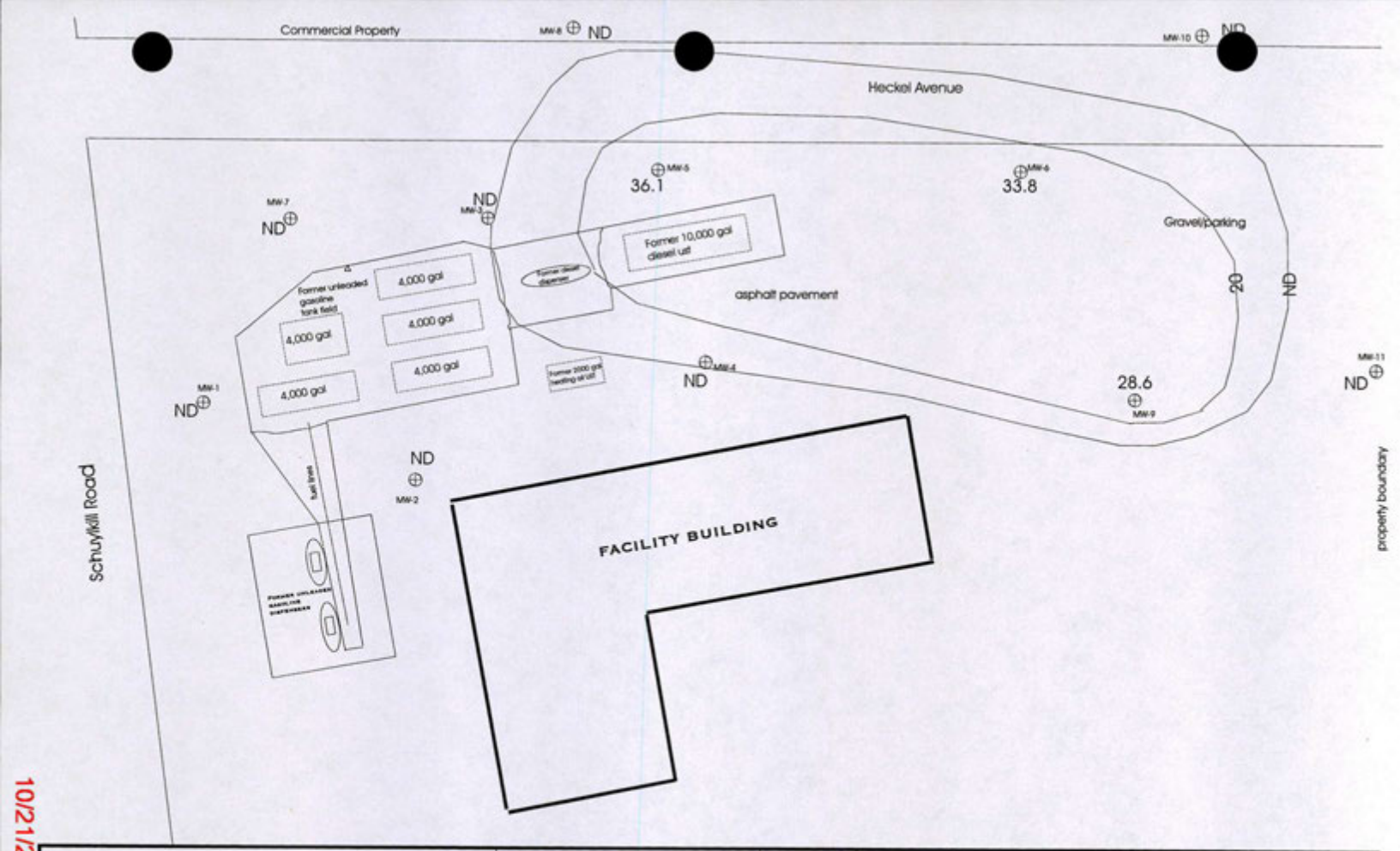

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FORMER BLAIRS AUTO 3575 SCHUYLKILL ROAD SPRING CITY, PENNSYLVANIA (FACILITY ID 15-42616)	TITLE: MTBE ISOCONCENTRATION MAP (5/23/2014)		

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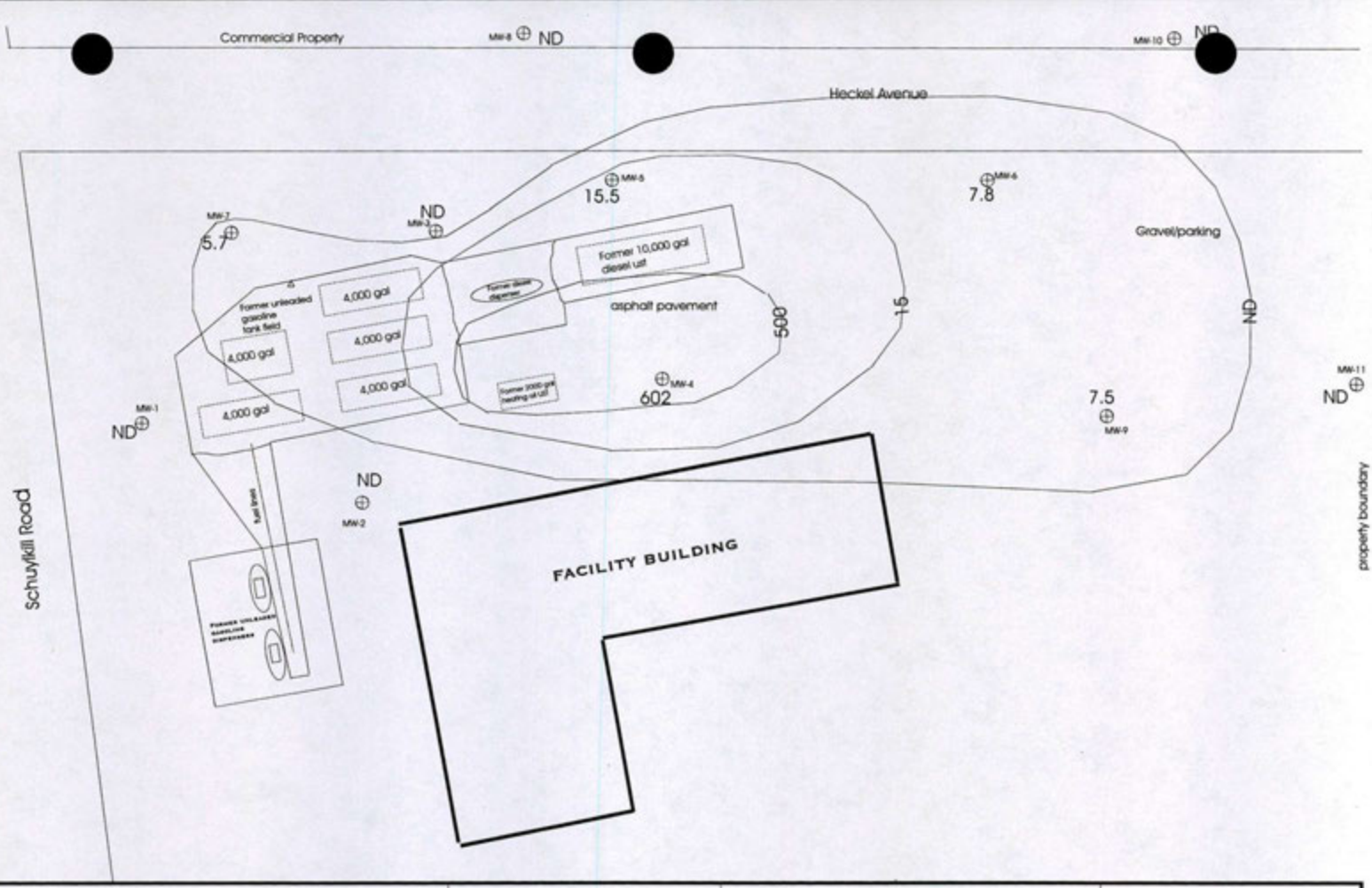

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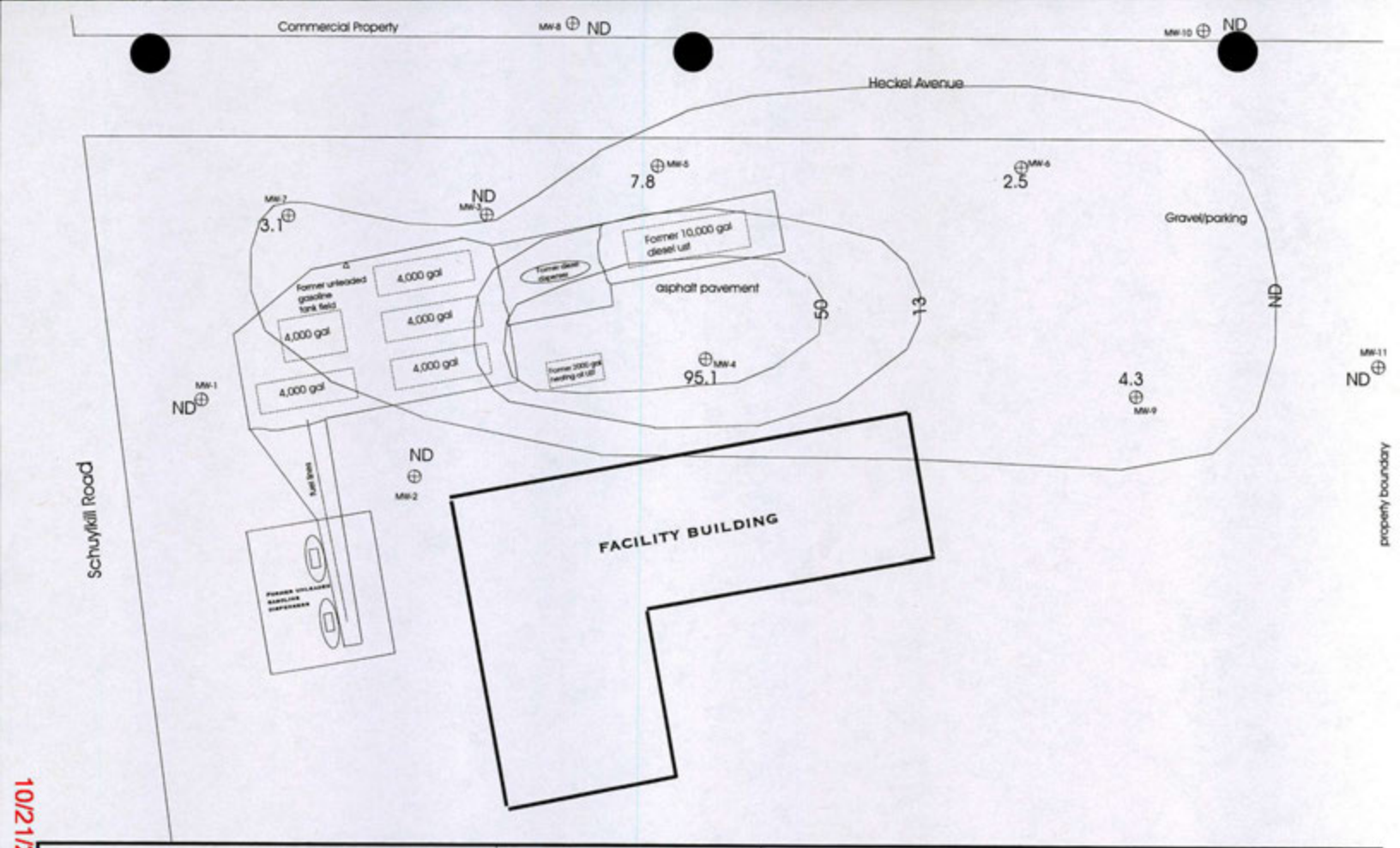

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FORMER BLAIRS AUTO 3575 SCHUYLKILL ROAD SPRING CITY, PENNSYLVANIA (FACILITY ID 15-42616)	TITLE: 1,3,5 TRIMETHYLBENZENE ISOCONCENTRATION MAP (5/23/2014)		

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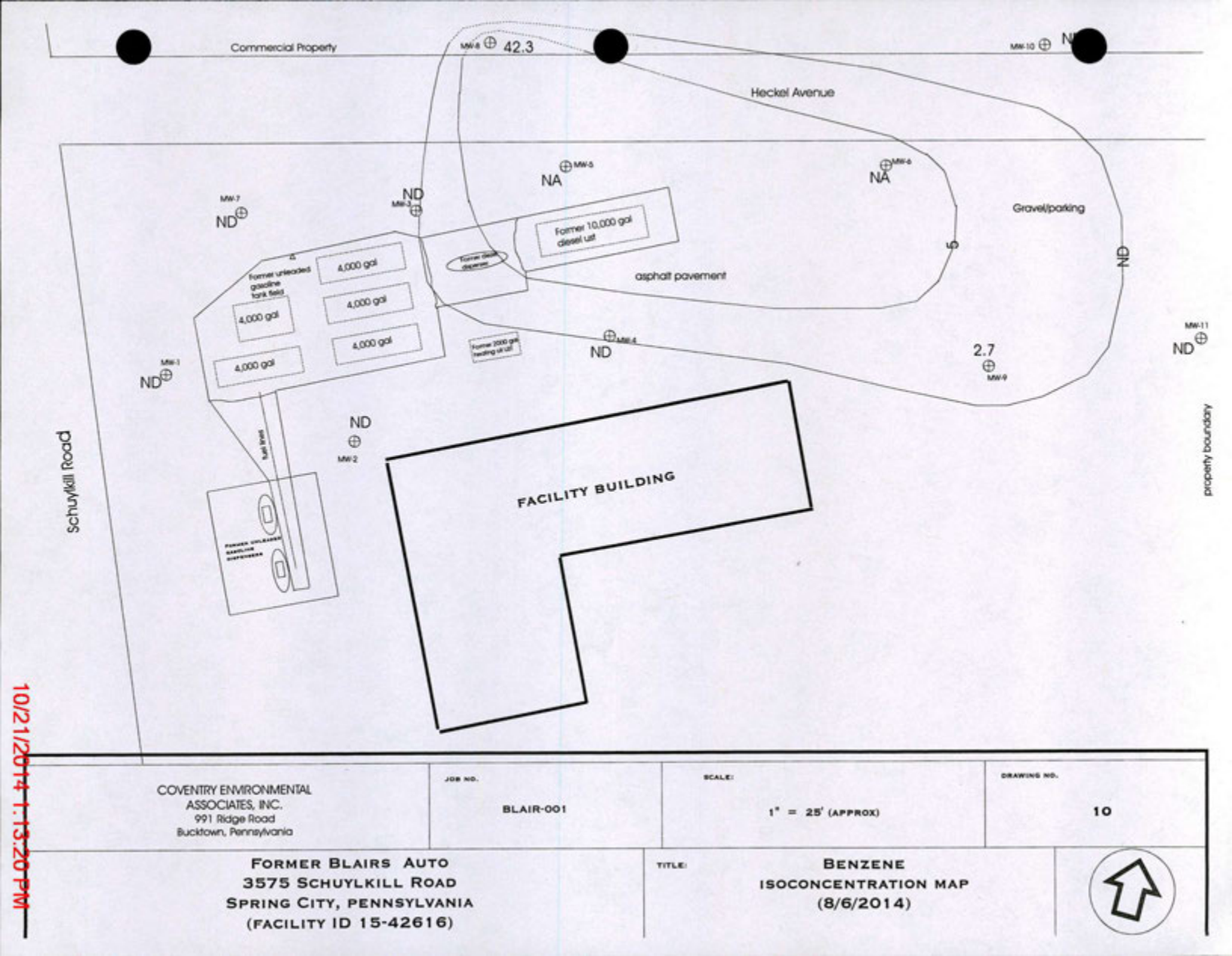

COVENTRY ENVIRONMENTAL ASSOCIATES, INC. 991 Ridge Road Bucktown, Pennsylvania	JOB NO. BLAIR-001	SCALE: 1" = 25' (APPROX)	DRAWING NO. 10
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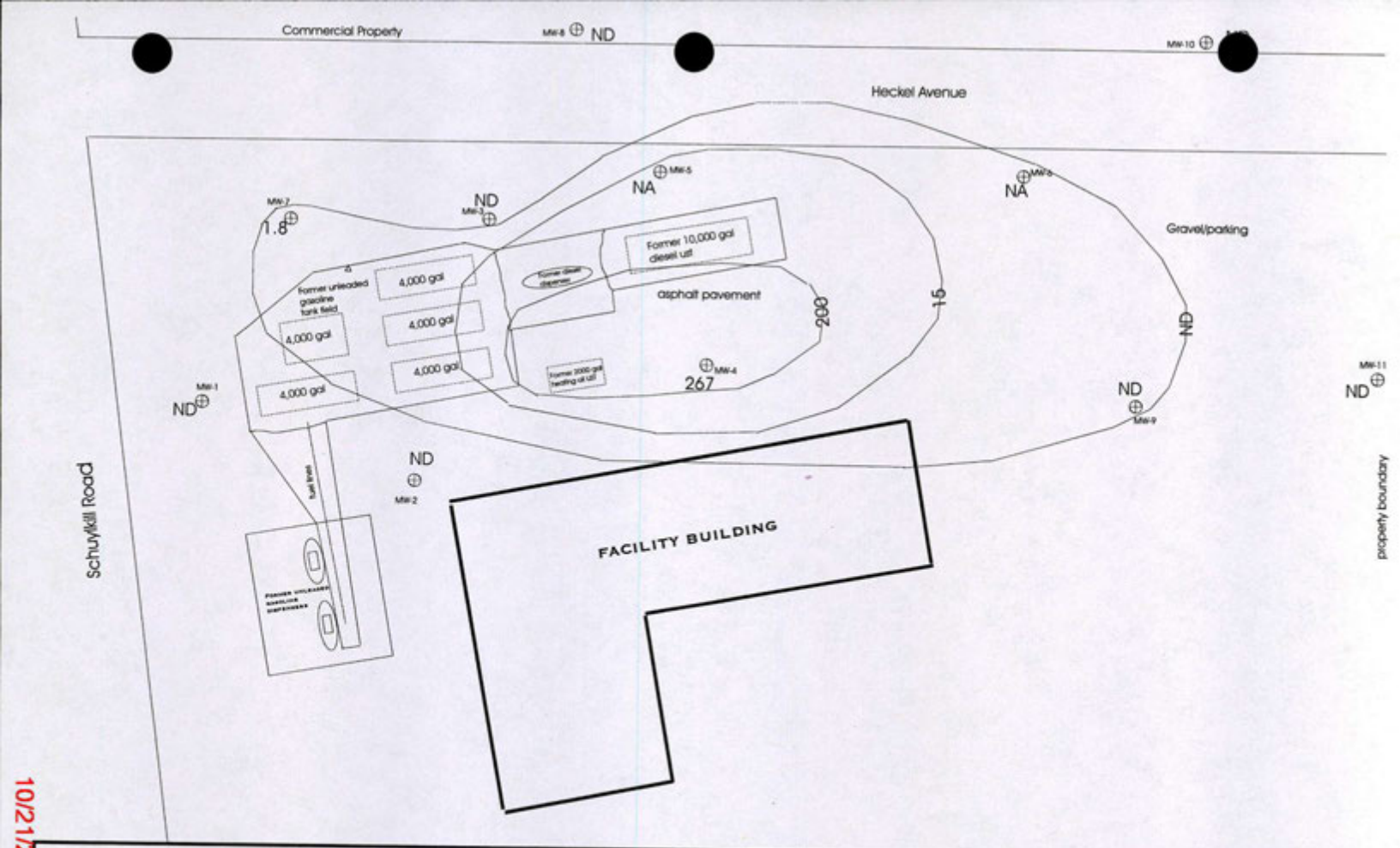

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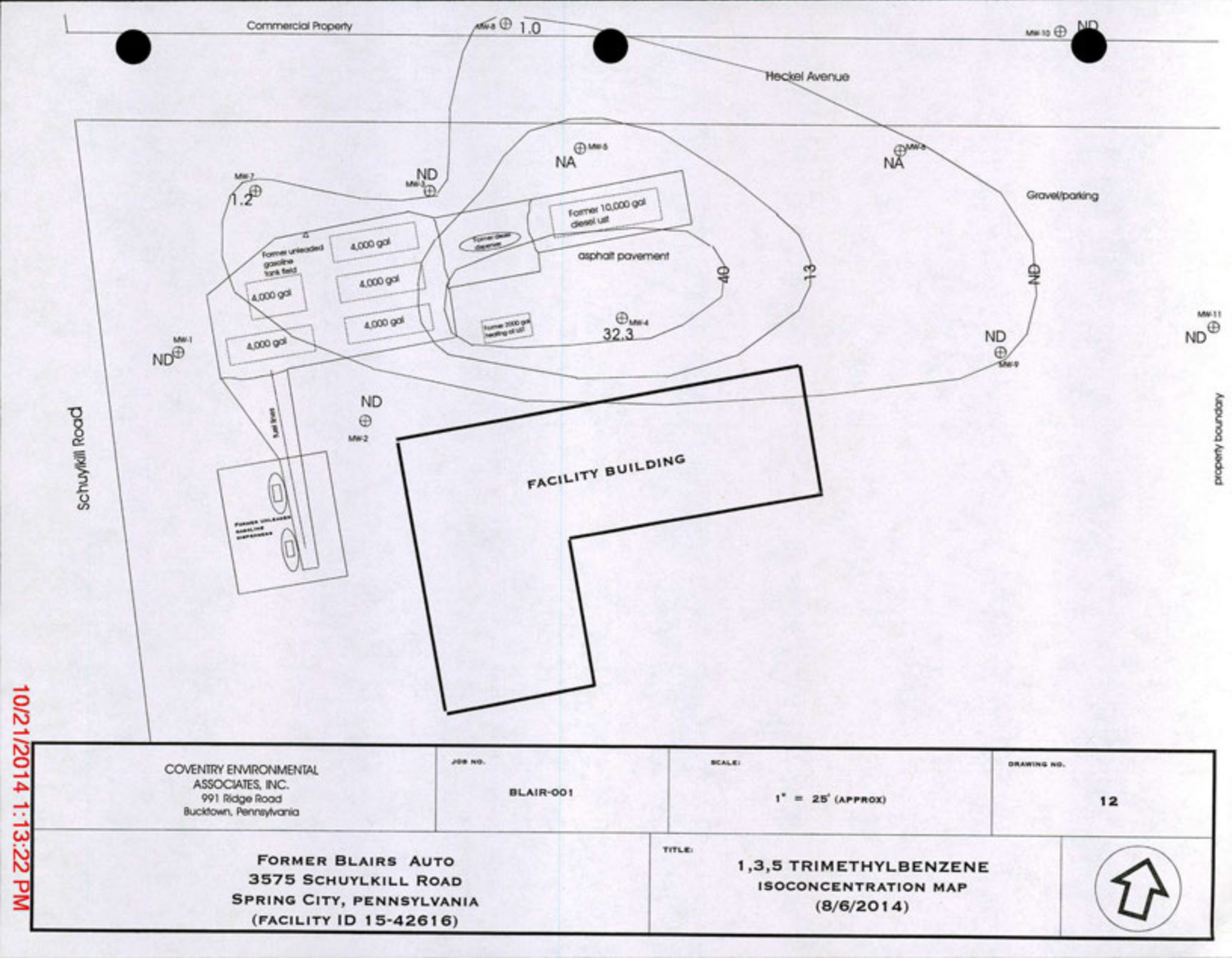

COVENTRY ENVIRONMENTAL ASSOCIATES, INC. 991 Ridge Road Bucktown, Pennsylvania	JOB NO. BLAIR-001	SCALE: 1" = 25' (APPROX)	DRAWING NO. 12
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TABLES

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Table 1
Groundwater Analytical Data Summary
(May 23, 2014)
Former Blairs Auto
Spring City, Pennsylvania

Parameter/ Sample I.D.	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	PADEP Standard*
Benzene	ND	ND	ND	ND	**200**	**51.9**	ND	ND	**38.4**	ND	5
Toluene	ND	ND	ND	ND	37.4	10.2	ND	ND	10.2	ND	1,000
Ethylbenzene	ND	ND	ND	201	54.1	7.8	ND	ND	16.3	ND	700
Xylene (Total)	ND	ND	ND	392	108	24.8	13.8	ND	9.2	ND	10,000
Cumene	ND	ND	ND	81.3	32	16.7	ND	ND	25.6	ND	840
Naphthalene	ND	ND	ND	171	47.2	15	ND	ND	14.4	ND	100
MTBE	ND	ND	ND	ND	**36.1**	**33.8**	ND	ND	**28.6**	ND	20
1,2,4 Trimethylbenzene	ND	ND	ND	**602**	**15.5**	7.8	5.7	ND	7.3	ND	15
1,3,5 Trimethylbenzene	ND	ND	ND	**95.1**	7.8	2.5	3.1	ND	4.3	ND	13

Notes: All results reported in Parts Per Billion (ppb).

* PADEP statewide health groundwater standard for a used aquifer in a residential setting.

ND Denotes Not Detected above the laboratory limit of detection.

NA Denotes Not Analyzed

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Table 2
Groundwater Analytical Data Summary
(August 6 /28, 2014)
Former Blairs Auto
Spring City, Pennsylvania

Parameter/ Sample I.D.	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11 8-6/8-28	PADEP Standard*
Benzene	ND	ND	ND	ND	NA	NA	ND	42.3	2.7	ND	ND/ND	5
Toluene	ND	ND	ND	ND	NA	NA	ND	11.8	ND	ND	ND/ND	1,000
Ethylbenzene	ND	ND	ND	142	NA	NA	ND	ND	ND	ND	ND/ND	700
Xylene (Total)	ND	ND	ND	286	NA	NA	3.8	8.9	ND	ND	ND/ND	10,000
Cumene	ND	ND	ND	57.4	NA	NA	ND	8.9	ND	ND	ND/ND	840
Naphthalene	ND	ND	ND	78.4	NA	NA	ND	9.9	ND	ND	ND/ND	100
MTBE	ND	ND	ND	ND	NA	NA	ND	ND	4.3	ND	14/9.3	20
1,2,4 Trimethylbenzene	ND	ND	ND	267	NA	NA	1.8	ND	ND	ND	ND/ND	15
1,3,5 Trimethylbenzene	ND	ND	ND	32.3	NA	NA	1.2	1	ND	ND	ND/ND	13

Notes: All results reported in Parts Per Billion (ppb).

* PADEP statewide health groundwater standard for a used aquifer in a residential setting.

ND Denotes Not Detected above the laboratory limit of detection.

NA Denotes Not Analyzed

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Table 3
Hydraulic Conductivity (K) Data Summary
(April, 2014)
Former Blair Auto
Spring City, Pennsylvania

Well I.D.	K (cm/sec)	Material	Aquifer Zone
MW-7	2.4 x 10-5	Silt/siltstone	shallow
MW-4	3.5 x 10-5	Silt/siltstone	shallow
MW-8	1 x 10-6	Shale	shallow

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Data Summary
Monitoring Well MW-1
Former Blair Auto
Spring City, Pennsylvania

PADEP Standard (ppb) Used Aquifer, Residential								5	1,000	700	10,000	840	100	20	15	13
Well ID	Date	Elev (ft)	Depth	Casing	Screen	Water Depth (ft)	GW Elevation (ft)	Benzene	Toluene	Ethylbenzene	Xylene	Cumene	Naphthalene	MTBE	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
MW-1	7/17/2013	100	35	10	25	19.56	80.44	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/5/2013					20.05	79.95	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/27/2013					21.73	78.27	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/15/2013					21.77	78.23	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/17/2014					15.45	84.55	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/21/2014					17.12	82.88	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/9/2014					12.7	87.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/23/2014					14.3	85.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/6/2014					18.55	81.45	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/2014					19.55	80.45	NA	NA	NA	NA	NA	NA	NA	NA	NA

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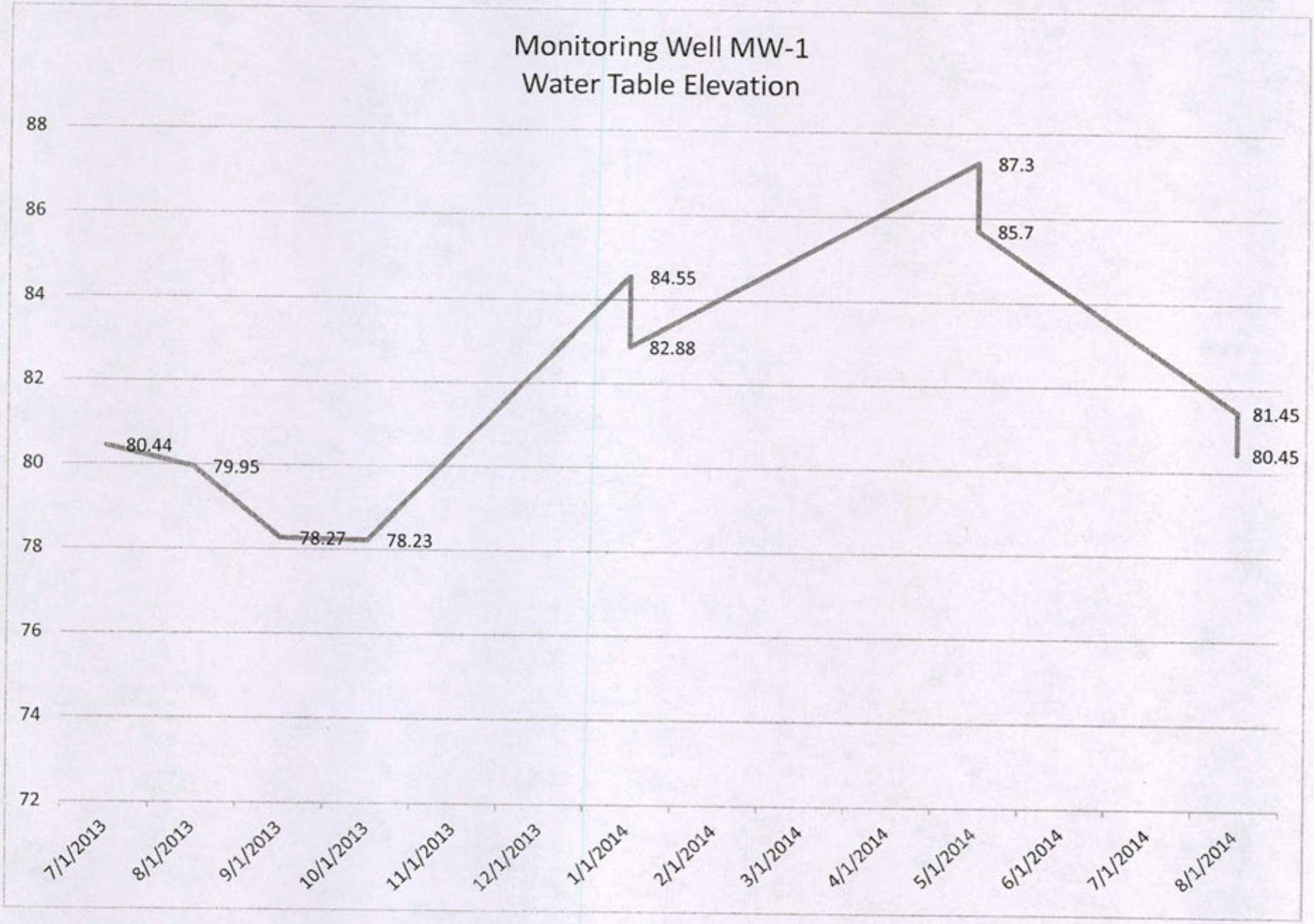

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Data Summary

Monitoring Well MW-2

Former Blair Auto

Spring City, Pennsylvania

PADEP Standard (ppb) Used Aquifer, Residential								5	1,000	700	10,000	840	100	20	15	13
Well ID	Date	Elev (ft)	Depth	Casing	Screen	Water Depth (ft)	GW Elevation (ft)	Benzene	Toluene	Ethylbenzene	Xylene	Cumene	Naphthalene	MTBE	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
MW-2	7/17/2013	100.07	35	10	25	21.47	78.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/5/2013					22.36	77.71	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/27/2013					24.5	75.57	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/15/2013					24.86	75.21	ND	ND	ND	ND	ND	ND	2.5	ND	ND
	1/17/2014					19.4	80.67	2	ND	ND	ND	ND	ND	3.3	ND	ND
	1/31/2014					21.2	78.87	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/9/2014					16.82	83.25	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/23/2014					18.65	81.42	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/6/2014					23.48	76.59	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/2014					24.3	75.77	NA	NA	NA	NA	NA	NA	NA	NA	NA

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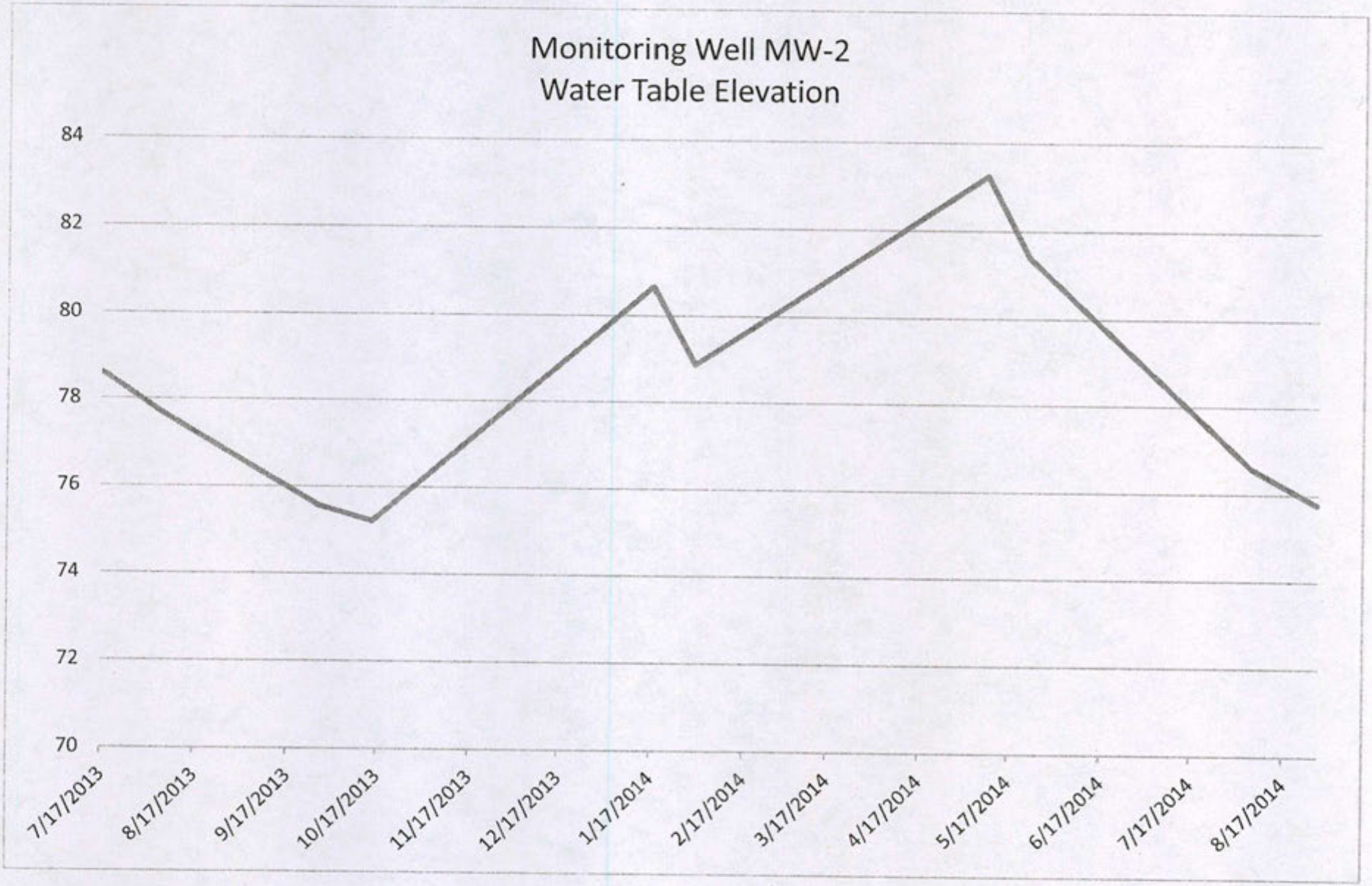

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Data Summary
Monitoring Well MW-3
Former Blair Auto
Spring City, Pennsylvania

PADEP Standard (ppb) Used Aquifer, Residential								5	1,000	700	10,000	840	100	20	15	13
Well ID	Date	Elev (ft)	Depth	Casing	Screen	Water Depth (ft)	GW Elevation (ft)	Benzene	Toluene	Ethylbenzene	Xylene	Cumene	Naphthalene	MTBE	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
MW-3	7/17/2013	98	31	11	20	21.56	76.44	**92.9**	202	102	425	11.5	29	3.5	**178**	**31.8**
	8/5/2013					22.33	75.67	**71.3**	108	69	295	11.6	27.3	2.3	**143**	**24.1**
	9/27/2013					24.13	73.87	**49.7**	29.5	9.9	109	9.2	9.3	1.6	**87.2**	**16.8**
	10/15/2013					24.33	73.67	**35.3**	41.3	ND	158	6.2	14.7	ND	**87**	**19.1**
	1/17/2014					19.23	78.77	**56.7**	74.3	67.9	366	10.3	32.5	1.8	**170**	**28.5**
	1/31/2014					21.2	76.8	**7.7**	4.9	2.1	8.7	2.1	ND	ND	9.2	1.1
	5/9/2014					16.3	81.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/23/2014					18.5	79.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/6/2014					23.04	74.96	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/2014					23.72	74.28	NA	NA	NA	NA	NA	NA	NA	NA	NA

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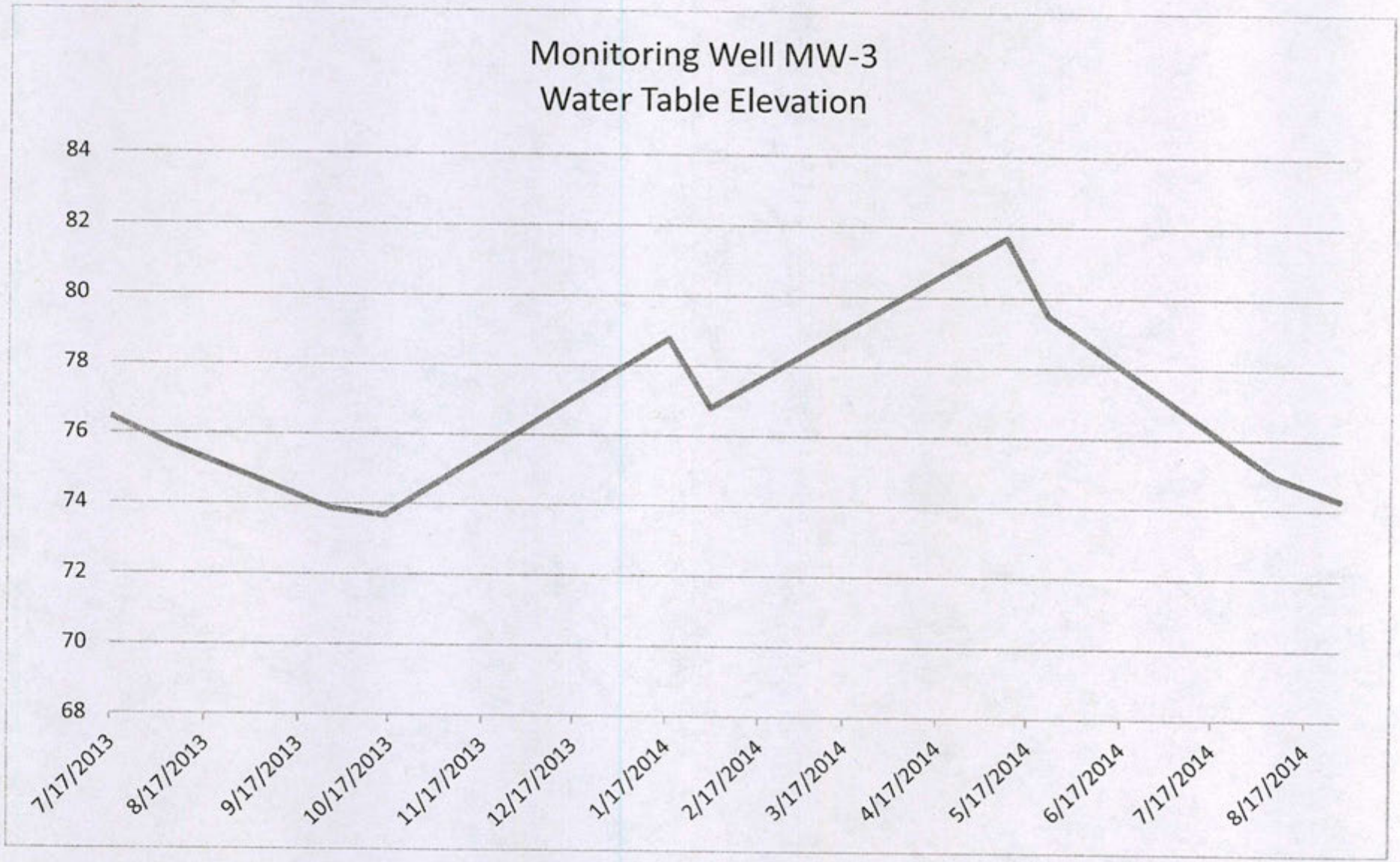

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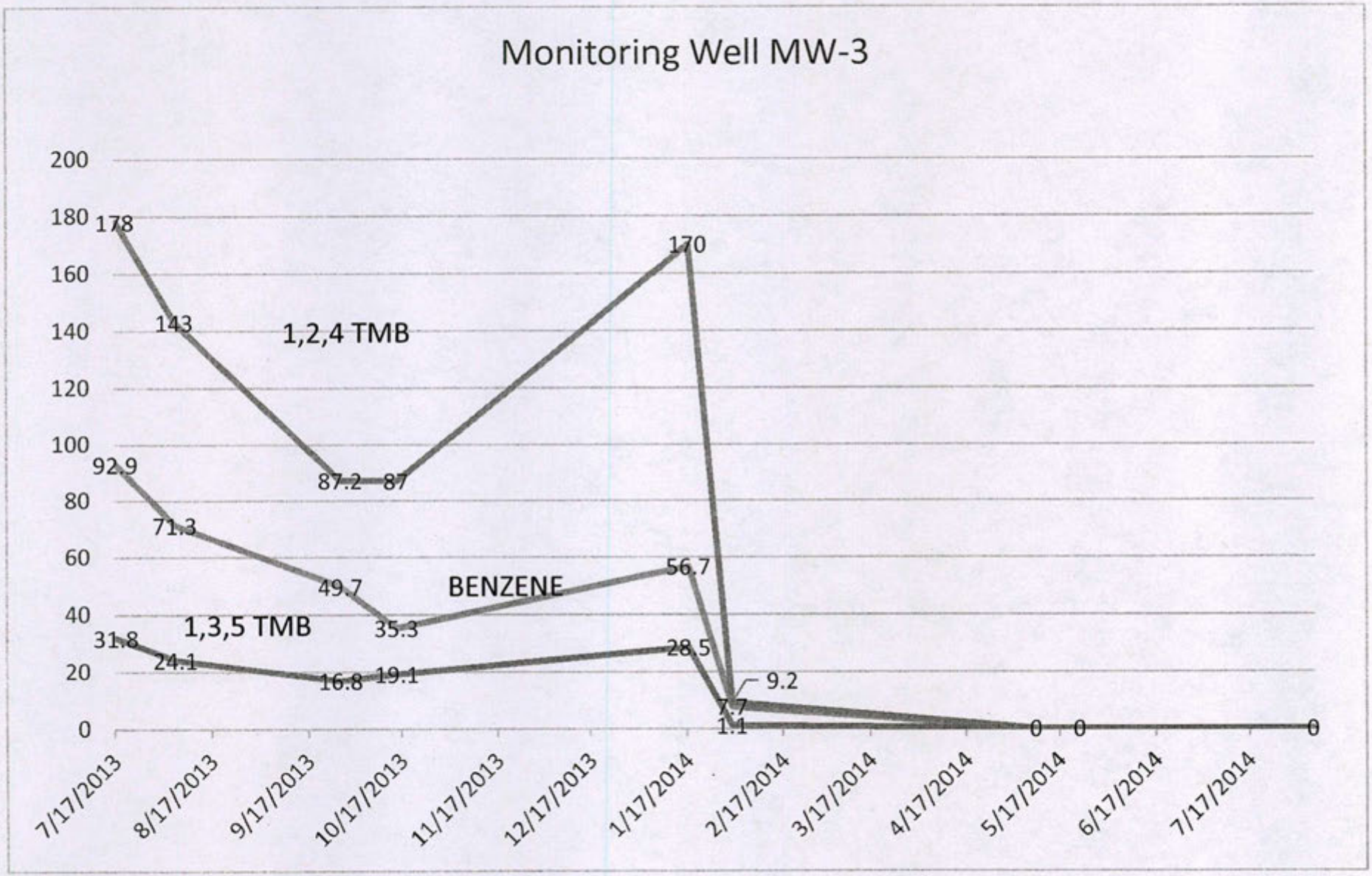

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Data Summary
Monitoring Well MW-4
Former Blair Auto
Spring City, Pennsylvania

PADEP Standard (ppb) Used Aquifer, Residential								5	1,000	700	10,000	840	100	20	15	13
Well ID	Date	Elev (ft)	Depth	Casing	Screen	Water Depth (ft)	GW Elevation (ft)	Benzene	Toluene	Ethylbenzene	Xylene	Cumene	Naphthalene	MTBE	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
MW-4	7/17/2013	97.5	30	12	18	21.27	76.23	**5.5**	ND	497	1130	109	**185**	ND	**959**	**150**
	8/5/2013					21.82	75.68	**6.2**	2.7	349	895	111	**198**	2.1	**760**	**145**
	9/27/2013					23.57	73.93	**6.3**	1.7	275	524	104	**184**	5.3	**488**	**75.4**
	10/15/2013					23.8	73.7	ND	ND	223	345	45.6	**138**	ND	**375**	**37.5**
	1/17/2014					19.3	78.2	**10.4**	ND	276	439	73.9	**151**	ND	**544**	**63.8**
	1/21/2014					20.77	76.73	ND	ND	274	565	85.1	**116**	ND	**622**	**84.6**
	5/9/2014					16.45	81.05	ND	ND	179	297	75.9	87.5	ND	**297**	**84.3**
	5/23/2014					18.4	79.1	ND	ND	201	392	81.3	**171**	ND	**602**	**95.1**
	8/6/2014					22.71	74.79	ND	ND	142	286	57.4	78.4	ND	**267**	**32.3**
	8/28/2014					23.4	74.1	NA	NA	NA	NA	NA	NA	NA	NA	NA

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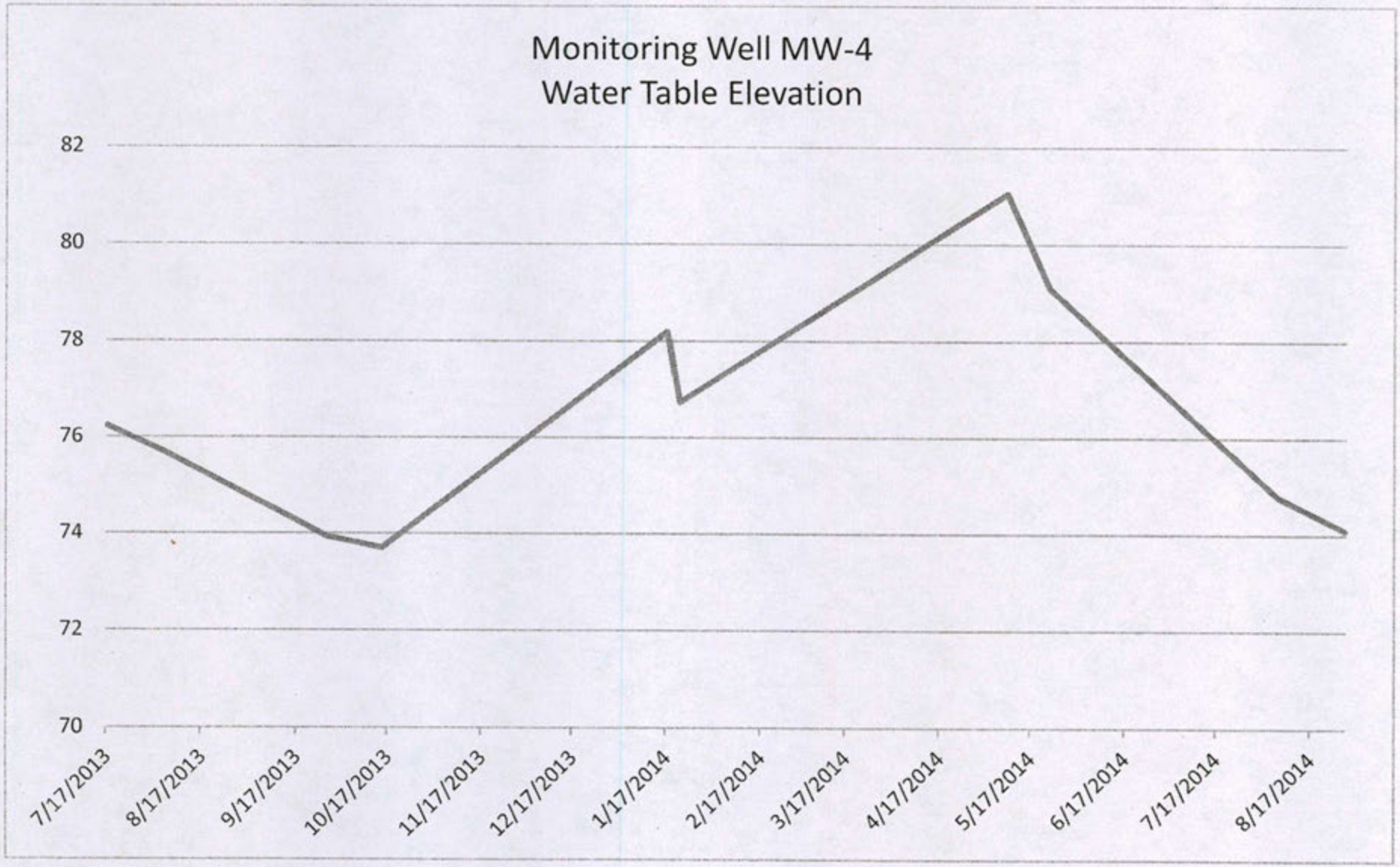

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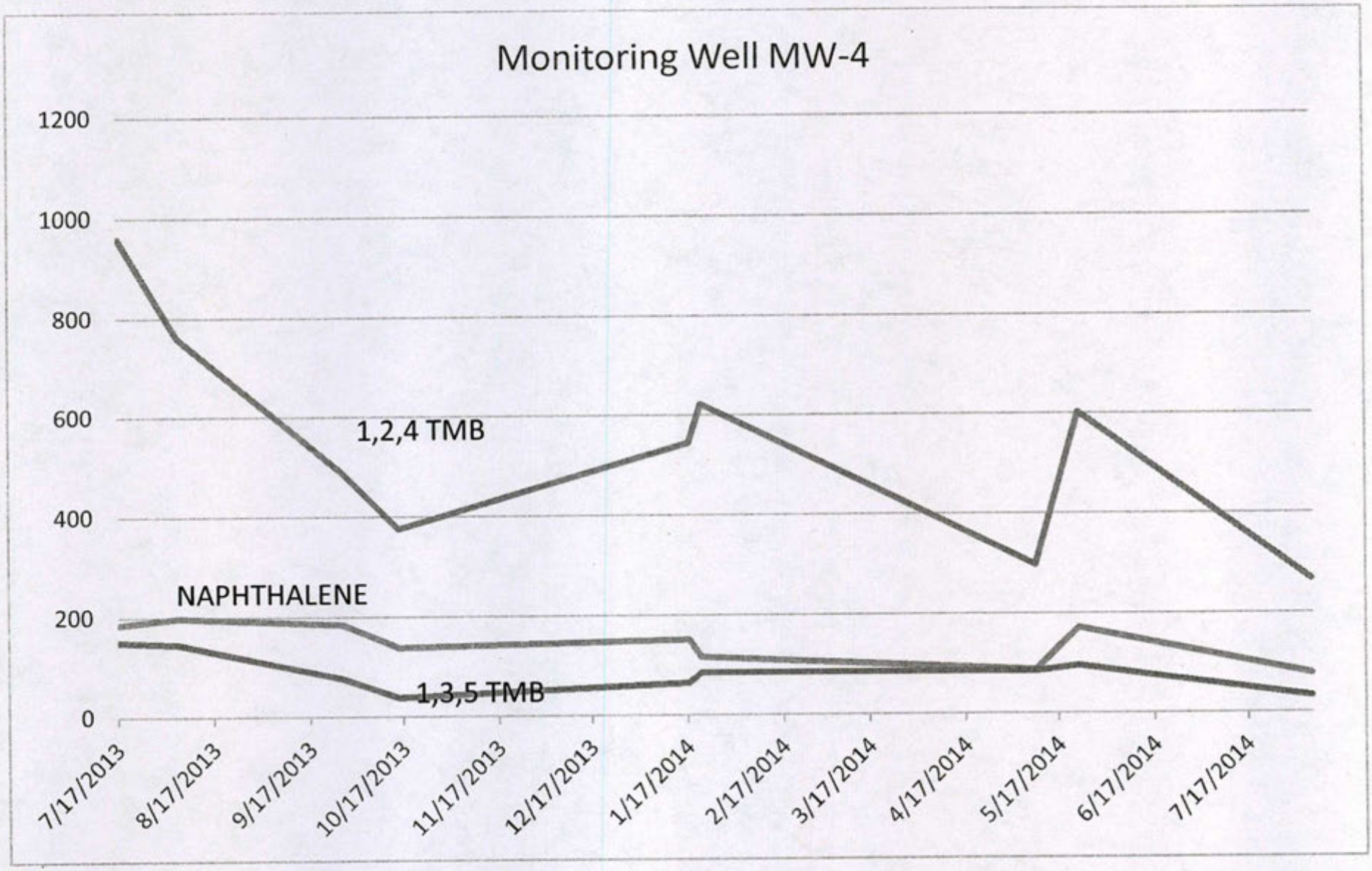

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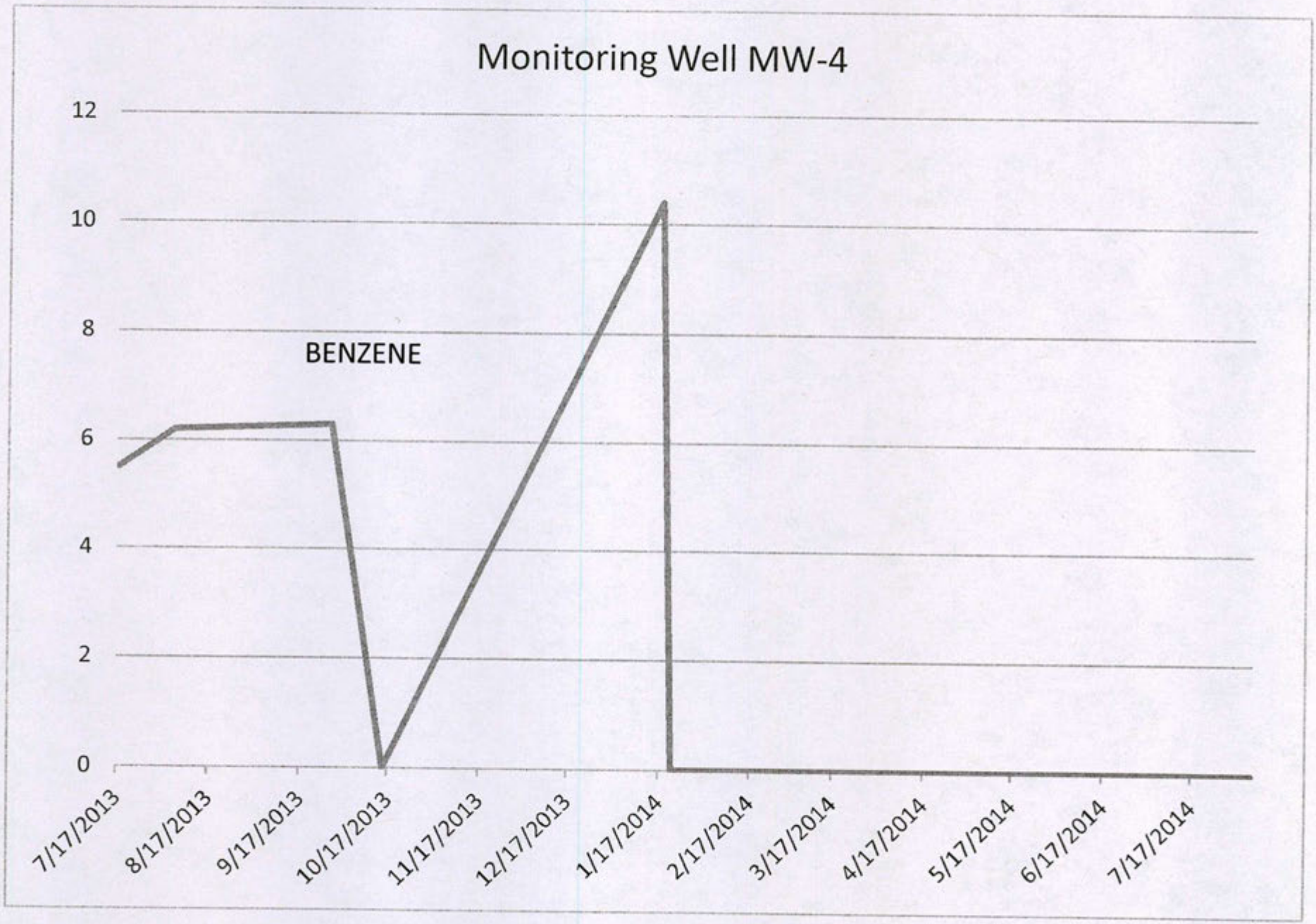

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Data Summary
Monitoring Well MW-5
Former Blair Auto
Spring City, Pennsylvania

PADEP Standard (ppb) Used Aquifer, Residential								5	1,000	700	10,000	840	100	20	15	13
Well ID	Date	Elev (ft)	Depth	Casing	Screen	Water Depth (ft)	GW Elevation (ft)	Benzene	Toluene	Ethylbenzene	Xylene	Cumene	Naphthalene	MTBE	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
MW-5	9/27/2013	96.23	25	10	15	24.2	72.03	2	ND	1.2	3.2	2.4	ND	13.8	ND	ND
	10/15/2013					24.29	71.94	ND	ND	ND	ND	ND	3.2	15.1	ND	ND
	1/17/2014					19.3	76.93	**30.3**	5.2	2.6	9.6	7.6	14.2	**24.3**	2.3	ND
	1/31/2014					21.77	74.46	**88.1**	9.8	6.5	14.7	15.4	24.5	**29.1**	ND	ND
	5/9/2014					16.46	79.77	**129**	35.2	40.8	92.5	20.7	34.2	**32.4**	11.6	5.5
	5/23/2014					18.88	77.35	**200**	37.4	54.1	108	32	47.2	**36.1**	**15.5**	7.8
	8/6/2014					NO DATA	NO DATA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/28/2014					24.13	72.1	NA	NA	NA	NA	NA	NA	NA	NA	NA

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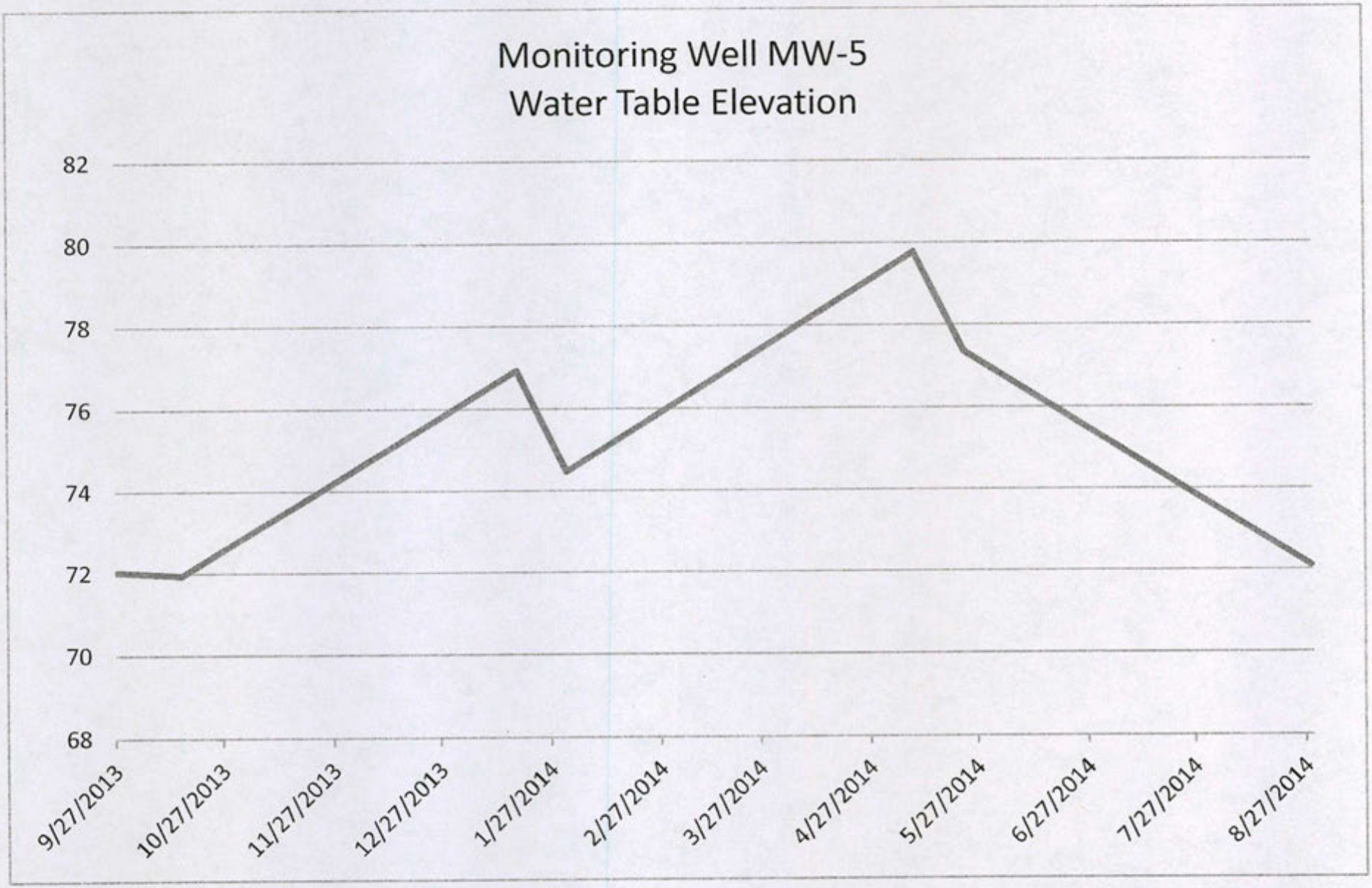

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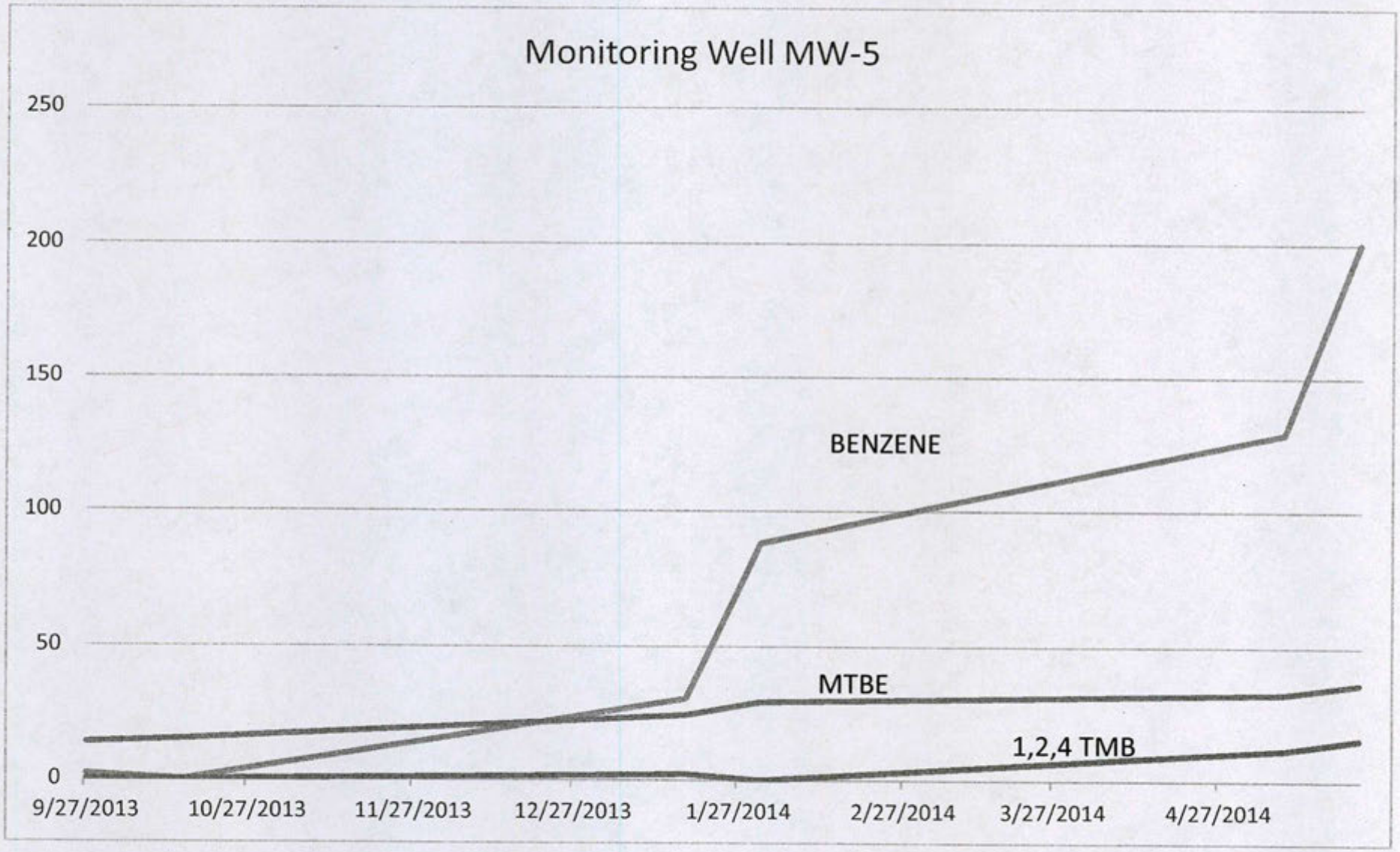

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Data Summary
Monitoring Well MW-6
Former Blair Auto
Spring City, Pennsylvania

PADEP Standard (ppb) Used Aquifer, Residential								5	1,000	700	10,000	840	100	20	15	13
Well ID	Date	Elev (ft)	Depth	Casing	Screen	Water Depth (ft)	GW Elevation (ft)	Benzene	Toluene	Ethylbenzene	Xylene	Cumene	Naphthalene	MTBE	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
MW-6	9/27/2013	90.73	30	10	20	27.9	72.03	ND	ND	ND	ND	ND	ND	3.3	ND	ND
	10/15/2013					26.77	71.94	ND	ND	ND	ND	ND	ND	3.4	ND	ND
	1/17/2014					14.55	76.93	**7.2**	9.8	ND	ND	1.9	ND	15.5	ND	ND
	1/31/2014					17.88	74.46	**41.4**	4.6	2.2	ND	22.7	ND	**24.4**	1.1	ND
	5/9/2014					11.72	79.77	ND	ND	ND	ND	ND	ND	10.5	ND	ND
	5/23/2014					14.06	77.35	**51.9**	10.2	7.8	24.8	16.7	15	**33.8**	7.8	2.5
	8/6/2014					NO DATA	NO DATA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/28/2014					25.5	72.1	NA	NA	NA	NA	NA	NA	NA	NA	NA

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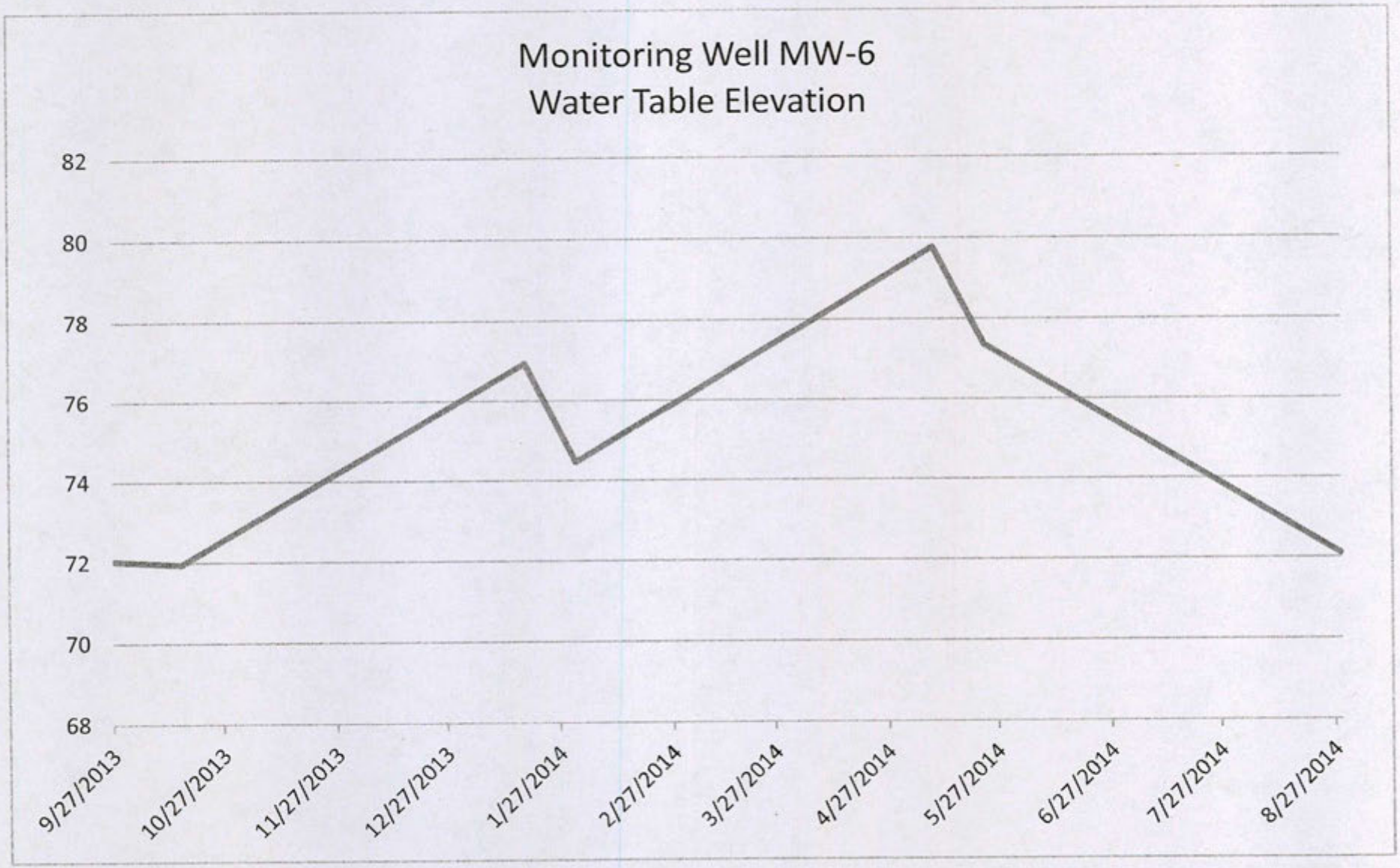

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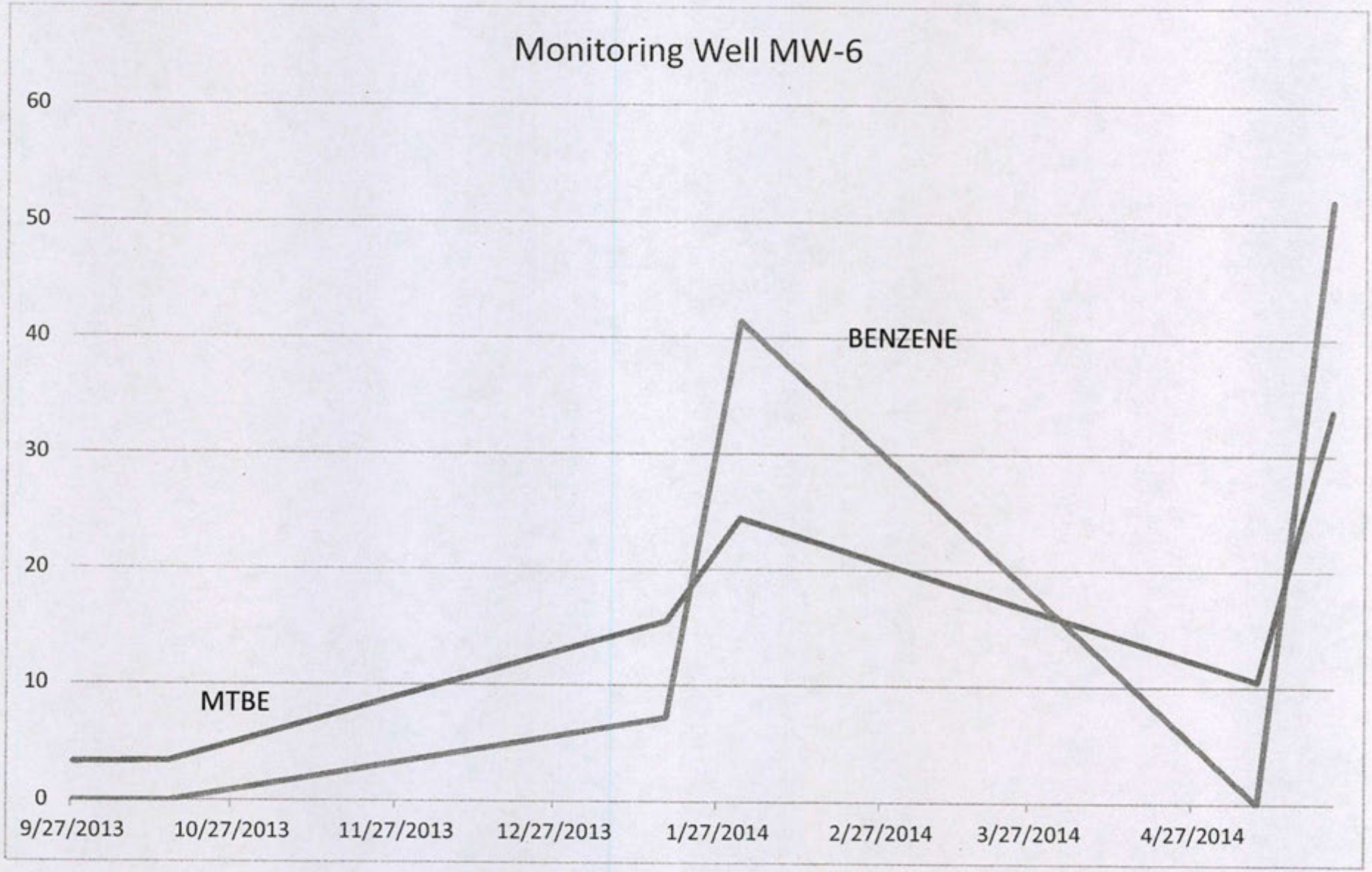

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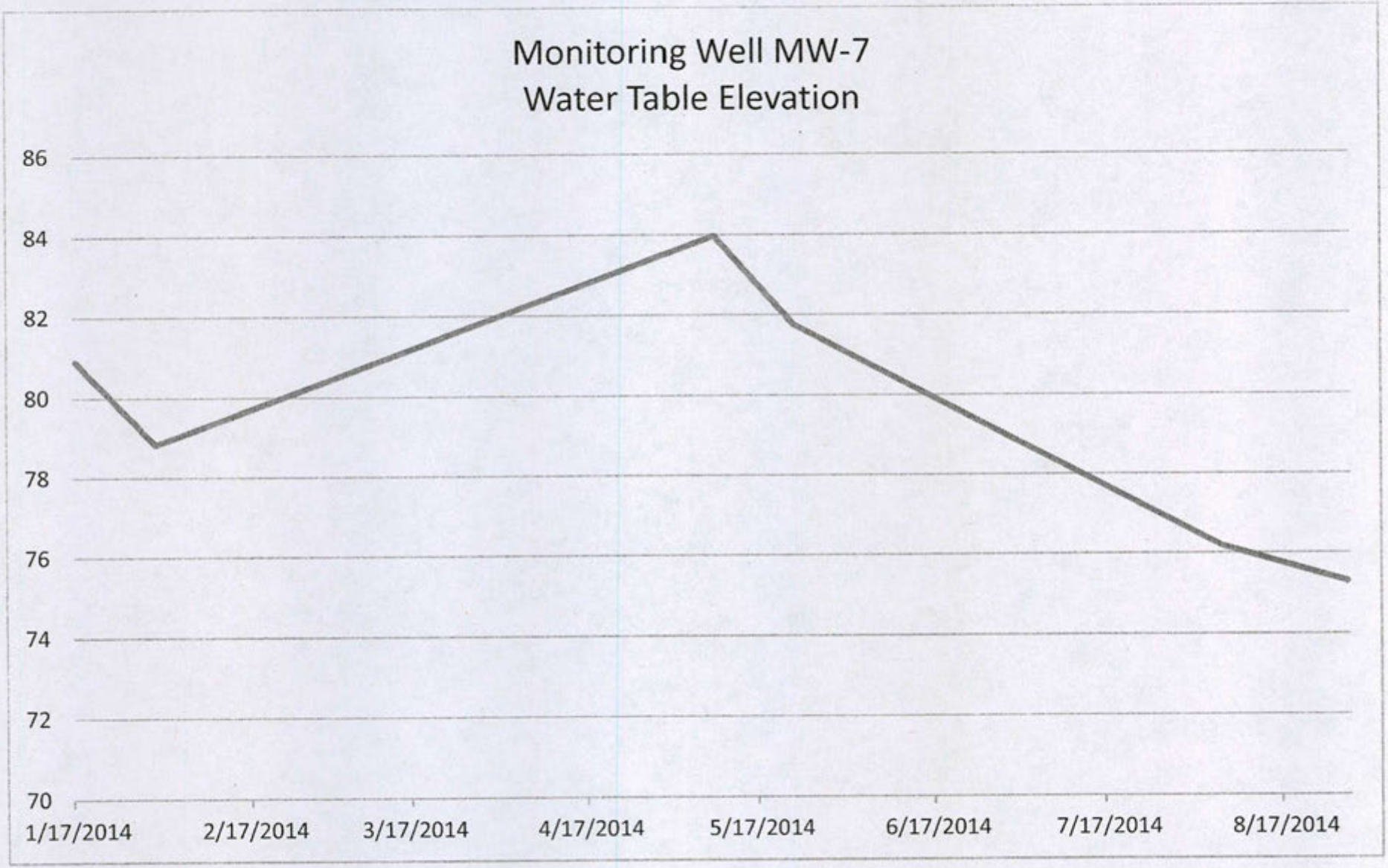
Data Summary
Monitoring Well MW-7
Former Blair Auto
Spring City, Pennsylvania

PADEP Standard (ppb) Used Aquifer, Residential								5	1,000	700	10,000	840	100	20	15	13
Well ID	Date	Elev (ft)	Depth	Casing	Screen	Water Depth (ft)	GW Elevation (ft)	Benzene	Toluene	Ethylbenzene	Xylene	Cumene	Naphthalene	MTBE	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
MW-7	1/17/2014	99.7	35	15	20	18.8	80.9	**5.1**	7	128	105	12.3	18.2	ND	**236**	**75.7**
	1/31/2014					20.88	78.82	2.2	1.5	11.8	168	ND	ND	ND	**193**	**36.3**
	5/9/2014					15.73	83.97	ND	ND	2	24.6	ND	ND	ND	10.6	4.7
	5/23/2014					17.95	81.75	ND	ND	ND	13.8	ND	ND	ND	5.7	3.1
	8/6/2014					23.52	76.18	ND	ND	ND	3.8	ND	ND	ND	1.8	1.2
	8/28/2014					24.4	75.3	NA	NA	NA	NA	NA	NA	NA	NA	NA

10/21/2014 1:13:49 PM



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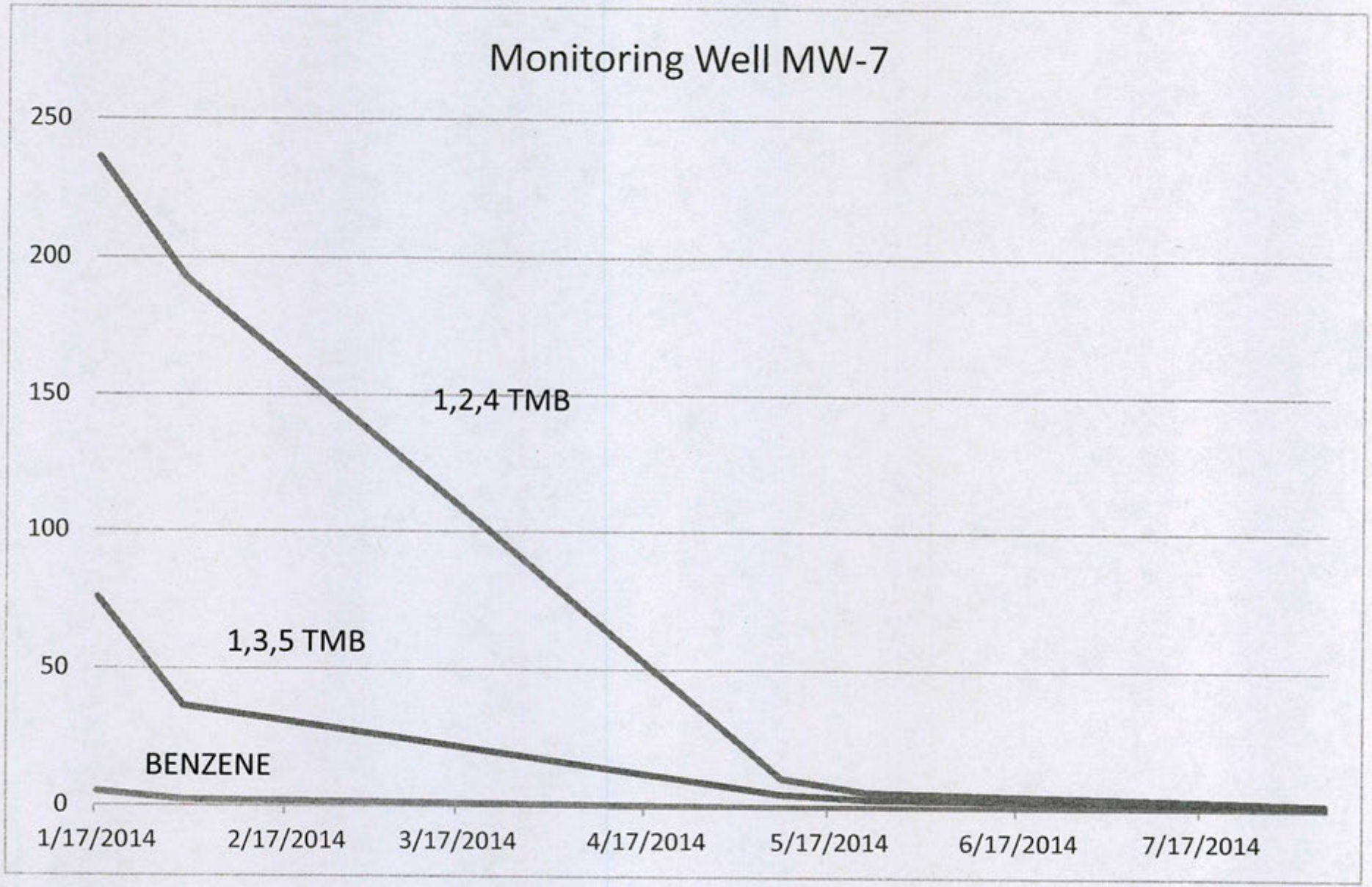

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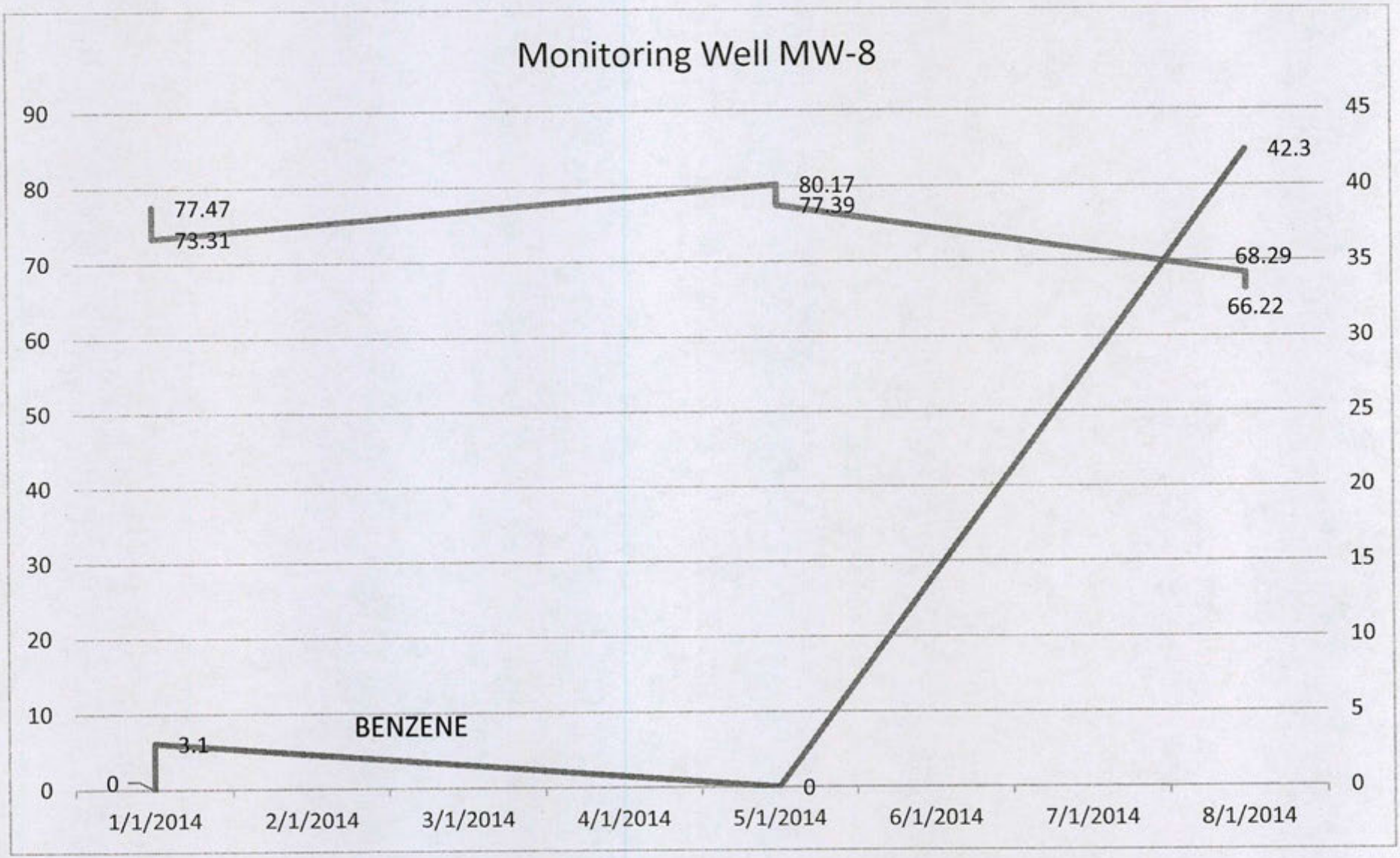
Data Summary
Monitoring Well MW-8
Former Blair Auto
Spring City, Pennsylvania

PADEP Standard (ppb) Used Aquifer, Residential								5	1,000	700	10,000	840	100	20	15	13
Well ID	Date	Elev (ft)	Depth	Casing	Screen	Water Depth (ft)	GW Elevation (ft)	Benzene	Toluene	Ethylbenzene	Xylene	Cumene	Naphthalene	MTBE	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
MW-8	1/17/2014	96.09	35	15	20	18.62	77.47	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/31/2014					22.78	73.31	3.1	ND	ND	ND	1.9	ND	ND	ND	ND
	5/9/2014					15.92	80.17	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/23/2014					18.7	77.39	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/6/2014					27.8	68.29	**42.3**	11.8	ND	8.9	8.9	9.9	ND	ND	1
	8/28/2014					29.87	66.22	NA	NA	NA	NA	NA	NA	NA	NA	NA

10/21/2014 1:13:52 PM

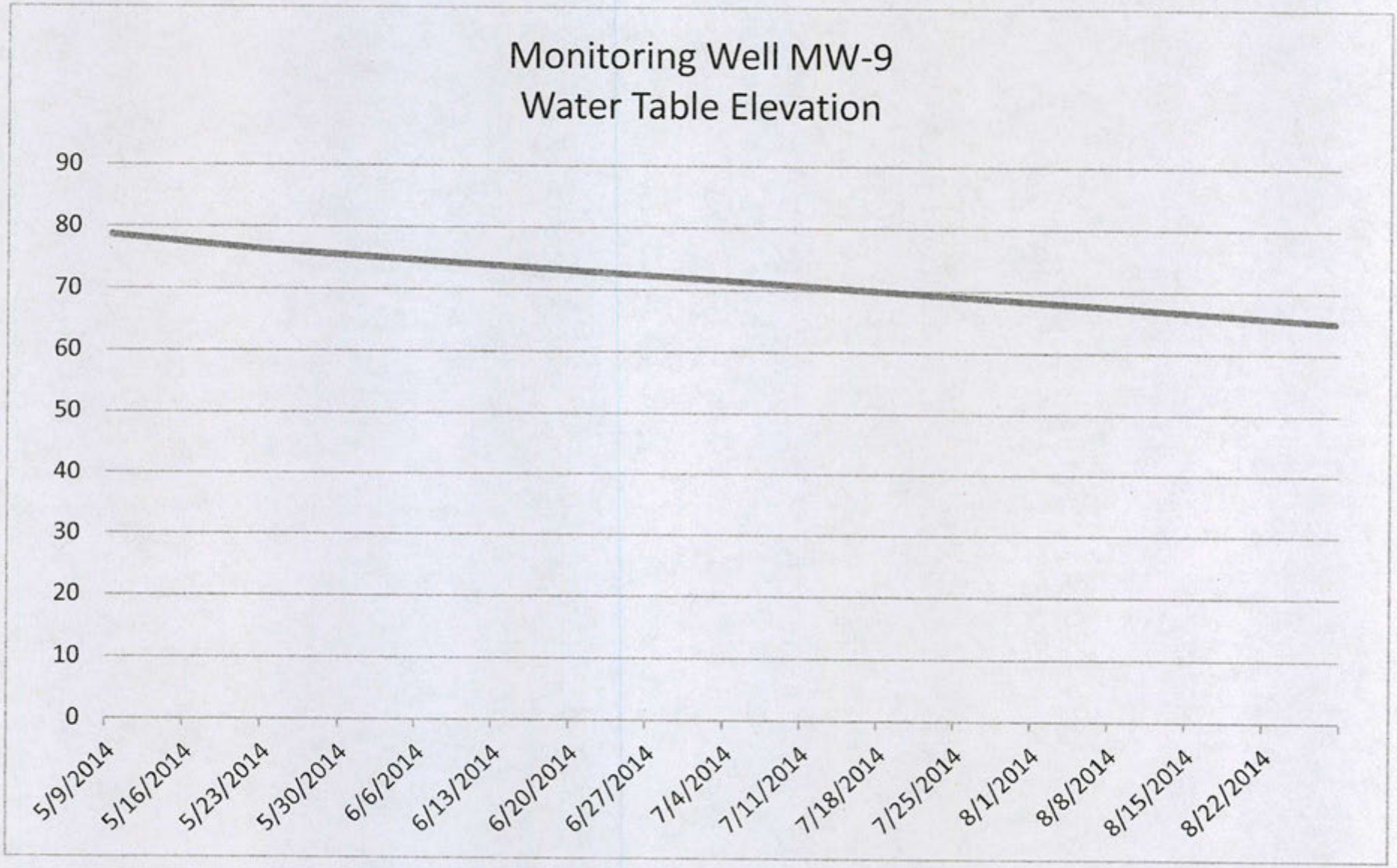


10/21/2014 1:13:53 PM

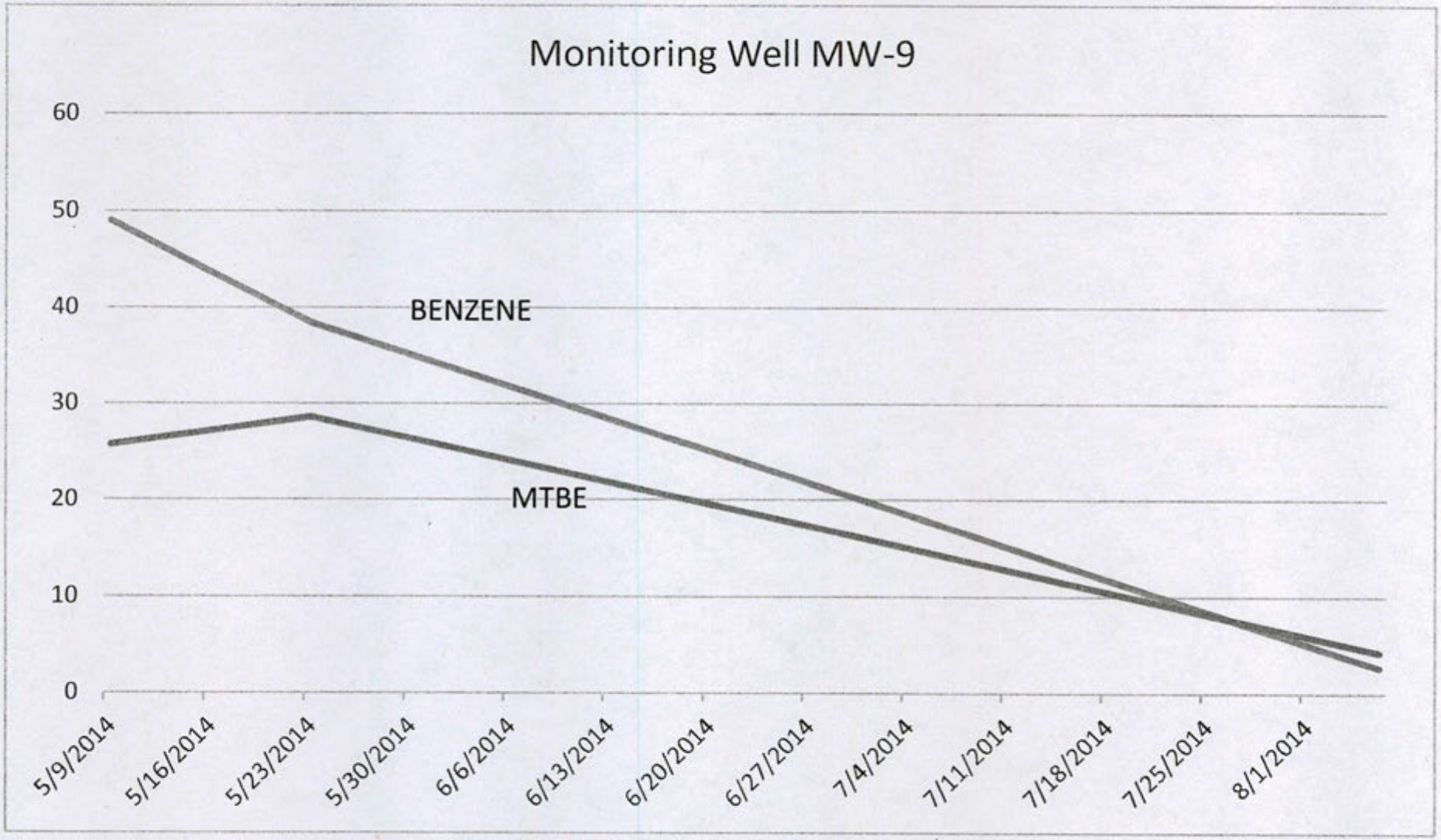
Data Summary
Monitoring Well MW-9
Former Blair Auto
Spring City, Pennsylvania

PADEP Standard (ppb) Used Aquifer, Residential								5	1,000	700	10,000	840	100	20	15	13
Well ID	Date	Elev (ft)	Depth	Casing	Screen	Water Depth (ft)	GW Elevation (ft)	Benzene	Toluene	Ethylbenzene	Xylene	Cumene	Naphthalene	MTBE	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
MW-9	5/9/2014	90.2	30	10	20	11.55	78.65	**49**	8.9	11.1	4.8	13.6	5.5	**25.7**	ND	ND
	5/23/2014					13.9	76.3	**38.4**	10.2	16.3	9.2	25.6	14.4	**28.6**	7.3	4.3
	8/6/2014					22.5	67.7	2.7	ND	ND	ND	ND	ND	4.3	ND	ND
	8/28/2014					25.1	65.1	NA	NA	NA	NA	NA	NA	NA	NA	NA

10/21/2014 1:13:55 PM



10/21/2014 1:13:56 PM



10/21/2014 1:13:57 PM

Data Summary
Monitoring Well MW-10
Former Blair Auto
Spring City, Pennsylvania

PADEP Standard (ppb) Used Aquifer, Residential								5	1,000	700	10,000	840	100	20	15	13
Well ID	Date	Elev (ft)	Depth	Casing	Screen	Water Depth (ft)	GW Elevation (ft)	Benzene	Toluene	Ethylbenzene	Xylene	Cumene	Naphthalene	MTBE	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
MW-10	5/9/2014	88.73	30	10	20	9.8	78.93	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/23/2014					12.27	76.46	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/6/2014					21.55	67.18	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/2014					23.93	64.8	NA	NA	NA	NA	NA	NA	NA	NA	NA

10/21/2014 1:13:58 PM

Data Summary
Monitoring Well MW-11
Former Blair Auto
Spring City, Pennsylvania

PADEP Standard (ppb) Used Aquifer, Residential								5	1,000	700	10,000	840	100	20	15	13
Well ID	Date	Elev (ft)	Depth	Casing	Screen	Water Depth (ft)	GW Elevation (ft)	Benzene	Toluene	Ethylbenzene	Xylene	Cumene	Naphthalene	MTBE	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
MW-11	8/6/2014	87.97	25	5	20	21.75	66.22	ND	ND	ND	ND	ND	ND	14	ND	ND
	8/28/2014					23.92	64.05	NA	NA	NA	NA	NA	NA	9.3	NA	NA

10/21/2014 1:13:59 PM

APPENDICES

10/21/2014 1:14:00 PM

APPENDIX A

UST CLOSURE REPORTS

10/21/2014 1:14:02 PM

COVENTRY ENVIRONMENTAL ASSOCIATES, INC.
PERMA-FILL NORTHEAST Division
PO Box 224
St. Peters • Pennsylvania 19470
(610) 469-6540
(610) 469-6541 FAX

September 19, 2013

Ms. Stephanie Fanfera
300 Country Ridge Drive
Royersford, PA 19468

RE: Underground Heating Oil Storage Tank Removal and Soil Remediation
3575 Schuylkill Road
Spring City, Pennsylvania

Dear Ms. Fanfera:

Coventry Environmental Associates, Inc. was contracted to perform the removal, site assessment and soil remediation relative to one (1) 2000 gallon Underground Storage Tank (UST) containing heating oil at a commercial property located at the above referenced location. The following sections in this report detail the tank closure, soil sampling procedures/findings and soil remediation.

1.0 SITE DESCRIPTION

The subject facility is located at 3575 Schuylkill Road in Spring City, Chester County, Pennsylvania. The facility is a former service station facility and is served by the public water service for a source of potable water. The general area surrounding the site is mixed commercial and residential.

Subsurface material encountered during excavation activities was comprised of brown silty clay and backfill gravel to a depth of approximately 10 feet (bedrock was not encountered). Published literature and boring observation indicates that the bedrock underlying the site is comprised of reddish brown shale and siltstone of the Triassic Brunswick Formation. Groundwater was not encountered in the tank excavation to a depth of 10 feet, however the depth to groundwater from previous site investigation has been determined to be approximately 20 feet bgs.

2.0 UST CLOSURE PROCEDURES

Coventry Environmental Associates, Inc. mobilized to the site on June 24, 2013 to remove the heating oil UST which was located in the left side of the facility. The soil above and surrounding the tank was excavated, the tank was removed and the tank was manually cleaned per American Petroleum Institute (API) standards.

Following the cleaning procedure the tank was inspected for corrosion and holes; the tank exhibited several holes on the bottom and sides of the tank. The tank was then delivered to the scrap facility and recycled as scrap metal.

10/21/2014 1:14:03 PM

3.0 SITE REMEDIATION AND SOIL ANALYTICAL RESULTS

Field inspection of the soils during removal of the tank indicated that the soil immediately underneath the tank exhibited petroleum odor and staining and consequently the soil was excavated to a depth of 10 feet bgs and stockpiled for subsequent disposal.

Following collection of the soil samples, the tank excavation was backfilled with clean fill material. The impacted soil was stockpiled and subsequently transported to Clean Earth in Philadelphia for disposal (see Appendix A).

Three post-excavation soil samples (SS-1, SS-2, SS-3) were collected on the sidewalls and bottom of the excavation at a depth of 10 feet bgs for laboratory analysis. Sample SS-1 was collected on the north sidewall, sample SS-2 was collected on the bottom and sample SS-3 was collected on the east sidewall of the excavation. The soil samples were collected pursuant to the PADEP field sampling and methanol preservation protocol (see Appendix B for laboratory Analytical Data) and delivered to ALSI, Inc. for analysis. The soil samples were analyzed for the PADEP parameters required for #2 fuel oil. The soil (unsaturated soil, non-residential, soil to groundwater pathway) results indicated the absence of parameter concentrations above the PADEP statewide health standards. It should be noted that soil samples were not collected from the south and west sidewalls due to the presence of backfill gravel in this area relative to recent gasoline UST removal activities.

Very Truly Yours,
COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

John F. Van Wagenen, P.G.
President/Principal Hydrogeologist

10/21/2014 1:14:04 PM

APPENDIX A

SOIL DISPOSAL DOCUMENTATION

LOCAL PERMIT

10/21/2014 1:14:05 PM

CLEANEARTH

Manifest # 826283

GLOBAL JOB NUMBER: 130833

FACILITY APPROVAL NUMBER: 123100182

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Other
- ☒ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Stephanie Fencing, 3576 Saucon Valley Rd, Center City, PA 19075

GENERATOR'S PHONE: 610-420-2792

GROSS WEIGHT: ☐Tons ☐Yards

TARE WEIGHT: ☐Tons ☐Yards

NET WEIGHT: ☐Tons ☐Yards

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION: 1-2 Foot of Contaminated Soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: [illegible]

Signature: [illegible] Date and Time: 9/19/13

TRANSPORTER

Company: EDP/ DPW Haulng

Address: 465 Keeman Rd, Co-Bethlehem PA

Phone Number: 267 424 3051

Driver: Dave Wilson (Type or Print Clearly)

Truck # and License Plate: 91 / AE83411

SW Haulers Permit #: PA HL240 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dave

Date and Time: 8:15 9-19-13

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time:

SITE

10/21/2014 1:14:07 PM

APPENDIX B

LABORATORY ANALYTICAL DATA

10/21/2014 1:14:08 PM

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

SAMPLE SUMMARY

Workorder: 1034644 BLAIR

Discard Date: 07/26/2013

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1034644001	SS-1	Solid	6/24/13 00:00	6/28/13 19:30	John VanWagenen
1034644002	SS-2	Solid	6/24/13 00:00	6/28/13 19:30	John VanWagenen
1034644003	SS-3	Solid	6/24/13 00:00	6/28/13 19:30	John VanWagenen
1034644004	Stockpile	Solid	6/24/13 00:00	6/28/13 19:30	John VanWagenen

Workorder Comments:

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

10/21/2014 1:14:09 PM

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1034644 BLAIR

Lab ID: **1034644001** Date Collected: 6/24/2013 00:00 Matrix: Solid
Sample ID: **SS-1** Date Received: 6/28/2013 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	61.4	SW846 8260B	6/24/13	GLQ	7/3/13 06:17	GLQ	A
Ethylbenzene	ND		ug/kg	61.4	SW846 8260B	6/24/13	GLQ	7/3/13 06:17	GLQ	A
Isopropylbenzene	ND		ug/kg	61.4	SW846 8260B	6/24/13	GLQ	7/3/13 06:17	GLQ	A
Methyl t-Butyl Ether	ND		ug/kg	61.4	SW846 8260B	6/24/13	GLQ	7/3/13 06:17	GLQ	A
Naphthalene	ND		ug/kg	123	SW846 8260B	6/24/13	GLQ	7/3/13 06:17	GLQ	A
Toluene	ND		ug/kg	61.4	SW846 8260B	6/24/13	GLQ	7/3/13 06:17	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/kg	61.4	SW846 8260B	6/24/13	GLQ	7/3/13 06:17	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/kg	61.4	SW846 8260B	6/24/13	GLQ	7/3/13 06:17	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	115		%	71-146	SW846 8260B	6/24/13	GLQ	7/3/13 06:17	GLQ	A
4-Bromofluorobenzene (S)	101		%	46-138	SW846 8260B	6/24/13	GLQ	7/3/13 06:17	GLQ	A
Dibromofluoromethane (S)	116		%	42-143	SW846 8260B	6/24/13	GLQ	7/3/13 06:17	GLQ	A
Toluene-d8 (S)	113		%	54-141	SW846 8260B	6/24/13	GLQ	7/3/13 06:17	GLQ	A
PETROLEUM HC's										
TPH - DRO C10-C44	223		mg/kg	123	SW846 8015D	7/3/13	RMP	7/4/13 09:12	JJH	B
WET CHEMISTRY										
Moisture	14.7		%	0.1	S2540G-97			7/2/13 09:30	AMH	A
Total Solids	85.3		%	0.1	S2540G-97			7/2/13 09:30	AMH	A

Sample Comments:

This sample was analyzed at a dilution in the 8015 high range organics analysis due to the level of analyte detected. Reporting limits were adjusted accordingly. Surrogate recovery could not be evaluated as a result of the dilution.

Denise Brooks
Project Coordinator

10/21/2014 1:14:11 PM

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1034644 BLAIR

Lab ID: **1034644002** Date Collected: 6/24/2013 00:00 Matrix: Solid
Sample ID: **SS-2** Date Received: 6/28/2013 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	64.4	SW846 8260B	6/24/13	GLQ	7/3/13 06:47	GLQ	A
Ethylbenzene	ND		ug/kg	64.4	SW846 8260B	6/24/13	GLQ	7/3/13 06:47	GLQ	A
Isopropylbenzene	ND		ug/kg	64.4	SW846 8260B	6/24/13	GLQ	7/3/13 06:47	GLQ	A
Methyl t-Butyl Ether	ND		ug/kg	64.4	SW846 8260B	6/24/13	GLQ	7/3/13 06:47	GLQ	A
Naphthalene	348		ug/kg	129	SW846 8260B	6/24/13	GLQ	7/3/13 06:47	GLQ	A
Toluene	ND		ug/kg	64.4	SW846 8260B	6/24/13	GLQ	7/3/13 06:47	GLQ	A
1,2,4-Trimethylbenzene	95.9		ug/kg	64.4	SW846 8260B	6/24/13	GLQ	7/3/13 06:47	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/kg	64.4	SW846 8260B	6/24/13	GLQ	7/3/13 06:47	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	139		%	71-146	SW846 8260B	6/24/13	GLQ	7/3/13 06:47	GLQ	A
4-Bromofluorobenzene (S)	119		%	46-138	SW846 8260B	6/24/13	GLQ	7/3/13 06:47	GLQ	A
Dibromofluoromethane (S)	142		%	42-143	SW846 8260B	6/24/13	GLQ	7/3/13 06:47	GLQ	A
Toluene-d8 (S)	138		%	54-141	SW846 8260B	6/24/13	GLQ	7/3/13 06:47	GLQ	A
PETROLEUM HC's										
TPH - DRO C10-C44	ND		mg/kg	136	SW846 8015D	7/3/13	RMP	7/4/13 10:15	JJH	B
WET CHEMISTRY										
Moisture	22.9		%	0.1	S2540G-97			7/2/13 09:30	AMH	A
Total Solids	77.1		%	0.1	S2540G-97			7/2/13 09:30	AMH	A

Sample Comments:

This sample was analyzed at a dilution in the 8015 high range organics analysis due to matrix. Reporting limits were adjusted accordingly. Surrogate recovery could not be evaluated as a result of the dilution.

Denise Brooks
Project Coordinator

10/21/2014 1:14:12 PM

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1034644 BLAIR

Lab ID: **1034644003** Date Collected: 6/24/2013 00:00 Matrix: Solid
Sample ID: **SS-3** Date Received: 6/28/2013 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	57.9	SW846 8260B	6/24/13	GLQ	7/3/13 07:16	GLQ	A
Ethylbenzene	ND		ug/kg	57.9	SW846 8260B	6/24/13	GLQ	7/3/13 07:16	GLQ	A
Isopropylbenzene	ND		ug/kg	57.9	SW846 8260B	6/24/13	GLQ	7/3/13 07:16	GLQ	A
Methyl t-Butyl Ether	ND		ug/kg	57.9	SW846 8260B	6/24/13	GLQ	7/3/13 07:16	GLQ	A
Naphthalene	ND		ug/kg	116	SW846 8260B	6/24/13	GLQ	7/3/13 07:16	GLQ	A
Toluene	ND		ug/kg	57.9	SW846 8260B	6/24/13	GLQ	7/3/13 07:16	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/kg	57.9	SW846 8260B	6/24/13	GLQ	7/3/13 07:16	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/kg	57.9	SW846 8260B	6/24/13	GLQ	7/3/13 07:16	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	122		%	71-146	SW846 8260B	6/24/13	GLQ	7/3/13 07:16	GLQ	A
4-Bromofluorobenzene (S)	110		%	46-138	SW846 8260B	6/24/13	GLQ	7/3/13 07:16	GLQ	A
Dibromofluoromethane (S)	127		%	42-143	SW846 8260B	6/24/13	GLQ	7/3/13 07:16	GLQ	A
Toluene-d8 (S)	131		%	54-141	SW846 8260B	6/24/13	GLQ	7/3/13 07:16	GLQ	A
PETROLEUM HC's										
TPH - DRO C10-C44	ND		mg/kg	117	SW846 8015D	7/3/13	RMP	7/4/13 11:18	JJH	B
WET CHEMISTRY										
Moisture	9.1		%	0.1	S2540G-97			7/2/13 09:30	AMH	A
Total Solids	90.9		%	0.1	S2540G-97			7/2/13 09:30	AMH	A

Sample Comments:

This sample was analyzed at a dilution in the 8015 high range organics analysis due to matrix. Reporting limits were adjusted accordingly. Surrogate recovery could not be evaluated as a result of the dilution.

Denise Brooks
Project Coordinator

10/21/2014 1:14:13 PM

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1034644 BLAIR

Lab ID: **1034644004** Date Collected: 6/24/2013 00:00 Matrix: Solid
Sample ID: **Stockpile** Date Received: 6/28/2013 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	45.3	SW846 8260B	7/2/13	GLQ	7/3/13 07:45	GLQ	B1
Ethylbenzene	ND		ug/kg	45.3	SW846 8260B	7/2/13	GLQ	7/3/13 07:45	GLQ	B1
Toluene	ND		ug/kg	45.3	SW846 8260B	7/2/13	GLQ	7/3/13 07:45	GLQ	B1
Total Xylenes	ND		ug/kg	136	SW846 8260B	7/2/13	GLQ	7/3/13 07:45	GLQ	B1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	94.1		%	71-146	SW846 8260B	7/2/13	GLQ	7/3/13 07:45	GLQ	B1
4-Bromofluorobenzene (S)	88.9		%	46-138	SW846 8260B	7/2/13	GLQ	7/3/13 07:45	GLQ	B1
Dibromofluoromethane (S)	97.6		%	42-143	SW846 8260B	7/2/13	GLQ	7/3/13 07:45	GLQ	B1
Toluene-d8 (S)	103		%	54-141	SW846 8260B	7/2/13	GLQ	7/3/13 07:45	GLQ	B1
PETROLEUM HC's										
TPH - DRO C10-C44	673		mg/kg	548	SW846 8015D	7/3/13	RMP	7/4/13 12:21	JJH	A
WET CHEMISTRY										
Corrosivity as pH	7.50	1	pH_Units		SW846 9045D			7/2/13 05:34	MSA	A
Cyanide, Reactive	ND		ppm	9.9	SW-846 7.3CN	7/3/13	RPE	7/3/13 14:04	JEP	A
Ignitability	Not ignitable	2			SW846 1030			7/8/13 12:45	SDL	A
Moisture	12.0		%	0.1	S2540G-97			7/2/13 09:30	AMH	A
Sulfide, Reactive	ND		ppm	6.2	SW846 7.3	7/3/13	RPE	7/3/13 11:00	RPE	A
Total Solids	88.0		%	0.1	S2540G-97			7/2/13 09:30	AMH	A
METALS										
Arsenic, Total	2.1		mg/kg	2.0	SW846 6010C	7/4/13	KMK	7/8/13 12:32	SRT	A3
Barium, Total	241		mg/kg	1.0	SW846 6010C	7/4/13	KMK	7/8/13 12:32	SRT	A3
Cadmium, Total	ND		mg/kg	0.51	SW846 6010C	7/4/13	KMK	7/8/13 12:32	SRT	A3
Chromium, Total	19.8		mg/kg	1.0	SW846 6010C	7/4/13	KMK	7/8/13 12:32	SRT	A3
Copper, Total	26.1		mg/kg	2.0	SW846 6010C	7/4/13	KMK	7/8/13 12:32	SRT	A3
Lead, Total	28.5		mg/kg	2.0	SW846 6010C	7/4/13	KMK	7/8/13 12:32	SRT	A3
Mercury, Total	ND		mg/kg	0.057	SW846 7471B	7/11/13	MNP	7/12/13 10:34	MNP	A4
Nickel, Total	16.0		mg/kg	2.0	SW846 6010C	7/4/13	KMK	7/8/13 12:32	SRT	A3
Selenium, Total	ND		mg/kg	5.1	SW846 6010C	7/4/13	KMK	7/8/13 12:32	SRT	A3
Silver, Total	ND		mg/kg	0.51	SW846 6010C	7/4/13	KMK	7/8/13 12:32	SRT	A3
Zinc, Total	64.8		mg/kg	2.0	SW846 6010C	7/4/13	KMK	7/8/13 12:32	SRT	A3
TCLP METALS										
Arsenic, Total	ND		mg/L	0.056	SW846 6010C	7/3/13	KMK	7/9/13 13:09	SRT	A1
Barium, Total	1.5		mg/L	0.022	SW846 6010C	7/3/13	KMK	7/9/13 13:09	SRT	A1

10/21/2014 1:14:14 PM

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1034644 BLAIR

Lab ID: **1034644004**
Sample ID: **Stockpile**

Date Collected: 6/24/2013 00:00
Date Received: 6/28/2013 19:30

Matrix: Solid

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Cadmium, Total	ND		mg/L	0.0044	SW846 6010C	7/3/13	KMK	7/9/13 13:09	SRT	A1
Chromium, Total	ND		mg/L	0.011	SW846 6010C	7/3/13	KMK	7/9/13 13:09	SRT	A1
Copper, Total	ND		mg/L	0.022	SW846 6010C	7/3/13	KMK	7/9/13 13:09	SRT	A1
Lead, Total	0.018		mg/L	0.013	SW846 6010C	7/3/13	KMK	7/9/13 13:09	SRT	A1
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	7/3/13	MNP	7/3/13 13:09	MNP	A2
Nickel, Total	ND		mg/L	0.044	SW846 6010C	7/3/13	KMK	7/9/13 13:09	SRT	A1
Selenium, Total	ND		mg/L	0.044	SW846 6010C	7/3/13	KMK	7/9/13 13:09	SRT	A1
Silver, Total	ND		mg/L	0.0089	SW846 6010C	7/3/13	KMK	7/9/13 13:09	SRT	A1
Zinc, Total	0.14		mg/L	0.044	SW846 6010C	7/3/13	KMK	7/9/13 13:09	SRT	A1

Sample Comments:

This sample was analyzed at a dilution in the 8015 high range organics analysis due to the level of analyte detected. Reporting limits were adjusted accordingly. Surrogate recovery could not be evaluated as a result of the dilution.

Denise Brooks
Project Coordinator

10/21/2014 1:14:16 PM

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 1034644 BLAIR

PARAMETER QUALIFIERS\FLAGS

[1] The solid pH measured in water was 7.504 at 20.5 degrees C.

[2] According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT

FORMER BLAIRS AUTO
3575 Schuylkill Road
Spring City, Pennsylvania
Facility ID# 15-42616

Submitted To:

Ms. Stephanie Fanfera
300 Country Ridge Drive
Royersford, PA 19468

Pennsylvania Department of
Environmental Protection
2 East Main Street
Norristown, PA 19401
Attn: Ms. Susan Kennedy
Corrective Action Section

Prepared By:

COVENTRY ENVIRONMENTAL
ASSOCIATES, INC.
991 RIDGE ROAD
BUCKTOWN, PENNSYLVANIA 19465
(610) 469-6540 • (610) 469-6541 Fax

John F. Van Wagenen, P.G.
P.G. License No. 002076-G

January 22, 2013

Project No. BLAIR--0001

10/21/2014 1:14:18 PM

DATE RECEIVED: _____

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

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

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

1. Facility ID Number 15 - 42616
2. Facility Name Blairs Auto
3. Facility County Chester
4. Facility Municipality East Vincent Township
5. Facility Address 3575 Schuylkill Rd
6. Facility Contact Person Ms. Stephanie Fanfera
7. Facility Telephone Number (610) 420 - 6982
8. Owner Name Ms. Stephanie fanfera
9. Owner Mailing Address 300 Country Ridge Dr. Royersford, PA 19468
10. Description of Underground Storage Tanks (Complete for each tank closed)

DATE OF TANK CLOSURE (Month/Day/Year)		12- 7 -2012	12- 7 -2012	12- 7 -2012	12- 7 -2012
Tank Registration Number		1	2	3	4
Estimated Total Capacity (Gallons)		4000	4000	4000	4000
Substance(s) Stored Throughout Operating Life of Tank (Check All That Apply)	**a. Petroleum**				
	Unleaded Gasoline	☒	☒	☒	☒
	Leaded Gasoline	☐	☐	☐	☐
	Aviation Gasoline	☐	☐	☐	☐
	Kerosene	☐	☐	☐	☐
	Jet Fuel	☐	☐	☐	☐
	Diesel Fuel	☐	☐	☐	☐
	Fuel Oil No. 1	☐	☐	☐	☐
	Fuel Oil No. 2	☐	☐	☐	☐
	Fuel Oil No. 4	☐	☐	☐	☐
	Fuel Oil No. 5	☐	☐	☐	☐
	Fuel Oil No. 6	☐	☐	☐	☐
	New Motor Oil	☐	☐	☐	☐
	Used Motor Oil	☐	☐	☐	☐
	Other, Please Specify				
NOTE: If Hazardous Substance Block is Checked, Attach Material Safety Data Sheets (MSDS)	**b. Hazardous Substance**	☐	☐	☐	☐
	Name of Principal CERCLA Substance				
	AND				
	Chemical Abstract Service (CAS) No.				
	c. Unknown	☐	☐	☐	☐
Closure Method (Check Only One)	**a. Removal**	☒	☒	☒	☒
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-In-Service	☐	☐	☐	☐
Partial System Closure (Yes or No)		no	no	no	no

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DATE OF TANK CLOSURE (Month/Day/Year)		12- 7 -2012	12- 7 -2012	- -	- -
Tank Registration Number		5	9		
Estimated Total Capacity (Gallons)		4000	10000		
Substance(s) Stored Throughout Operating Life of Tank (Check All That Apply)	**a. Petroleum**				
	Unleaded Gasoline	☒	☐	☐	☐
	Leaded Gasoline	☐	☐	☐	☐
	Aviation Gasoline	☐	☐	☐	☐
	Kerosene	☐	☐	☐	☐
	Jet Fuel	☐	☐	☐	☐
	Diesel Fuel	☐	☒	☐	☐
	Fuel Oil No. 1	☐	☐	☐	☐
	Fuel Oil No. 2	☐	☐	☐	☐
	Fuel Oil No. 4	☐	☐	☐	☐
	Fuel Oil No. 5	☐	☐	☐	☐
	Fuel Oil No. 6	☐	☐	☐	☐
	New Motor Oil	☐	☐	☐	☐
	Used Motor Oil	☐	☐	☐	☐
	Other, Please Specify				
NOTE: If Hazardous Substance Block is Checked, Attach Material Safety Data Sheets (MSDS)	**b. Hazardous Substance**	☐	☐	☐	☐
	Name of Principal CERCLA Substance	☐	☐	☐	☐
	AND				
	Chemical Abstract Service (CAS) No.				
	c. Unknown	☐	☐	☐	☐
Closure Method (Check Only One)	**a. Removal**	☒	☒	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-In-Service	☐	☐	☐	☐
Partial System Closure (Yes or No)		no	no		

Yes **N/A**

11. Briefly describe the storage tank facility and the nature of the operations which were conducted at the facility (both historical and present) **including use of tanks:**

Former service station and automotive repair facility.

☒ ☐ 12. A site location and sampling map of the site, drawn to scale, is attached. See page 11 of 11.

☒ ☐ 13. Original, color photographs of the closure process are attached (i.e., inside of excavation/piping runs, pit water, tanks showing condition).

☒ ☐ 14. An amended "Storage Tanks Registration/Permitting Application Form" was submitted to the DEP, Bureau of Environmental Cleanup and Brownfields, Division of Storage Tanks, P.O. Box 8762, Harrisburg, PA 17105-8762.

Date: 1/21/2013

☒ ☐ 15. If a reportable release was confirmed, the appropriate regional office of DEP was notified by the owner or operator.

Date: 1 - 2 - 2013 Office: Southeast

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Yes N/A

☒ ☐ 16. If tanks were cleaned on-site:

a. Briefly describe the disposition of usable product: none

b. Briefly describe the disposal of unusable product, sludges, sediments, and wastewater generated during cleaning. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):
Vacuum truck and disposal by Monarch Environmental (documentation attached)

c. If tank contents were determined/deemed to be hazardous waste, provide:

(1) Generator ID Number: _____

(2) Licensed Hazardous Waste Transporter Name and ID Number: _____

☐ ☒ 17. If tanks were removed from the site for cleaning:

a. Provide the name and permit number of the processing, treatment, storage or disposal facility performing the tank cleaning: _____

b. If tank contents were d determined/deemed to be hazardous waste, provide:

(1) Generator ID Number: _____

(2) Licensed Hazardous Waste Transporter Name and ID Number: _____

18. Briefly describe the disposition of tanks/piping (Attach documentation of proper disposal):
Gasoline Tank systems (fiberglass) placed in dumpsters and transported to western Berks Landfill in Birdsboro, PA. The steel diesel tank was transported to Reliable Auto Enterprise in Pottstown for recycling (see attached documentation).

☐ ☒ 19. If contaminated soil is excavated:

a. Briefly describe the disposition and amount _____ (tons) of contaminated soil. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):

b. If contaminated soil is determined/deemed to be hazardous waste, provide:

(1) Generator ID Number: _____

(2) Licensed Hazardous Waste Transporter Name and ID Number: _____

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Yes	N/A		
☒	☐	20.	Briefly describe the disposition of and amount 200 (tons) of uncontaminated soil (attach analyses): Staged on site and re-used for backfill (see reuse #1 and reuse#2 analytical results, ND)

I, _____, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904
(Print Name)
(relating to unsworn falsification to authorities) that I am the owner of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

_____ _____ / /
Signature of Tank Owner Date

_____
Company Name
(If Applicable)

_____
Title

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 15 - 42616

Yes	N/A		
		1.	Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil: Tanks uncovered and uncontaminated soil staged for re-use (no PID readings or visual/olfactory observation of impact)
		2.	Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping: All piping was removed. Piping was in good condition.
		3.	Briefly describe the condition of the tanks and any problems encountered during tank removal: Tanks were in good conditions and exhibited no holes.
		4.	Briefly describe the method used to purge the tanks of and monitor for explosive vapors: Ventilation with copus blower and tank atmosphere monitoring with explosimeter/oxygen meter.
☒	☐	5.	If tanks were cleaned on-site: a. Briefly describe the tank cleaning process: API manual cleaning and power wash with vacuum truck. b. If subcontracted, name and address of company that performed the tank cleaning:
☐	☐	6.	If tanks were closed-in-place, briefly describe the tank fill material:
☒	☐	7.	If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

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SECTION II. (continued)

I, John Van Wagenen, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904
(Print Name)
(relating to unsworn falsification to authorities) that I am the certified installer who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

Signature of Certified Installer

1 / 18 / 2013
Date

4864
Installer Certification Number

1433
Company Certification Number

Coventry Environmental Associates, Inc.
Company Name

991 Ridge Road
Street

Bucktown, PA 19465
City/Town, State, Zip

610 - 469 - 6540
Phone

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UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 001 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 15 - 42616

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A: if NOT encountered).

Bedrock NA feet below land surface Water 11.5 feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping NA feet

C. **TANK SYSTEM REMOVED FROM THE GROUND**

1). Was obvious contamination observed while excavating?

☒ NO ----------→ Conduct confirmatory sampling ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Do not complete item C.2. below.

☐YES----------→ Report release to DEP within 2 hours ----------→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

_____

_____

----------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES --------→ Remove or remediate contaminated soil --------→ Conduct confirmatory sampling-------→ See end of this section for options on submission and maintenance of closure records -------→ Call Indemnification Fund (717-787-0763).

☒ NO----------→ Continue interim remedial actions ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Call Indemnification Fund (717-787-0763).

D. **TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE**

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ----------→ Conduct confirmatory sampling ----------→ See end of this section for options on submission and maintenance of closure records.

☐ YES----------→ Report release to DEP within 2 hours ----------→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

_____

_____

Continue with corrective action ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Call Indemnification Fund (717-787-0763).

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UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 002 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 15 - 42616

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A: if NOT encountered).

Bedrock NA feet below land surface Water 11.5 feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping NA feet

C. **TANK SYSTEM REMOVED FROM THE GROUND**

1). Was obvious contamination observed while excavating?

☒ NO ----------→ Conduct confirmatory sampling ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Do not complete item C.2. below.

☐ YES----------→ Report release to DEP within 2 hours ----------→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

----------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES --------→ Remove or remediate contaminated soil --------→ Conduct confirmatory sampling-------→ See end of this section for options on submission and maintenance of closure records -------→ Call Indemnification Fund (717-787-0763).

☒ NO----------→ Continue interim remedial actions ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Call Indemnification Fund (717-787-0763).

D. **TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE**

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ----------→ Conduct confirmatory sampling ----------→ See end of this section for options on submission and maintenance of closure records.

☐ YES----------→ Report release to DEP within 2 hours ----------→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

Continue with corrective action ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Call Indemnification Fund (717-787-0763).

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UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 003 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 15 - 42616

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A: if NOT encountered).

Bedrock NA feet below land surface Water 11.5 feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping NA feet

C. **TANK SYSTEM REMOVED FROM THE GROUND**

1). Was obvious contamination observed while excavating?

☒ NO ----------→ Conduct confirmatory sampling ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Do not complete item C.2. below.

☐ YES----------→ Report release to DEP within 2 hours ----------→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

_____

_____

----------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES --------→ Remove or remediate contaminated soil --------→ Conduct confirmatory sampling-------→ See end of this section for options on submission and maintenance of closure records -------→ Call Indemnification Fund (717-787-0763).

☒ NO----------→ Continue interim remedial actions ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Call Indemnification Fund (717-787-0763).

D. **TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE**

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ----------→ Conduct confirmatory sampling ----------→ See end of this section for options on submission and maintenance of closure records.

☐ YES----------→ Report release to DEP within 2 hours ----------→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

_____

_____

Continue with corrective action ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Call Indemnification Fund (717-787-0763).

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UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 004 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 15 - 42616

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A: if NOT encountered).

Bedrock NA feet below land surface Water 11.5 feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).
Length of piping NA feet

C. **TANK SYSTEM REMOVED FROM THE GROUND**

1). Was obvious contamination observed while excavating?

☒ NO ----------→ Conduct confirmatory sampling ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Do not complete item C.2. below.

☐ YES----------→ Report release to DEP within 2 hours ----------→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

_____

_____

----------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES --------→ Remove or remediate contaminated soil --------→ Conduct confirmatory sampling-------→ See end of this section for options on submission and maintenance of closure records -------→ Call Indemnification Fund (717-787-0763).

☒ NO----------→ Continue interim remedial actions ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Call Indemnification Fund (717-787-0763).

D. **TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE**

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ----------→ Conduct confirmatory sampling ----------→ See end of this section for options on submission and maintenance of closure records.

☐ YES----------→ Report release to DEP within 2 hours ----------→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

_____

_____

Continue with corrective action ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Call Indemnification Fund (717-787-0763).

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UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 005 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 15 - 42616

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A: if NOT encountered).

Bedrock NA feet below land surface Water 11.5 feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping NA feet

C. **TANK SYSTEM REMOVED FROM THE GROUND**

1). Was obvious contamination observed while excavating?

☒ NO ----------→ Conduct confirmatory sampling ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Do not complete item C.2. below.

☐YES----------→ Report release to DEP within 2 hours ----------→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

_____

_____

----------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES --------→ Remove or remediate contaminated soil --------→ Conduct confirmatory sampling-------→ See end of this section for options on submission and maintenance of closure records -------→ Call Indemnification Fund (717-787-0763).

☒ NO----------→ Continue interim remedial actions ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Call Indemnification Fund (717-787-0763).

D. **TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE**

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ----------→ Conduct confirmatory sampling ----------→ See end of this section for options on submission and maintenance of closure records.

☐ YES----------→ Report release to DEP within 2 hours ----------→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

_____

_____

Continue with corrective action ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Call Indemnification Fund (717-787-0763).

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UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 009 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 15 - 42616

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A: if NOT encountered).

Bedrock NA feet below land surface Water 11.5 feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).
Length of piping NA feet

C. TANK SYSTEM REMOVED FROM THE GROUND

1). Was obvious contamination observed while excavating?

☒ NO ----------→ Conduct confirmatory sampling ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Do not complete item C.2. below.

☐ YES----------→ Report release to DEP within 2 hours ----------→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

_____

_____

----------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES --------→ Remove or remediate contaminated soil --------→ Conduct confirmatory sampling-------→ See end of this section for options on submission and maintenance of closure records -------→ Call Indemnification Fund (717-787-0763).

☒ NO----------→ Continue interim remedial actions ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Call Indemnification Fund (717-787-0763).

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ----------→ Conduct confirmatory sampling ----------→ See end of this section for options on submission and maintenance of closure records.

☐ YES----------→ Report release to DEP within 2 hours ----------→ Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

_____

_____

Continue with corrective action ----------→ See end of this section for options on submission and maintenance of closure records ----------→ Call Indemnification Fund (717-787-0763).

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

Options for Submission and Maintenance of Closure Site Assessment Records

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

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

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

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

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

I, John Van Wagenen P G, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating
(Print Name)
to unsworn falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

John Van Wagenen P. G.
Signature of Person Performing Site Assessment

1 / 18 / 2013
Date

President
Title of Person Performing Site Assessment

Coventry Environmental Associates, Inc.
Name of Company Performing Site Assessment

610-469-6540
Telephone Number of Person Performing Site Assessment

10/21/2014 1:14:34 PM

Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Limits (ppb)	Date Sample Taken	Date Sample Analyzed
D-W	Benzene	8260B/5035	soil	ND	41.9	12/7/2012	12/17/2012
	Ethylbenzene			ND	41.9		
	Cumene			ND	41.9		
	MTBE			ND	41.9		
	Naphthalene			ND	83.9		
	Toluene			ND	41.9		
	1,2,4 Trimethylbenzene			ND	41.9		
	1,3,5 Trimethylbenzene			ND	41.9		
	Xylene			NA			

Notes: Samples placed in a soil sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

10/21/2014 1:14:35 PM

Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Limits (ppb)	Date Sample Taken	Date Sample Analyzed
D-E	**Benzene**	8260B/5035	soil	ND	51.2	12/7/2012	12/17/2012
	Ethylbenzene			ND	51.2		
	Cumene			ND	51.2		
	MTBE			ND	51.2		
	Naphthalene			ND	102		
	Toluene			ND	51.2		
	1,2,4 Trimethylbenzene			ND	51.2		
	1,3,5 Trimethylbenzene			ND	51.2		
	Xylene			NA			

Notes: Samples placed in a soil sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

10/21/2014 1:14:36 PM

Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Limits (ppb)	Date Sample Taken	Date Sample Analyzed
D-I	Benzene	8260B/5035	soil	ND	62.9	12/7/2012	12/15/2012
	Ethylbenzene			ND	62.9		
	Cumene			ND	62.9		
	MTBE			ND	62.9		
	Naphthalene			ND	126		
	Toluene			ND	62.9		
	1,2,4 Trimethylbenzene			ND	62.9		
	1,3,5 Trimethylbenzene			ND	62.9		
	Xylene			NA			

Notes: Samples placed in a soil sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

10/21/2014 1:14:38 PM

Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Limits (ppb)	Date Sample Taken	Date Sample Analyzed
D-L	**Benzene**	8260B/5035	soil	ND	61.2	12/7/2012	12/15/2012
	Ethylbenzene			ND	61.2		
	Cumene			ND	61.2		
	MTBE			ND	61.2		
	Naphthalene			ND	122		
	Toluene			ND	61.2		
	1,2,4 Trimethylbenzene			ND	61.2		
	1,3,5 Trimethylbenzene			ND	61.2		
	Xylene			NA			

Notes: Samples placed in a soil sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

10/21/2014 1:14:39 PM

Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample ID	Parameter	Analytical Method	Media	Results (ppb)	Detection Limits (ppb)	Date Sample Taken	Date Sample Analyzed
Re-Use-1	**Benzene**	8260B/5035	soil	ND	52.2	12/7/2012	12/15/2012
	Ethylbenzene			ND	52.2		
	Cumene			ND	52.2		
	MTBE			ND	52.2		
	Naphthalene			ND	104		
	Toluene			ND	52.2		
	1,2,4 Trimethylbenzene			ND	52.2		
	1,3,5 Trimethylbenzene			ND	52.2		
	Xylene			NA			

Notes: Samples placed in a soil sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

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Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Units (ppb)	Date Sample Taken	Date Sample Analyzed
D-W-GW	Benzene	EPA 524.2	water	ND	2.5	12/7/2012	12/14/2012
	Ethylbenzene			ND	2.5		
	Cumene			3.2	2.5		
	MTBE			ND	2.5		
	Naphthalene			3.3	2.5		
	Toluene			ND	2.5		
	1,2,4 Trimethylbenzene			4.8	2.5		
	1,3,5 Trimethylbenzene			3.5	2.5		
	Xylene			NA			

Notes: Samples placed in a sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

10/21/2014 1:14:41 PM

Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Limit (ppb)	Date Sample Taken	Date Sample Analyzed
D-E-GW	Benzene	EPA 524.2	water	ND	2.5	12/7/2012	12/14/2012
	Ethylbenzene			ND	2.5		
	Cumene			ND	2.5		
	MTBE			ND	2.5		
	Naphthalene			ND	2.5		
	Toluene			ND	2.5		
	1,2,4 Trimethylbenzene			ND	2.5		
	1,3,5 Trimethylbenzene			ND	2.5		
	Xylene			NA			

Notes: Samples placed in a sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

10/21/2014 1:14:42 PM

Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Units (ppb)	Date Sample Taken	Date Sample Analyzed
G-W	**Benzene**	8260B/5035	soil	ND	52	12/8/2012	12/15/2012
	Ethylbenzene			ND	52		
	Cumene			ND	52		
	MTBE			ND	52		
	Naphthalene			ND	104		
	Toluene			ND	52		
	1,2,4 Trimethylbenzene			ND	52		
	1,3,5 Trimethylbenzene			ND	52		
	Xylene			ND	156		

Notes: Samples placed in a soil sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

10/21/2014 1:14:43 PM

Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Units (ppb)	Date Sample Taken	Date Sample Analyzed
G-E	Benzene	8260B/5035	soil	ND	45.1	12/8/2012	12/15/2012
	Ethylbenzene			ND	45.1		
	Cumene			ND	45.1		
	MTBE			55	45.1		
	Naphthalene			ND	90.1		
	Toluene			ND	45.1		
	1,2,4 Trimethylbenzene			ND	45.1		
	1,3,5 Trimethylbenzene			ND	45.1		
	Xylene			ND	135		

Notes: Samples placed in a soil sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

10/21/2014 1:14:45 PM

Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Limit (ppb)	Date Sample Taken	Date Sample Analyzed
G-I-1	Benzene	8260B/5035	soil	ND	45.4	12/8/2012	12/15/2012
	Ethylbenzene			ND	45.4		
	Cumene			ND	45.4		
	MTBE			ND	45.1		
	Naphthalene			ND	90.9		
	Toluene			ND	45.4		
	1,2,4 Trimethylbenzene			54.1	45.4		
	1,3,5 Trimethylbenzene			ND	45.4		
	Xylene			ND	136		

Notes: Samples placed in a soil sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

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Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Limits (ppb)	Date Sample Taken	Date Sample Analyzed
G-I-2	Benzene	8260B/5035	soil	ND	48.4	12/8/2012	12/15/2012
	Ethylbenzene			ND	48.4		
	Cumene			ND	48.4		
	MTBE			ND	48.4		
	Naphthalene			ND	96.7		
	Toluene			ND	48.4		
	1,2,4 Trimethylbenzene			ND	48.4		
	1,3,5 Trimethylbenzene			ND	48.4		
	Xylene			ND	145		

Notes: Samples placed in a soil sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

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Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Limits (ppb)	Date Sample Taken	Date Sample Analyzed
G-L-1	Benzene	8260B/5035	soil	214	47.7	12/8/2012	12/15/2012
	Ethylbenzene			348	47.7		
	Cumene			ND	47.7		
	MTBE			ND	47.7		
	Naphthalene			ND	95.4		
	Toluene			1250	47.7		
	1,2,4 Trimethylbenzene			1300	47.7		
	1,3,5 Trimethylbenzene			486	47.7		
	Xylene			1520	143		

Notes: Samples placed in a soil sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

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Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Limits (ppb)	Date Sample Taken	Date Sample Analyzed
G-L-2	Benzene	8260B/5035	soil	ND	46.3	12/8/2012	12/17/2012
	Ethylbenzene			ND	46.3		
	Cumene			ND	46.3		
	MTBE			ND	46.3		
	Naphthalene			ND	92.6		
	Toluene			ND	46.3		
	1,2,4 Trimethylbenzene			ND	46.3		
	1,3,5 Trimethylbenzene			ND	46.3		
	Xylene			ND	139		

Notes: Samples placed in a soil sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

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Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Limits (ppb)	Date Sample Taken	Date Sample Analyzed
Re-use-2	**Benzene**	8260B/5035	soil	ND	58.2	12/8/2012	12/17/2012
	Ethylbenzene			ND	58.2		
	Cumene			ND	58.2		
	MTBE			ND	58.2		
	Naphthalene			ND	116		
	Toluene			ND	58.2		
	1,2,4 Trimethylbenzene			ND	58.2		
	1,3,5 Trimethylbenzene			ND	58.2		
	Xylene			ND	175		

Notes: Samples placed in a soil sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

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Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Limits (ppb)	Date Sample Taken	Date Sample Analyzed
G-W-GW	**Benzene**	SW846/8260B	water	20.5	1.0	12/8/2012	12/14/2012
	Ethylbenzene			2.6	1.0		
	Cumene			ND	1.0		
	MTBE			89.3	1.0		
	Naphthalene			5.7	2.0		
	Toluene			46.4	1.0		
	1,2,4 Trimethylbenzene			6.0	1.0		
	1,3,5 Trimethylbenzene			1.4	1.0		
	Xylene			16.9	3.0		

Notes: Samples placed in a sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

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Underground Storage Tank System
Closure Report Form

Former Blairs Auto
3575 Schuylkill Road
Spring City, Pennsylvania

Sample I.D.	Parameter	Analytical Method	Media	Results (ppb)	Detection Limit (ppb)	Date Sample Taken	Date Sample Analyzed
G-E-GW	**Benzene**	SW846/8260B	water	10.2		[illegible]	12/14/2012
	Ethylbenzene			2.0			
	Cumene			ND			
	MTBE			27.8			
	Naphthalene			6.2			
	Toluene			31			
	1,2,4 Trimethylbenzene			9.7			
	1,3,5 Trimethylbenzene			2.3			
	Xylene			13.1			

Notes: Samples placed in a sample vial with a preservative present.
ND Denotes Not Detected above the laboratory limit of detection.
NA Denotes Not Analyzed

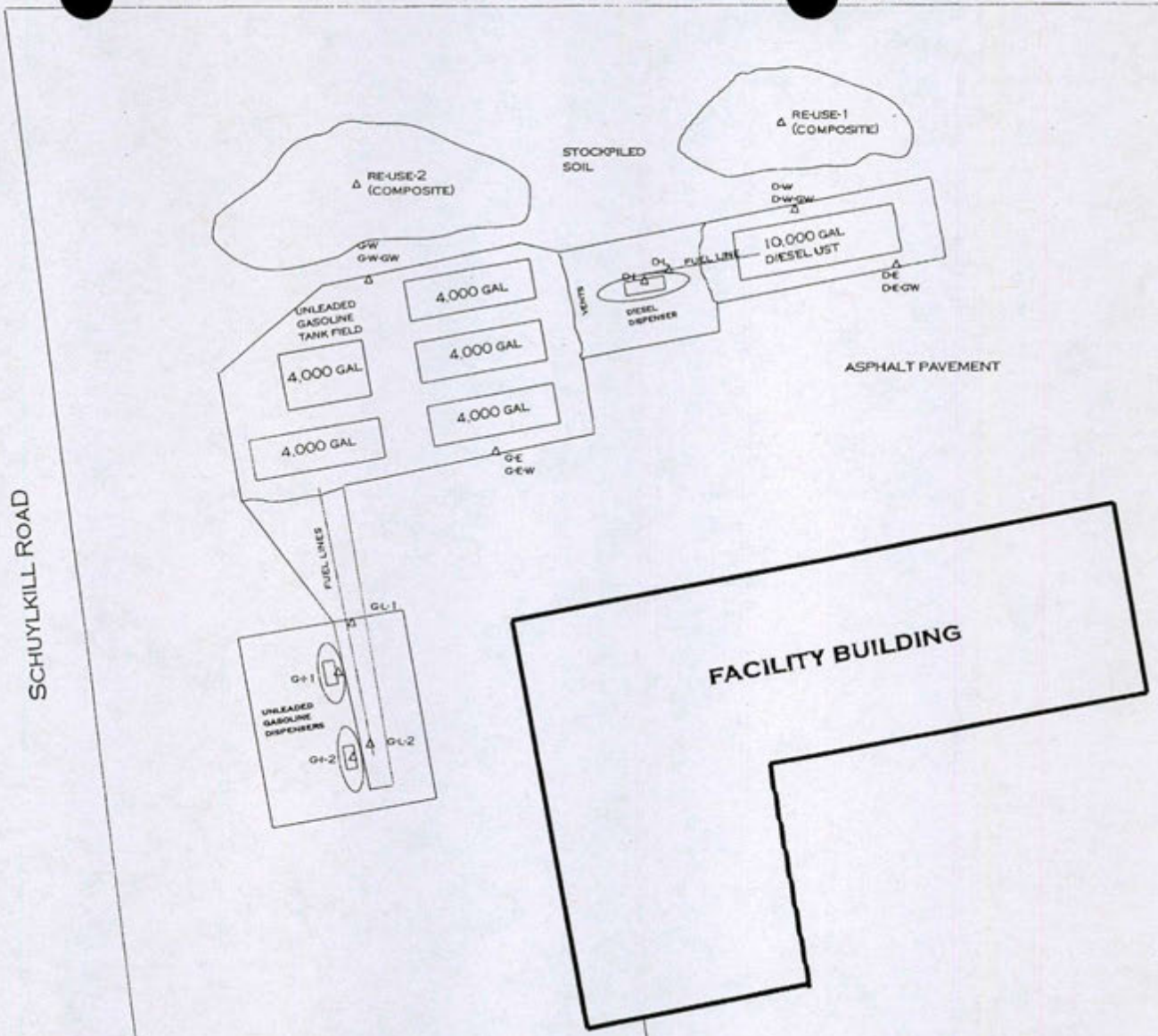
10/21/2014 1:14:53 PM

COVENTRY ENVIRONMENTAL ASSOCIATES, INC. 991 RIDGE ROAD BUCKTOWN, PENNSYLVANIA 19465	JOB NO. BLAIR-001	DRAWN BY: JVW	SCALE: 1" = 2000'	DRAWING NO. 1.0
	DATE: 9/210/12	CHECKED BY:	TITLE: SITE LOCATION MAP	NORTH

FORMER BLAIRS AUTO PROPERTY
3575 SCHUYLKILL ROAD
SPRING CITY, PENNSYLVANIA

10/21/2014 1:14:54 PM

HEC AVENUE



SAMPLE DATA SUMMARY

SAMPLE ID	DEPTH (FT)	COMMENTS
D-E	11.5	GROUNDWATER DETECTED AT 11.5 FT BGS
D-W	11.5	
D-W-GW	11.5	GROUNDWATER RECHARGING TO EXCAVATION
D-E-GW	11.5	"
D-L	3	1 FT BELOW FUEL LINE
D-I	2	2 FT BELOW DISPENSER
G-W	11.5	GROUNDWATER DETECTED AT 11.5 BGS
G-E	11.5	
G-W-GW	11.5	RECHARGING GROUNDWATER
G-E-GW	11.5	
G-I-1	2	
G-I-2	2	
G-L-1	3	
G-L-2	3	

COVENTRY ENVIRONMENTAL ASSOCIATES, INC.
991 RIDGE ROAD
BUCKTOWN, PENNSYLVANIA

JOB NO.: BLAIR-001

SCALE: 1" = 25' (APPROX)

DRAWING NO.: 2.0

FORMER BLAIRS AUTO
3575 SCHUYLKILL ROAD
SPRING CITY, PENNSYLVANIA
(FACILITY ID 15-42616)

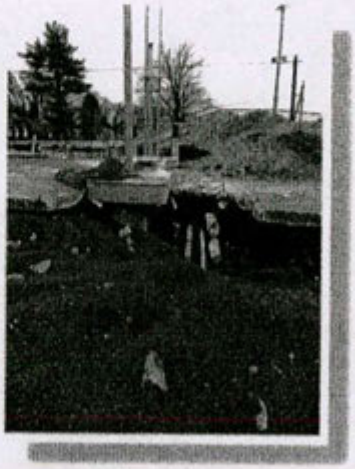
TITLE: SITE PLAN

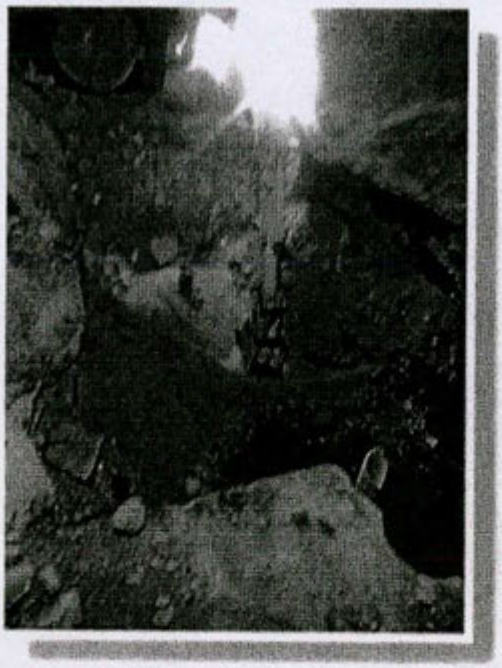
10/21/2014 1:14:55 PM

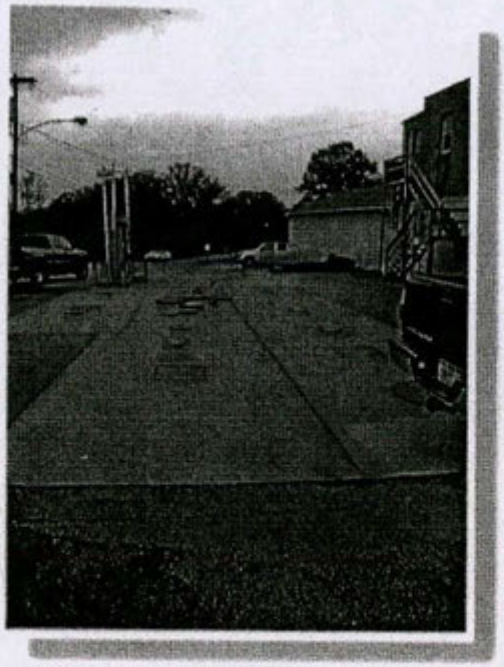
SITE PHOTOGRAPHS

10/21/2014 1:14:57 PM

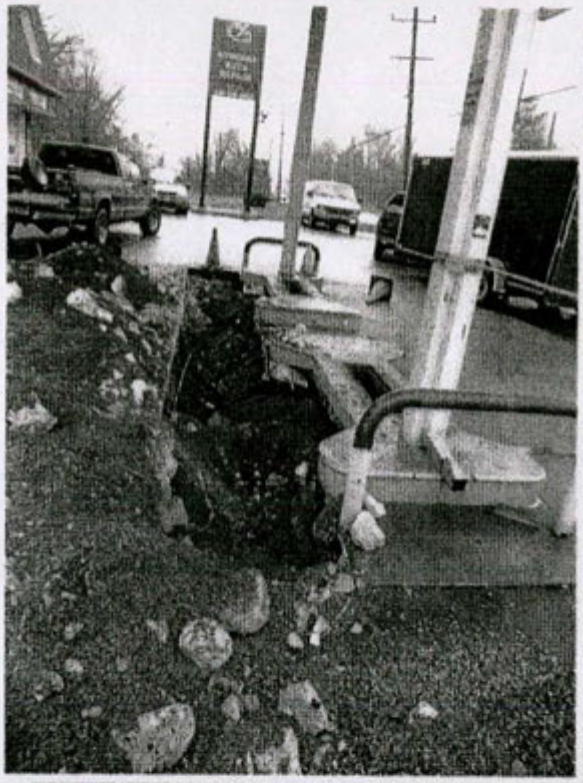
TRUCK &
TRAILER REPAIR

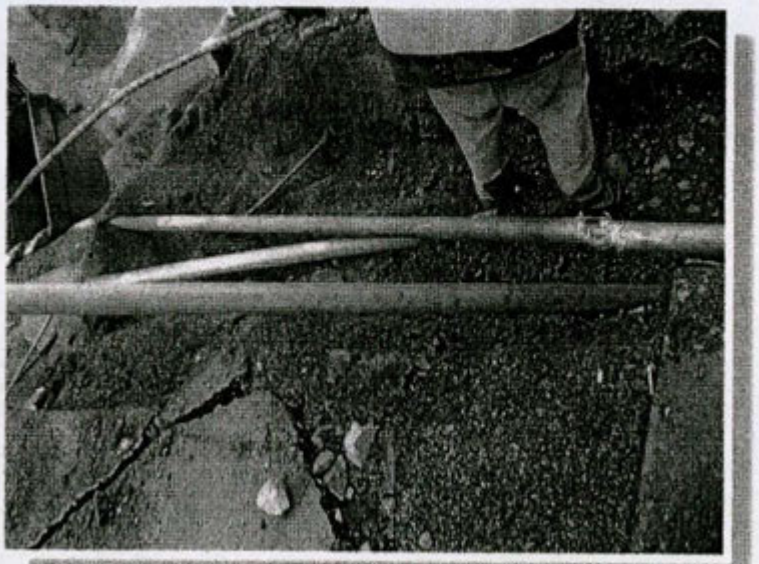






JD'S
JD'S





LABORATORY ANALYTICAL DATA SHEETS

10/21/2014 1:15:00 PM

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

SAMPLE SUMMARY

Workorder 1002693 Blair — Discard Date: 01/01/2013

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1002693001	D-W	Solid	12/7/12 00:00	12/11/12 21:50	John VanWagenen
1002693002	D-E	Solid	12/7/12 00:00	12/11/12 21:50	John VanWagenen
1002693003	D-I	Solid	12/7/12 00:00	12/11/12 21:50	John VanWagenen
1002693004	D-L	Solid	12/7/12 00:00	12/11/12 21:50	John VanWagenen
1002693005	Re-Use-1	Solid	12/7/12 00:00	12/11/12 21:50	John VanWagenen
1002693006	D-W-GW	Ground Water	12/7/12 00:00	12/11/12 21:50	John VanWagenen
1002693007	D-E-GW	Ground Water	12/7/12 00:00	12/11/12 21:50	John VanWagenen
1002693008	G-W	Solid	12/8/12 00:00	12/11/12 21:50	John VanWagenen
1002693009	G-E	Solid	12/8/12 00:00	12/11/12 21:50	John VanWagenen
1002693010	G-W-GW	Ground Water	12/8/12 00:00	12/11/12 21:50	John VanWagenen
1002693011	G-E-GW	Ground Water	12/8/12 00:00	12/11/12 21:50	John VanWagenen
1002693012	G-I-1	Solid	12/8/12 00:00	12/11/12 21:50	John VanWagenen
1002693013	G-I-2	Solid	12/8/12 00:00	12/11/12 21:50	John VanWagenen
1002693014	G-L-1	Solid	12/8/12 00:00	12/11/12 21:50	John VanWagenen
[illegible]693015	G-L-2	Solid	12/8/12 00:00	12/11/12 21:50	John VanWagenen
1002693016	Re-Use-2	Solid	12/8/12 00:00	12/11/12 21:50	John VanWagenen

Workorder Comments:

10/21/2014 1:15:02 PM

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SAMPLE SUMMARY

Workorder 1002693 Blair

Discard Date: 01/01/2013

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

10/21/2014 1:15:03 PM

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: **1002693001** Date Collected: 12/7/2012 00:00 Matrix: Solid

Sample ID: **D-W** Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	41.9	8260/5035	12/7/12	JAH	12/17/12 15:53	DRS	A
Ethylbenzene	ND		ug/kg	41.9	8260/5035	12/7/12	JAH	12/17/12 15:53	DRS	A
Isopropylbenzene	ND		ug/kg	41.9	8260/5035	12/7/12	JAH	12/17/12 15:53	DRS	A
Methyl t-Butyl Ether	ND		ug/kg	41.9	8260/5035	12/7/12	JAH	12/17/12 15:53	DRS	A
Naphthalene	ND		ug/kg	83.8	8260/5035	12/7/12	JAH	12/17/12 15:53	DRS	A
Toluene	ND		ug/kg	41.9	8260/5035	12/7/12	JAH	12/17/12 15:53	DRS	A
1,2,4-Trimethylbenzene	ND		ug/kg	41.9	8260/5035	12/7/12	JAH	12/17/12 15:53	DRS	A
1,3,5-Trimethylbenzene	ND		ug/kg	41.9	8260/5035	12/7/12	JAH	12/17/12 15:53	DRS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	51	1	%	71-146	8260/5035	12/7/12	JAH	12/17/12 15:53	DRS	A
4-Bromofluorobenzene (S)	63.9		%	46-138	8260/5035	12/7/12	JAH	12/17/12 15:53	DRS	A
Dibromofluoromethane (S)	50.7		%	42-143	8260/5035	12/7/12	JAH	12/17/12 15:53	DRS	A
Toluene-d8 (S)	60.7		%	54-141	8260/5035	12/7/12	JAH	12/17/12 15:53	DRS	A
[redacted]CHEMISTRY										
Moisture	12.4		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A
Total Solids	87.6		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A

Sample Comments:

Anna G Milliken
Technical Manager

10/21/2014 1:15:04 PM

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: **1002693002** Date Collected: 12/7/2012 00:00 Matrix: Solid

Sample ID: **D-E** Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	51.2	8260/5035	12/7/12	GLQ	12/15/12 05:24	GLQ	A
Ethylbenzene	ND		ug/kg	51.2	8260/5035	12/7/12	GLQ	12/15/12 05:24	GLQ	A
Isopropylbenzene	ND		ug/kg	51.2	8260/5035	12/7/12	GLQ	12/15/12 05:24	GLQ	A
Methyl t-Butyl Ether	ND		ug/kg	51.2	8260/5035	12/7/12	GLQ	12/15/12 05:24	GLQ	A
Naphthalene	ND		ug/kg	102	8260/5035	12/7/12	GLQ	12/15/12 05:24	GLQ	A
Toluene	ND		ug/kg	51.2	8260/5035	12/7/12	GLQ	12/15/12 05:24	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/kg	51.2	8260/5035	12/7/12	GLQ	12/15/12 05:24	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/kg	51.2	8260/5035	12/7/12	GLQ	12/15/12 05:24	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	87.1		%	71-146	8260/5035	12/7/12	GLQ	12/15/12 05:24	GLQ	A
4-Bromofluorobenzene (S)	81.1		%	46-138	8260/5035	12/7/12	GLQ	12/15/12 05:24	GLQ	A
Dibromofluoromethane (S)	85.6		%	42-143	8260/5035	12/7/12	GLQ	12/15/12 05:24	GLQ	A
Toluene-d8 (S)	90.7		%	54-141	8260/5035	12/7/12	GLQ	12/15/12 05:24	GLQ	A
WET CHEMISTRY										
Moisture	13.2		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A
Total Solids	86.8		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: **1002693003** Date Collected: 12/7/2012 00:00 Matrix: Solid

Sample ID: **D-I** Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	62.9	8260/5035	12/7/12	GLQ	12/15/12 05:54	GLQ	A
Ethylbenzene	ND		ug/kg	62.9	8260/5035	12/7/12	GLQ	12/15/12 05:54	GLQ	A
Isopropylbenzene	ND		ug/kg	62.9	8260/5035	12/7/12	GLQ	12/15/12 05:54	GLQ	A
Methyl t-Butyl Ether	ND		ug/kg	62.9	8260/5035	12/7/12	GLQ	12/15/12 05:54	GLQ	A
Naphthalene	ND		ug/kg	126	8260/5035	12/7/12	GLQ	12/15/12 05:54	GLQ	A
Toluene	ND		ug/kg	62.9	8260/5035	12/7/12	GLQ	12/15/12 05:54	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/kg	62.9	8260/5035	12/7/12	GLQ	12/15/12 05:54	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/kg	62.9	8260/5035	12/7/12	GLQ	12/15/12 05:54	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	119		%	71-146	8260/5035	12/7/12	GLQ	12/15/12 05:54	GLQ	A
4-Bromofluorobenzene (S)	120		%	46-138	8260/5035	12/7/12	GLQ	12/15/12 05:54	GLQ	A
Dibromofluoromethane (S)	116		%	42-143	8260/5035	12/7/12	GLQ	12/15/12 05:54	GLQ	A
Toluene-d8 (S)	120		%	54-141	8260/5035	12/7/12	GLQ	12/15/12 05:54	GLQ	A
CHEMISTRY										
Moisture	16.5		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A
Total Solids	83.5		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A

Sample Comments:

Anna G Milliken
Technical Manager

10/21/2014 1:15:06 PM

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: 1002693004 Date Collected: 12/7/2012 00:00 Matrix: Solid
Sample ID: D-L Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	61.2	8260/5035	12/7/12	GLQ	12/15/12 06:24	GLQ	A
Ethylbenzene	ND		ug/kg	61.2	8260/5035	12/7/12	GLQ	12/15/12 06:24	GLQ	A
Isopropylbenzene	ND		ug/kg	61.2	8260/5035	12/7/12	GLQ	12/15/12 06:24	GLQ	A
Methyl t-Butyl Ether	ND		ug/kg	61.2	8260/5035	12/7/12	GLQ	12/15/12 06:24	GLQ	A
Naphthalene	ND		ug/kg	122	8260/5035	12/7/12	GLQ	12/15/12 06:24	GLQ	A
Toluene	ND		ug/kg	61.2	8260/5035	12/7/12	GLQ	12/15/12 06:24	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/kg	61.2	8260/5035	12/7/12	GLQ	12/15/12 06:24	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/kg	61.2	8260/5035	12/7/12	GLQ	12/15/12 06:24	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	107		%	71-146	8260/5035	12/7/12	GLQ	12/15/12 06:24	GLQ	A
4-Bromofluorobenzene (S)	102		%	46-138	8260/5035	12/7/12	GLQ	12/15/12 06:24	GLQ	A
Dibromofluoromethane (S)	102		%	42-143	8260/5035	12/7/12	GLQ	12/15/12 06:24	GLQ	A
Toluene-d8 (S)	106		%	54-141	8260/5035	12/7/12	GLQ	12/15/12 06:24	GLQ	A
[redacted]CHEMISTRY										
Moisture	15.4		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A
Total Solids	84.6		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A

Sample Comments:

Anna G Milliken
Technical Manager

10/21/2014 1:15:08 PM

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: **1002693005** Date Collected: 12/7/2012 00:00 Matrix: Solid
Sample ID: **Re-Use-1** Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	52.2	8260/5035	12/7/12	GLQ	12/15/12 06:53	GLQ	A
Ethylbenzene	ND		ug/kg	52.2	8260/5035	12/7/12	GLQ	12/15/12 06:53	GLQ	A
Isopropylbenzene	ND		ug/kg	52.2	8260/5035	12/7/12	GLQ	12/15/12 06:53	GLQ	A
Methyl t-Butyl Ether	ND		ug/kg	52.2	8260/5035	12/7/12	GLQ	12/15/12 06:53	GLQ	A
Naphthalene	ND		ug/kg	104	8260/5035	12/7/12	GLQ	12/15/12 06:53	GLQ	A
Toluene	ND		ug/kg	52.2	8260/5035	12/7/12	GLQ	12/15/12 06:53	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/kg	52.2	8260/5035	12/7/12	GLQ	12/15/12 06:53	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/kg	52.2	8260/5035	12/7/12	GLQ	12/15/12 06:53	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	110		%	71-146	8260/5035	12/7/12	GLQ	12/15/12 06:53	GLQ	A
4-Bromofluorobenzene (S)	104		%	46-138	8260/5035	12/7/12	GLQ	12/15/12 06:53	GLQ	A
Dibromofluoromethane (S)	105		%	42-143	8260/5035	12/7/12	GLQ	12/15/12 06:53	GLQ	A
Toluene-d8 (S)	111		%	54-141	8260/5035	12/7/12	GLQ	12/15/12 06:53	GLQ	A
[redacted]CHEMISTRY										
Moisture	30.5		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A
Total Solids	69.5		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A

Sample Comments:

Anna G Milliken
Technical Manager

10/21/2014 1:15:09 PM

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: **1002693006** Date Collected: 12/7/2012 00:00 Matrix: Ground Water

Sample ID: **D-W-GW** Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	2.5	EPA 524.2			12/14/12 02:30	JAH	A
Ethylbenzene	ND		ug/L	2.5	EPA 524.2			12/14/12 02:30	JAH	A
Isopropylbenzene	3.2		ug/L	2.5	EPA 524.2			12/14/12 02:30	JAH	A
Methyl t-Butyl Ether	ND		ug/L	2.5	EPA 524.2			12/14/12 02:30	JAH	A
Naphthalene	3.3		ug/L	2.5	EPA 524.2			12/14/12 02:30	JAH	A
Toluene	ND		ug/L	2.5	EPA 524.2			12/14/12 02:30	JAH	A
1,2,4-Trimethylbenzene	4.8		ug/L	2.5	EPA 524.2			12/14/12 02:30	JAH	A
1,3,5-Trimethylbenzene	3.5		ug/L	2.5	EPA 524.2			12/14/12 02:30	JAH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichlorobenzene-d4 (S)	102		%	70-130	EPA 524.2			12/14/12 02:30	JAH	A
4-Bromofluorobenzene (S)	82.5		%	70-130	EPA 524.2			12/14/12 02:30	JAH	A

le Comments:

The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by matrix.

Anna G Milliken
Technical Manager

10/21/2014 1:15:10 PM

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: 1002693007 Date Collected: 12/7/2012 00:00 Matrix: Ground Water

Sample ID: D-E-GW Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	2.5	EPA 524.2			12/14/12 02:56	JAH	A
Ethylbenzene	ND		ug/L	2.5	EPA 524.2			12/14/12 02:56	JAH	A
Isopropylbenzene	ND		ug/L	2.5	EPA 524.2			12/14/12 02:56	JAH	A
Methyl t-Butyl Ether	ND		ug/L	2.5	EPA 524.2			12/14/12 02:56	JAH	A
Naphthalene	ND		ug/L	2.5	EPA 524.2			12/14/12 02:56	JAH	A
Toluene	ND		ug/L	2.5	EPA 524.2			12/14/12 02:56	JAH	A
1,2,4-Trimethylbenzene	ND		ug/L	2.5	EPA 524.2			12/14/12 02:56	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	2.5	EPA 524.2			12/14/12 02:56	JAH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichlorobenzene-d4 (S)	119		%	70-130	EPA 524.2			12/14/12 02:56	JAH	A
4-Bromofluorobenzene (S)	93.2		%	70-130	EPA 524.2			12/14/12 02:56	JAH	A

Sample Comments:

The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by matrix.

Anna G Milliken
Technical Manager

10/21/2014 1:15:11 PM

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: **1002693008** Date Collected: 12/8/2012 00:00 Matrix: Solid

Sample ID: **G-W** Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	52.0	8260/5035	12/8/12	GLQ	12/15/12 07:23	GLQ	A
Ethylbenzene	ND		ug/kg	52.0	8260/5035	12/8/12	GLQ	12/15/12 07:23	GLQ	A
Isopropylbenzene	ND		ug/kg	52.0	8260/5035	12/8/12	GLQ	12/15/12 07:23	GLQ	A
Methyl t-Butyl Ether	ND		ug/kg	52.0	8260/5035	12/8/12	GLQ	12/15/12 07:23	GLQ	A
Naphthalene	ND		ug/kg	104	8260/5035	12/8/12	GLQ	12/15/12 07:23	GLQ	A
Toluene	ND		ug/kg	52.0	8260/5035	12/8/12	GLQ	12/15/12 07:23	GLQ	A
Total Xylenes	ND		ug/kg	156	8260/5035	12/8/12	GLQ	12/15/12 07:23	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/kg	52.0	8260/5035	12/8/12	GLQ	12/15/12 07:23	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/kg	52.0	8260/5035	12/8/12	GLQ	12/15/12 07:23	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	95.4		%	71-146	8260/5035	12/8/12	GLQ	12/15/12 07:23	GLQ	A
4-Bromofluorobenzene (S)	85.6		%	46-138	8260/5035	12/8/12	GLQ	12/15/12 07:23	GLQ	A
Dibromofluoromethane (S)	91.5		%	42-143	8260/5035	12/8/12	GLQ	12/15/12 07:23	GLQ	A
[redacted]ene-d8 (S)	96.5		%	54-141	8260/5035	12/8/12	GLQ	12/15/12 07:23	GLQ	A
WET CHEMISTRY										
Moisture	12.7		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A
Total Solids	87.3		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A

Sample Comments:

Anna G Milliken
Technical Manager

10/21/2014 1:15:12 PM

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: **1002693009** Date Collected: 12/8/2012 00:00 Matrix: Solid

Sample ID: **G-E** Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	45.1	8260/5035	12/8/12	GLQ	12/15/12 07:53	GLQ	A
Ethylbenzene	ND		ug/kg	45.1	8260/5035	12/8/12	GLQ	12/15/12 07:53	GLQ	A
Isopropylbenzene	ND		ug/kg	45.1	8260/5035	12/8/12	GLQ	12/15/12 07:53	GLQ	A
Methyl t-Butyl Ether	55.0		ug/kg	45.1	8260/5035	12/8/12	GLQ	12/15/12 07:53	GLQ	A
Naphthalene	ND		ug/kg	90.1	8260/5035	12/8/12	GLQ	12/15/12 07:53	GLQ	A
Toluene	ND		ug/kg	45.1	8260/5035	12/8/12	GLQ	12/15/12 07:53	GLQ	A
Total Xylenes	ND		ug/kg	135	8260/5035	12/8/12	GLQ	12/15/12 07:53	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/kg	45.1	8260/5035	12/8/12	GLQ	12/15/12 07:53	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/kg	45.1	8260/5035	12/8/12	GLQ	12/15/12 07:53	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	98.6		%	71-146	8260/5035	12/8/12	GLQ	12/15/12 07:53	GLQ	A
4-Bromofluorobenzene (S)	91.3		%	46-138	8260/5035	12/8/12	GLQ	12/15/12 07:53	GLQ	A
Dibromofluoromethane (S)	94.2		%	42-143	8260/5035	12/8/12	GLQ	12/15/12 07:53	GLQ	A
[redacted]ene-d8 (S)	103		%	54-141	8260/5035	12/8/12	GLQ	12/15/12 07:53	GLQ	A
WET CHEMISTRY										
Moisture	16.9		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A
Total Solids	83.1		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: **1002693012** Date Collected: 12/8/2012 00:00 Matrix: Solid
Sample ID: **G-I-1** Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	45.4	8260/5035	12/8/12	GLQ	12/15/12 08:22	GLQ	A
Ethylbenzene	ND		ug/kg	45.4	8260/5035	12/8/12	GLQ	12/15/12 08:22	GLQ	A
Isopropylbenzene	ND		ug/kg	45.4	8260/5035	12/8/12	GLQ	12/15/12 08:22	GLQ	A
Methyl t-Butyl Ether	ND		ug/kg	45.4	8260/5035	12/8/12	GLQ	12/15/12 08:22	GLQ	A
Naphthalene	ND		ug/kg	90.9	8260/5035	12/8/12	GLQ	12/15/12 08:22	GLQ	A
Toluene	ND		ug/kg	45.4	8260/5035	12/8/12	GLQ	12/15/12 08:22	GLQ	A
Total Xylenes	ND		ug/kg	136	8260/5035	12/8/12	GLQ	12/15/12 08:22	GLQ	A
1,2,4-Trimethylbenzene	54.1		ug/kg	45.4	8260/5035	12/8/12	GLQ	12/15/12 08:22	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/kg	45.4	8260/5035	12/8/12	GLQ	12/15/12 08:22	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	106		%	71-146	8260/5035	12/8/12	GLQ	12/15/12 08:22	GLQ	A
4-Bromofluorobenzene (S)	109		%	46-138	8260/5035	12/8/12	GLQ	12/15/12 08:22	GLQ	A
Dibromofluoromethane (S)	105		%	42-143	8260/5035	12/8/12	GLQ	12/15/12 08:22	GLQ	A
[redacted]ne-d8 (S)	112		%	54-141	8260/5035	12/8/12	GLQ	12/15/12 08:22	GLQ	A
WET CHEMISTRY										
Moisture	8.4		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A
Total Solids	91.6		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: **1002693013** Date Collected: 12/8/2012 00:00 Matrix: Solid
Sample ID: **G-I-2** Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	48.4	8260/5035	12/8/12	GLQ	12/15/12 08:52	GLQ	A
Ethylbenzene	ND		ug/kg	48.4	8260/5035	12/8/12	GLQ	12/15/12 08:52	GLQ	A
Isopropylbenzene	ND		ug/kg	48.4	8260/5035	12/8/12	GLQ	12/15/12 08:52	GLQ	A
Methyl t-Butyl Ether	ND		ug/kg	48.4	8260/5035	12/8/12	GLQ	12/15/12 08:52	GLQ	A
Naphthalene	ND		ug/kg	96.7	8260/5035	12/8/12	GLQ	12/15/12 08:52	GLQ	A
Toluene	ND		ug/kg	48.4	8260/5035	12/8/12	GLQ	12/15/12 08:52	GLQ	A
Total Xylenes	ND		ug/kg	145	8260/5035	12/8/12	GLQ	12/15/12 08:52	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/kg	48.4	8260/5035	12/8/12	GLQ	12/15/12 08:52	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/kg	48.4	8260/5035	12/8/12	GLQ	12/15/12 08:52	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	122		%	71-146	8260/5035	12/8/12	GLQ	12/15/12 08:52	GLQ	A
4-Bromofluorobenzene (S)	130		%	46-138	8260/5035	12/8/12	GLQ	12/15/12 08:52	GLQ	A
Dibromofluoromethane (S)	120		%	42-143	8260/5035	12/8/12	GLQ	12/15/12 08:52	GLQ	A
[redacted]ene-d8 (S)	131		%	54-141	8260/5035	12/8/12	GLQ	12/15/12 08:52	GLQ	A
WET CHEMISTRY										
Moisture	12.5		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A
Total Solids	87.5		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: 1002693014 Date Collected: 12/8/2012 00:00 Matrix: Solid

Sample ID: G-L-1 Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	214		ug/kg	47.7	8260/5035	12/8/12	GLQ	12/15/12 09:22	GLQ	A
Ethylbenzene	348		ug/kg	47.7	8260/5035	12/8/12	GLQ	12/15/12 09:22	GLQ	A
Isopropylbenzene	ND		ug/kg	47.7	8260/5035	12/8/12	GLQ	12/15/12 09:22	GLQ	A
Methyl t-Butyl Ether	ND		ug/kg	47.7	8260/5035	12/8/12	GLQ	12/15/12 09:22	GLQ	A
Naphthalene	ND		ug/kg	95.4	8260/5035	12/8/12	GLQ	12/15/12 09:22	GLQ	A
Toluene	1250		ug/kg	47.7	8260/5035	12/8/12	GLQ	12/15/12 09:22	GLQ	A
Total Xylenes	1520		ug/kg	143	8260/5035	12/8/12	GLQ	12/15/12 09:22	GLQ	A
1,2,4-Trimethylbenzene	1300		ug/kg	47.7	8260/5035	12/8/12	GLQ	12/15/12 09:22	GLQ	A
1,3,5-Trimethylbenzene	486		ug/kg	47.7	8260/5035	12/8/12	GLQ	12/15/12 09:22	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	113		%	71-146	8260/5035	12/8/12	GLQ	12/15/12 09:22	GLQ	A
4-Bromofluorobenzene (S)	103		%	46-138	8260/5035	12/8/12	GLQ	12/15/12 09:22	GLQ	A
Dibromofluoromethane (S)	110		%	42-143	8260/5035	12/8/12	GLQ	12/15/12 09:22	GLQ	A
[illegible]ene-d8 (S)	117		%	54-141	8260/5035	12/8/12	GLQ	12/15/12 09:22	GLQ	A
WET CHEMISTRY										
Moisture	9.4		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A
Total Solids	90.6		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A

Sample Comments:

Anna G Milliken
Technical Manager

10/21/2014 1:15:17 PM

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: **1002693015** Date Collected: 12/8/2012 00:00 Matrix: Solid

Sample ID: **G-L-2** Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	46.3	8260/5035	12/8/12	TMP	12/17/12 17:24	DRS	A
Ethylbenzene	ND		ug/kg	46.3	8260/5035	12/8/12	TMP	12/17/12 17:24	DRS	A
Isopropylbenzene	ND		ug/kg	46.3	8260/5035	12/8/12	TMP	12/17/12 17:24	DRS	A
Methyl t-Butyl Ether	ND		ug/kg	46.3	8260/5035	12/8/12	TMP	12/17/12 17:24	DRS	A
Naphthalene	ND		ug/kg	92.6	8260/5035	12/8/12	TMP	12/17/12 17:24	DRS	A
Toluene	ND		ug/kg	46.3	8260/5035	12/8/12	TMP	12/17/12 17:24	DRS	A
Total Xylenes	ND		ug/kg	139	8260/5035	12/8/12	TMP	12/17/12 17:24	DRS	A
1,2,4-Trimethylbenzene	ND		ug/kg	46.3	8260/5035	12/8/12	TMP	12/17/12 17:24	DRS	A
1,3,5-Trimethylbenzene	ND		ug/kg	46.3	8260/5035	12/8/12	TMP	12/17/12 17:24	DRS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	90.5		%	71-146	8260/5035	12/8/12	TMP	12/17/12 17:24	DRS	A
4-Bromofluorobenzene (S)	132		%	46-138	8260/5035	12/8/12	TMP	12/17/12 17:24	DRS	A
Dibromofluoromethane (S)	85.9		%	42-143	8260/5035	12/8/12	TMP	12/17/12 17:24	DRS	A
[redacted]ne-d8 (S)	79.9		%	54-141	8260/5035	12/8/12	TMP	12/17/12 17:24	DRS	A
WET CHEMISTRY										
Moisture	12.6		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A
Total Solids	87.4		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A

Sample Comments:

Anna G Milliken
Technical Manager

10/21/2014 1:15:18 PM

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: **1002693016** Date Collected: 12/8/2012 00:00 Matrix: Solid

Sample ID: **Re-Use-2** Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	58.2	8260/5035	12/8/12	TMP	12/17/12 17:54	DRS	A
Ethylbenzene	ND		ug/kg	58.2	8260/5035	12/8/12	TMP	12/17/12 17:54	DRS	A
Isopropylbenzene	ND		ug/kg	58.2	8260/5035	12/8/12	TMP	12/17/12 17:54	DRS	A
Methyl t-Butyl Ether	ND		ug/kg	58.2	8260/5035	12/8/12	TMP	12/17/12 17:54	DRS	A
Naphthalene	ND		ug/kg	116	8260/5035	12/8/12	TMP	12/17/12 17:54	DRS	A
Toluene	ND		ug/kg	58.2	8260/5035	12/8/12	TMP	12/17/12 17:54	DRS	A
Total Xylenes	ND		ug/kg	175	8260/5035	12/8/12	TMP	12/17/12 17:54	DRS	A
1,2,4-Trimethylbenzene	ND		ug/kg	58.2	8260/5035	12/8/12	TMP	12/17/12 17:54	DRS	A
1,3,5-Trimethylbenzene	ND		ug/kg	58.2	8260/5035	12/8/12	TMP	12/17/12 17:54	DRS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	76.4		%	71-146	8260/5035	12/8/12	TMP	12/17/12 17:54	DRS	A
4-Bromofluorobenzene (S)	104		%	46-138	8260/5035	12/8/12	TMP	12/17/12 17:54	DRS	A
Dibromofluoromethane (S)	77.8		%	42-143	8260/5035	12/8/12	TMP	12/17/12 17:54	DRS	A
[redacted]ne-d8 (S)	69.9		%	54-141	8260/5035	12/8/12	TMP	12/17/12 17:54	DRS	A
WET CHEMISTRY										
Moisture	30.4		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A
Total Solids	69.6		%	0.1	SM20-2540 G			12/12/12 13:30	CF	A

Sample Comments:

Anna G Milliken
Technical Manager

10/21/2014 1:15:20 PM

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: **1002693010** Date Collected: 12/8/2012 00:00 Matrix: Ground Water

Sample ID: **G-W-GW** Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	20.5		ug/L	1.0	SW846 8260B			12/14/12 09:44	DD	A
Ethylbenzene	2.6		ug/L	1.0	SW846 8260B			12/14/12 09:44	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/14/12 09:44	DD	A
Methyl t-Butyl Ether	89.3		ug/L	1.0	SW846 8260B			12/14/12 09:44	DD	A
Naphthalene	5.7		ug/L	2.0	SW846 8260B			12/14/12 09:44	DD	A
Toluene	46.4		ug/L	1.0	SW846 8260B			12/14/12 09:44	DD	A
Total Xylenes	16.9		ug/L	3.0	SW846 8260B			12/14/12 09:44	DD	A
1,2,4-Trimethylbenzene	6.0		ug/L	1.0	SW846 8260B			12/14/12 09:44	DD	A
1,3,5-Trimethylbenzene	1.4		ug/L	1.0	SW846 8260B			12/14/12 09:44	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	88.7		%	62-133	SW846 8260B			12/14/12 09:44	DD	A
4-Bromofluorobenzene (S)	99.4		%	79-114	SW846 8260B			12/14/12 09:44	DD	A
Dibromofluoromethane (S)	87.3		%	78-116	SW846 8260B			12/14/12 09:44	DD	A
Toluene-d8 (S)	92		%	76-127	SW846 8260B			12/14/12 09:44	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder 1002693 Blair

Lab ID: 1002693011 Date Collected: 12/8/2012 00:00 Matrix: Ground Water
Sample ID: G-E-GW Date Received: 12/11/2012 21:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	10.2		ug/L	1.0	SW846 8260B			12/14/12 09:21	DD	A
Ethylbenzene	2.0		ug/L	1.0	SW846 8260B			12/14/12 09:21	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/14/12 09:21	DD	A
Methyl t-Butyl Ether	27.8		ug/L	1.0	SW846 8260B			12/14/12 09:21	DD	A
Naphthalene	6.2		ug/L	2.0	SW846 8260B			12/14/12 09:21	DD	A
Toluene	31.0		ug/L	1.0	SW846 8260B			12/14/12 09:21	DD	A
Total Xylenes	13.1		ug/L	3.0	SW846 8260B			12/14/12 09:21	DD	A
1,2,4-Trimethylbenzene	9.7		ug/L	1.0	SW846 8260B			12/14/12 09:21	DD	A
1,3,5-Trimethylbenzene	2.3		ug/L	1.0	SW846 8260B			12/14/12 09:21	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	89.6		%	62-133	SW846 8260B			12/14/12 09:21	DD	A
4-Bromofluorobenzene (S)	99.5		%	79-114	SW846 8260B			12/14/12 09:21	DD	A
Dibromofluoromethane (S)	87.9		%	78-116	SW846 8260B			12/14/12 09:21	DD	A
Toluene-d8 (S)	91.9		%	76-127	SW846 8260B			12/14/12 09:21	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

10/21/2014 1:15:22 PM

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder 1002693 Blair

PARAMETER QUALIFIERS\FLAGS

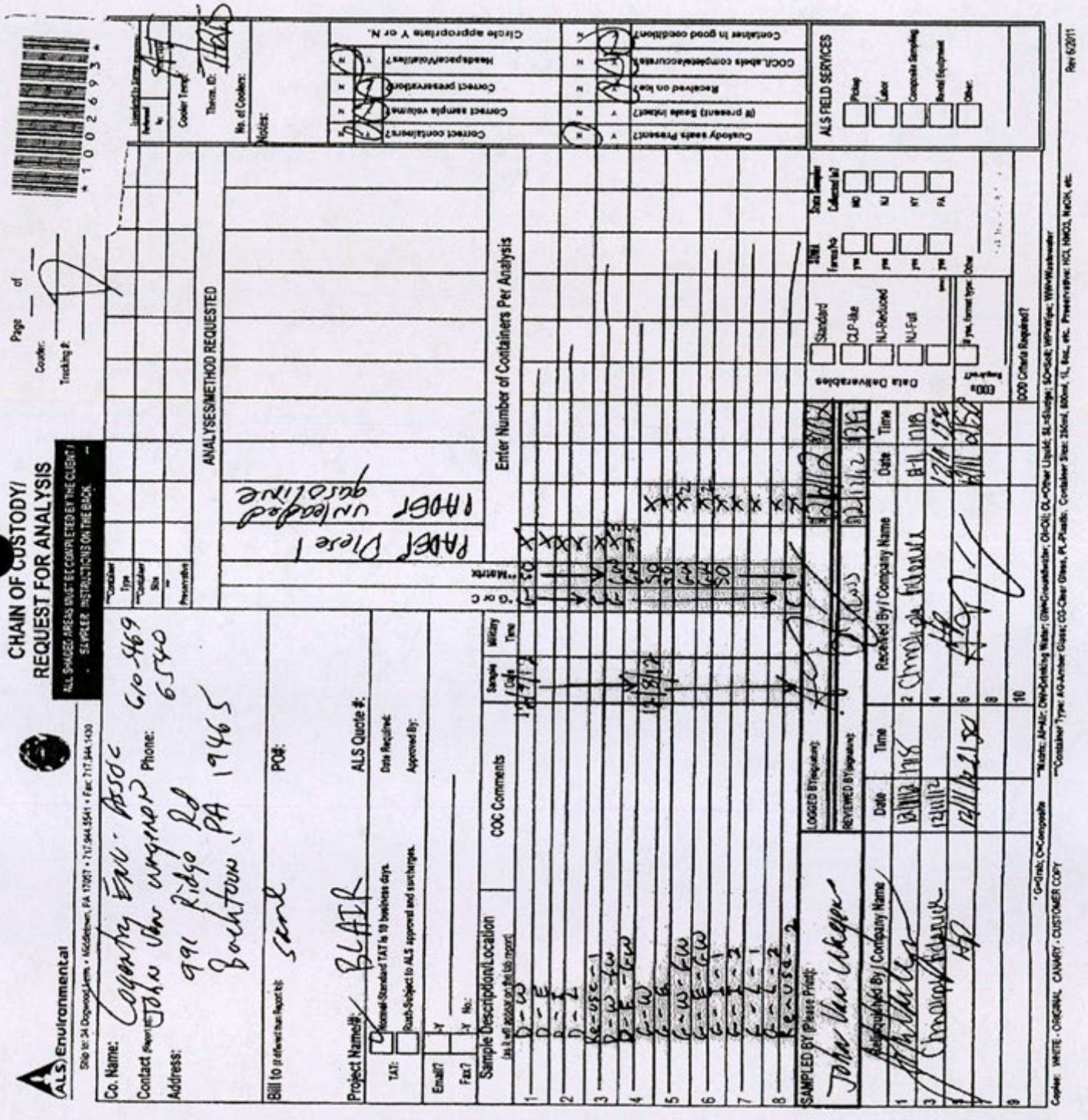
[1] The surrogate 1,2-Dichloroethane-d4 for method 8260/5035 was outside of control limits. The % Recovery was reported as 51 and the control limits were 71 to 146. This result was reported at a dilution of 50.

10/21/2014 1:15:23 PM

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343



10/21/2014 1:15:25 PM

WASTE DISPOSAL DOCUMENTATION

10/21/2014 1:15:26 PM

10/21/2014 1:15:27 PM

RELIABLE AUTO ENTERPRISES

251 Keystone BLVD. • Pottstown, PA 19464

610-326-0468

71140

Trailer / Vehicle License No. _____

Seller
Buyer _____

Address Coventry Environmental

City _____

State _____ Zip _____

Driver Licence No. _____

Weigh master's Signature Megan Gulick

Weigh Master's No. 73921

Price / Commodi

12/07/2012 01:13PM
Rcd I.D. 17
Inbound weight 43560 lb

12/07/2012 01:26PM
Rcd I.D. 17
Gross 43560 lb
Tare 34500 lb
Net 9060 lb

(For trucking) - 150lbs

8910lbs

Copy - Office Yellow Copy - Customer

WESTERN BERK LANDFILL
455 POPLAR NECK RD
BIRDSBORO, PA 19508
6103752772

001561
J D TRASH DISPOSAL
JAMES P. DOWNEY
PO BOX 14293
READING, PA 19612

INVOICE
INBOUND

SITE	CELL	TICKET #	OPERATOR
K6	8	**2852**	MSCHELL

TRUCK	CONTAINER	LICENSE
JD RO20		

REFERENCE	IN	OUT
	12/8/12 9:27 am	12/8/12 9:49 am

CONTRACT: J D TRASH DISPOSAL
BOL:

GROSS 39,440.00LBS Manual In
TARE 36,780.00LBS Manual Out
NET 2,660.00 LBS

QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
1.33	TN	X:C&D	Berks County	100.00			

M SCHELL #73538; S CASSEL #73452

Total
Paid
Change
Check#
Recpt #

I hereby certify that this load does not contain any unauthorized hazardous waste.

SIGNATURE: _____

CUSTOMER COPY

10/21/2014 1:15:28 PM

WESTERN BERK LANDFILL
455 POPLAR NECK RD
BIRDSBORO, PA 19508
6103752772

001561
J D TRASH DISPOSAL
JAMES P. DOWNEY
PO BOX 14293
READING, PA 19612

INVOICE
INBOUND

SITE	CELL	TICKET #	OPERATOR
K6	8	**2858**	MSCHELL

TRUCK	CONTAINER	LICENSE
JD RO20		

REFERENCE	IN	OUT
	12/8/12 11:22 am	12/8/12 11:38 am

CONTRACT: J D TRASH DISPOSAL
BOL:

GROSS 38,040.00LBS Manual In
TARE 36,360.00LBS Manual Out
NET 1,680.00 LBS

QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
0.84	TN	X:C&D	Berks County	100.00			

M SCHELL #73538; S CASSEL #73452

Total
Paid
Change
Check#
Recpt #

I hereby certify that this load does not contain any unauthorized hazardous waste.

SIGNATURE: _____

CUSTOMER COPY

10/21/2014 1:15:29 PM

WESTERN BERK LANDFILL
455 POPLAR NECK RD
BIRDSBORO, PA 19508
6103752772

001561
J D TRASH DISPOSAL
JAMES P. DOWNEY
PO BOX 14293
READING, PA 19612

INVOICE
INBOUND

SITE	CELL	TICKET #	OPERATOR
K6	4	**2951**	MSCHELL

TRUCK	CONTAINER	LICENSE	
JD RO01		YLF2078	
REFERENCE		IN	OUT
		12/11/12 8:28 am	12/11/12 8:45 am

CONTRACT: J D TRASH DISPOSAL
BOL:

GROSS 36,000.00LBS Scale In
TARE 33,480.00LBS Scale Out
NET 2,520.00 LBS

QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
1.26	TN	X:C&D	Berks County	100.00			

M SCHELL #73538; S CASSEL #73452

I hereby certify that this load does not contain any unauthorized hazardous waste.

Total
Paid
Change
Check#
Recpt #

SIGNATURE:_____

CUSTOMER COPY

10/21/2014 1:15:31 PM

WESTERN BERK LANDFILL
455 POPLAR NECK RD
BIRDSBORO, PA 19508
6103752772

001561
J D TRASH DISPOSAL
JAMES P. DOWNEY
PO BOX 14293
READING, PA 19612

INVOICE
INBOUND

SITE	CELL	TICKET #	OPERATOR
K6	4	**3006**	MSCHELL

TRUCK	CONTAINER	LICENSE
JD RL01		

REFERENCE	IN	OUT
	12/11/12 2:54 pm	12/11/12 3:40 pm

CONTRACT: J D TRASH DISPOSAL
BOL:

GROSS 35,140.00LBS Scale In
TARE 33,640.00LBS Scale Out
NET 1,500.00 LBS

QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
0.75	TN	X:C&D	Berks County	100.00			

M SCHELL #73538; S CASSEL #73452

I hereby certify that this load does not contain any unauthorized hazardous waste.

Total
Paid
Change
Check#
Recpt #

SIGNATURE: Bobby Cassel

CUSTOMER COPY

10/21/2014 1:15:32 PM

Monarch

108 East Lake Rd,
PO BOX 330
Woodstown, NJ 08098

Site Job Site - Station

3575 Schuylkill Road

Spring City Pa

BOL: 402083

Transporter 1 Company Name	US EPA ID Number	Transporter's Phone
Monarch Environmental, Inc.	NJR000040667	856-769-9022

Designated Facility name and Site Address	US EPA ID Number	Facility's Phone
Monarch Environmental Recycling 108 East Lake Rd Woodstown, NJ 08098	NJD011881174	856-769-9022

US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packaing Group	Containers No.	Type	Total Quantity	Unit Wt/Vol
Flammable Liquids NOS 3, NA 1993, PG II, (Gasoline Tank Bottoms)	001	CM DM TT	1524	P / Y P G

Additional Descriptions for Materials Listed Above

ERG# 128

24-Hr Emergency Phone: (856) 769-9022

VT-17

profile 2237

GENERATOR'S CERTIFICATION: I herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name | Signature | Month / Day / Year

x 12/7/12

Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Brian Cunningham | Signature: x Brian Cunningham | Month / Day /Year: 12/7/12

Facility Owneror Operator: Certification of Receipt of Above Listed Materials

Printed/Typed Name: Karen Schut | Signature: x KSBM | Month / Day / Year: 12/07/12

LOADING INFORMATION

Start Time: 6:30
Arrival Time: 7:45
Depart Time: 10:00
Finish Time: 2:15

2.75 Hr

Bill To Coventry Environmental

991 Ridge Road

Bucktown Pa

Special Instructions

PO # _____

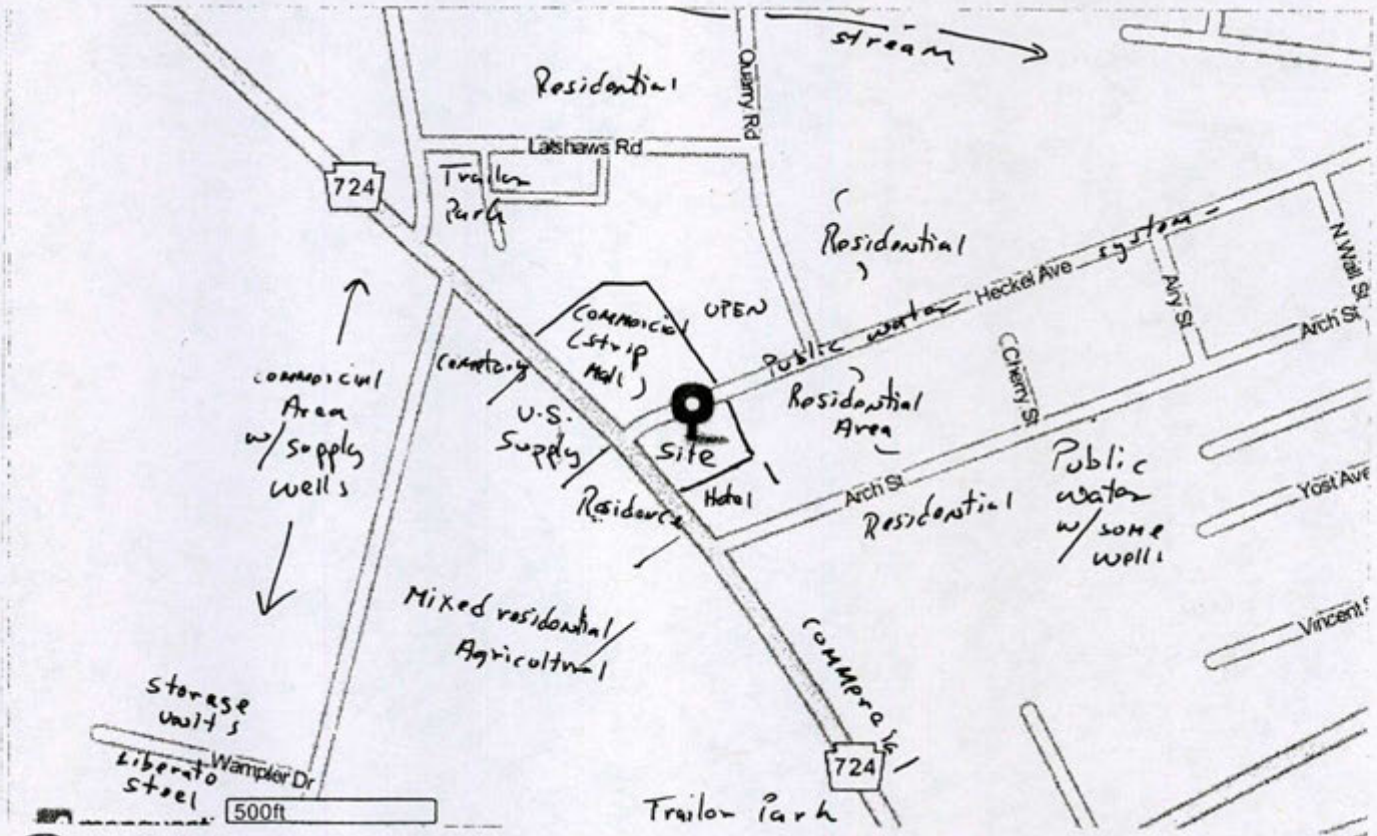
Pick up 8:30 - 9am, Vac tanks on site dry
Ord by John

10/21/2014 1:15:33 PM

APPENDIX B

SITE RECONAISANCE MAP

10/21/2014 1:15:34 PM



Blairs Auto
Site Recon
3575 Schuylkill Rd
Spring City, PA.

10/21/2014 1:15:35 PM

APPENDIX C

EDR REPORTS/WELL SEARCH DATA

10/21/2014 1:15:38 PM

3575 Schuywlkill
3575 Schuywlkill
Spring City, PA 19475

Inquiry Number: 3578128.1s
April 17, 2013

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

FORM-NULL-JUS
10/21/2014 1:15:39 PM

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Detail Map	3
Map Findings Summary	4
Map Findings	7
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Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

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Physical Setting Source Records Searched	A-74

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

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10/21/2014 1:15:40 PM

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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

3575 SCHUYWLKILL
SPRING CITY, PA 19475

COORDINATES

Latitude (North):	40.1789000 - 40° 10' 44.04"
Longitude (West):	75.5626000 - 75° 33' 45.36"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	452100.8
UTM Y (Meters):	4447555.0
Elevation:	265 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40075-B5 PHOENIXVILLE, PA
Most Recent Revision:	1983

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2010
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

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

Site	Database(s)	EPA ID
3575 SCHUYLKILL RD 3575 SCHUYLKILL RD SPRING CITY, PA 19475	EDR US Hist Auto Stat	N/A
JACKS AUTO SVC 3575 SCHUYLKILL RD SPRING CITY, PA 19475	RCRA-SQG FINDS LUST Facility Status: Administrative Close Out (ACO)	PAD987365384
BLAIRS AUTOMOTIVE DBA JACKS AUTO 3575 SCHUYLKILL ROAD SPRING CITY, PA 19475	MANIFEST	N/A

10/21/2014 1:15:41 PM

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

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

Federal CERCLIS NFRAP site List

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

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

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

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent NPL

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

10/21/2014 1:15:43 PM

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

State and tribal registered storage tank lists

UST..... Listing of Pennsylvania Regulated Underground Storage Tanks
AST..... Listing of Pennsylvania Regulated Aboveground Storage Tanks
INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Engineering Controls Site Listing
INST CONTROL..... Institutional Controls Site 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

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

Local Lists of Hazardous waste / Contaminated Sites

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

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

10/21/2014 1:15:44 PM

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
DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
US MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS..... Section 7 Tracking Systems
ICIS..... Integrated Compliance Information System
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System
RADINFO..... Radiation Information Database
RAATS..... RCRA Administrative Action Tracking System
RMP..... Risk Management Plans
NPDES..... NPDES Permit Listing
UIC..... Underground Injection Wells
DRYCLEANERS..... Drycleaner Facility Locations
AIRS..... Permit and Emissions Inventory Data
INDIAN RESERV..... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
PRP..... Potentially Responsible Parties
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
MINES..... MINES
2020 COR ACTION..... 2020 Corrective Action Program List
EPA WATCH LIST..... EPA WATCH LIST
US FIN ASSUR..... Financial Assurance Information
PCB TRANSFORMER..... PCB Transformer Registration Database
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

10/21/2014 1:15:45 PM

EXECUTIVE SUMMARY

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

Federal RCRA generators list

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/12/2013 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VERSITEX OF AMERICA LTD	***3545 SCHUYLKILL RD***	***NW 0 - 1/8 (0.053 mi.)***	***4***	***17***

State and tribal leaking storage tank lists

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

A review of the LUST list, as provided by EDR, and dated 12/03/2012 has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RMC ENVIRONMENTAL SVCS Facility Status: Cleanup Completed	***3450 SCHUYLKILL RD***	***NW 1/4 - 1/2 (0.257 mi.)***	***7***	***20***
GASCARD SITE 710177 Facility Status: Cleanup Completed	***3435 SCHUYLKILL RD***	***NW 1/4 - 1/2 (0.294 mi.)***	***B8***	***25***
ATLANTIC SERVICE STATION Facility Status: Cleanup Completed	***3395 SCHUYLKILL RD***	***NW 1/4 - 1/2 (0.399 mi.)***	***10***	***27***

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 is 1 UNREG LTANKS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SHURR RES	230 N WALL ST	E 1/4 - 1/2 (0.419 mi.)	11	30

10/21/2014 1:15:46 PM

EXECUTIVE SUMMARY

State and tribal institutional control / engineering control registries

AUL: A listing of sites with environmental covenants.

A review of the AUL list, as provided by EDR, and dated 01/22/2013 has revealed that there is 1 AUL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ATLANTIC SERVICE STATION	*3395 SCHUYLKILL RD*	*NW 1/4 - 1/2 (0.399 mi.)*	*10*	*27*

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 01/15/2013 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PNC BANK BRANCH OFC RETAIL PHA	3425 SCHUYLKILL RD	NW 1/4 - 1/2 (0.316 mi.)	B9	26

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: 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.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 2 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	3633 SCHUYLKILL RD	SE 1/8 - 1/4 (0.166 mi.)	5	20
Not reported	3667 SCHUYLKILL RD	SE 1/8 - 1/4 (0.247 mi.)	6	20

10/21/2014 1:15:48 PM

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 11 records.

Site Name	Database(s)
SPRING CITY BOROUGH FILL	CERC-NFRAP
EAST VINCENT IND PARK	ARCHIVE UST
SPRING CITY ELEMENTARY SCHOOL	LUST, ARCHIVE UST
STONEY RUN MOBIL HOMES	LUST
WAWA FOOD MKT 284	UST
PENNSYLVANIA GRANITE CORP	US MINES
GLASGOW, INC.	US MINES
INDEPENDENCE CONSTRUCTION MATERIAL	US MINES
HANSON AGGREGATES EAST, INC.	US MINES
MARTIN LIMESTONE, INC.	US MINES
COLUMBIA GAS BIRDSBORO M & R STATI	MANIFEST

10/21/2014 1:15:49 PM

OVERVIEW MAP - 3578128.1s

- ★ 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
- County Boundary
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

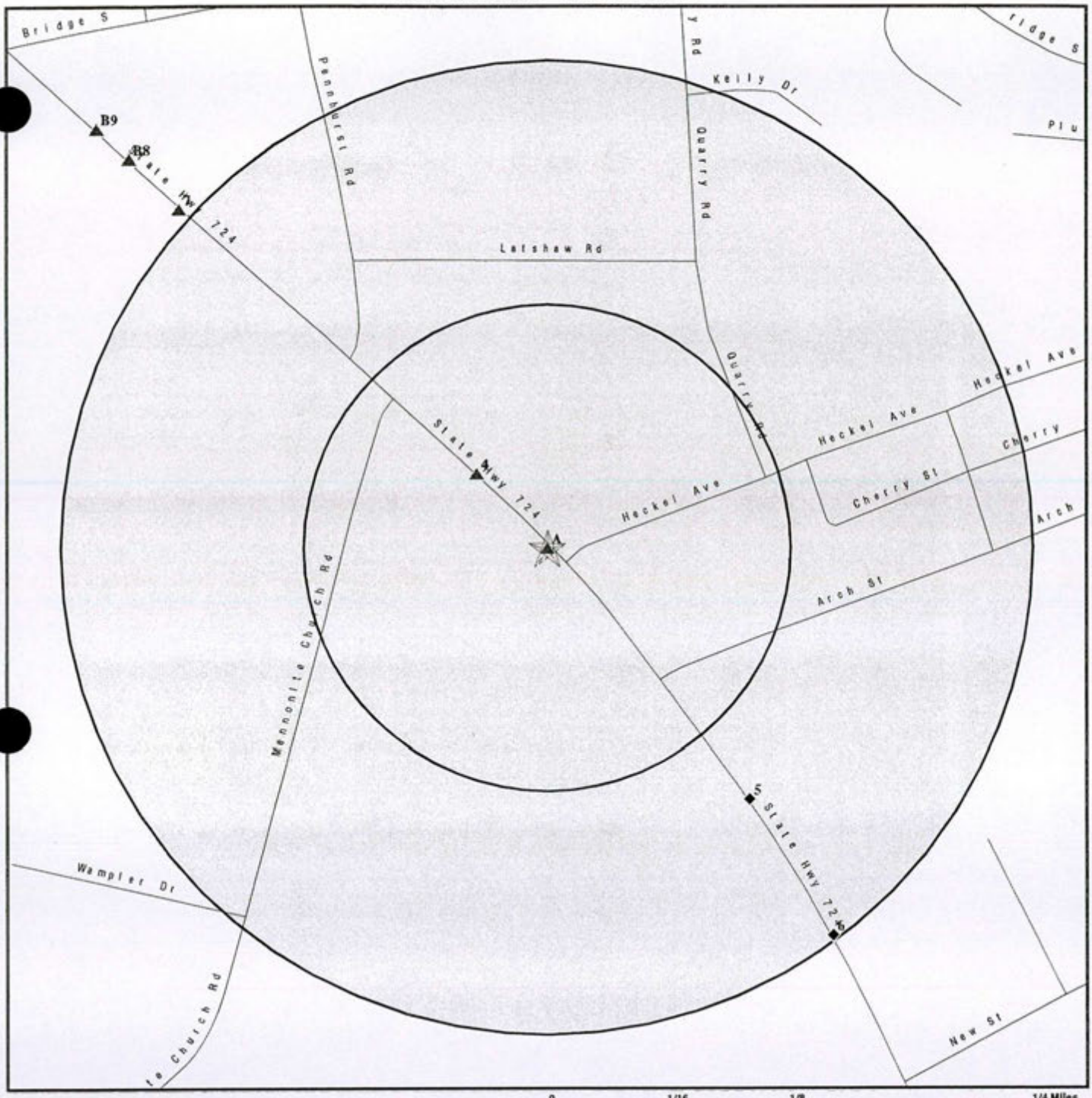
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 3575 Schuywlkill	CLIENT: Coventry Env. Associates, Inc.
ADDRESS: 3575 Schuywlkill Spring City PA 19475	CONTACT: John
LAT/LONG: 40.1789 / 75.5626	INQUIRY #: 3578128.1s DATE: April 17, 2013 10:49 am

Copyright © 2013 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

10/21/2014 1:15:50 PM

DETAIL MAP - 3578128.1s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone

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: 3575 Schuywlkill	CLIENT: Coventry Env. Associates, Inc.
ADDRESS: 3575 Schuywlkill Spring City PA 19475	CONTACT: John
LAT/LONG: 40.1789 / 75.5626	INQUIRY #: 3578128.1s DATE: April 17, 2013 10:49 am

Copyright © 2013 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

10/21/2014 1:15:51 PM

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								
Federal NPL site list								
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
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250	1	1	0	NR	NR	NR	2
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
SHWS	1.000		0	0	0	0	NR	0
HSCA	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500	1	0	0	3	NR	NR	4
UNREG LTANKS	0.500		0	0	1	NR	NR	1
LAST	0.500		0	0	0	NR	NR	0

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
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
FEMA 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
AUL	0.500		0	0	1	NR	NR	1
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	1	NR	NR	1
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
US HIST 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

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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
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250	1	0	0	NR	NR	NR	1
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	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
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250	1	0	2	NR	NR	NR	3
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

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A1
Target Property **3575 SCHUYLKILL RD**
SPRING CITY, PA 19475

EDR US Hist Auto Stat **1015446871**
N/A

Site 1 of 3 in cluster A

Actual: 265 ft.

EDR Historical Auto Stations:

Name:	JACKS AUTO SERVICE
Year:	1999
Address:	3575 SCHUYLKILL RD
Name:	JACKS AUTO SERVICE
Year:	2000
Address:	3575 SCHUYLKILL RD
Name:	BLAIRS AUTOMOTIVE TEXACO
Year:	2005
Address:	3575 SCHUYLKILL RD
Name:	BLAIR S AUTOMOTIVE INC
Year:	2006
Address:	3575 SCHUYLKILL RD
Name:	BLAIRS AUTOMOTIVE INC
Year:	2007
Address:	3575 SCHUYLKILL RD
Name:	BLAIRS AUTOMOTIVE
Year:	2008
Address:	3575 SCHUYLKILL RD
Name:	SPRING CITY TEXACO
Year:	2009
Address:	3575 SCHUYLKILL RD
Name:	WENSELS AUTOMOTIVE SPECIALTY
Year:	2010
Address:	3575 SCHUYLKILL RD
Name:	WENSELS AUTOMOTIVE SPECIALTY EQUIPM
Year:	2011
Address:	3575 SCHUYLKILL RD

A2
Target Property **JACKS AUTO SVC**
3575 SCHUYLKILL RD
SPRING CITY, PA 19475

RCRA-SQG **1000571962**
FINDS **PAD987365384**
LUST

Site 2 of 3 in cluster A

Actual: 265 ft.

RCRA-SQG:

Date form received by agency:	01/29/1992
Facility name:	JACKS AUTO SVC
Facility address:	3575 SCHUYLKILL RD SPRING CITY, PA 19475
EPA ID:	PAD987365384
Contact:	JACK S MOURAR
Contact address:	3575 SCHUYLKILL RD SPRING CITY, PA 19475
Contact country:	US
Contact telephone:	(215) 948-8880

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JACKS AUTO SVC (Continued) **1000571962**

Contact email: Not reported
EPA Region: 03
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: JACK S MOURAR
Owner/operator address: OWNST
OWNCTY, PA 66666
Owner/operator country: Not reported
Owner/operator telephone: (666) 666-6666
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

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

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

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

Waste code: D008
Waste name: LEAD

Violation Status: No violations found

FINDS:

JACKS AUTO SVC (Continued) **1000571962**

Registry ID: 110004864530

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

LUST:

Region:	LUST
Facility Id:	15-42616
Facility Address2:	Not reported
Facility Type:	Undergroung Storage Tank Containing Petroleum
Facility Status:	**Administrative Close Out (ACO)**
Status Date:	03/16/2011
Release Date:	03/13/1997
Source Cause Desc:	Not reported

A3 Target Property **BLAIRS AUTOMOTIVE DBA JACKS AUTO SVC** **MANIFEST** **S110050170**
3575 SCHUYLKILL ROAD **N/A**
SPRING CITY, PA 19475

Site 3 of 3 in cluster A

Actual: 265 ft.

PA MANIFEST:

Year:	2008
Manifest Number:	005019872JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	PAD067098822
TSD Date:	Not reported
TSD Facility Name:	CYCLE CHEM INC
TSD Facility Address:	550 INDUSTRIAL DRIVE
TSD Facility City:	LEWISBERRY
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	2
Waste Number:	D017
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	45
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2008
Manifest Number:	005019872JJK

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BLAIRS AUTOMOTIVE DBA JACKS AUTO SVC (Continued) **S110050170**

Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	PAD067098822
TSD Date:	Not reported
TSD Facility Name:	CYCLE CHEM INC
TSD Facility Address:	550 INDUSTRIAL DRIVE
TSD Facility City:	LEWISBERRY
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D001
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	10
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2008
Manifest Number:	005019869JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	SCD036275626
TSD Date:	Not reported
TSD Facility Name:	GIANT RESOURCE RECOVERY SUMTER INC
TSD Facility Address:	755 INDUSTRIAL ROAD
TSD Facility City:	SUMTER
TSD Facility State:	SC
Facility Telephone:	Not reported
Page Number:	1
Line Number:	3
Waste Number:	XXXX
Container Number:	7
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	275
Unit:	Gallons (liquids only)
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2008
Manifest Number:	005019871JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008

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BLAIRS AUTOMOTIVE DBA JACKS AUTO SVC (Continued) **S110050170**

Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	PAD067098822
TSD Date:	Not reported
TSD Facility Name:	CYCLE CHEM INC
TSD Facility Address:	550 INDUSTRIAL DRIVE
TSD Facility City:	LEWISBERRY
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D035
Container Number:	1
Container Type:	Fiber or plastic boxes, cartons, cases
Waste Quantity:	500
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2008
Manifest Number:	005019871JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	PAD067098822
TSD Date:	Not reported
TSD Facility Name:	CYCLE CHEM INC
TSD Facility Address:	550 INDUSTRIAL DRIVE
TSD Facility City:	LEWISBERRY
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	3
Waste Number:	D001
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	90
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2008
Manifest Number:	005019872JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported

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BLAIRS AUTOMOTIVE DBA JACKS AUTO SVC (Continued) **S110050170**

Contact Phone:	610-948-8879
TSD Epa Id:	PAD067098822
TSD Date:	Not reported
TSD Facility Name:	CYCLE CHEM INC
TSD Facility Address:	550 INDUSTRIAL DRIVE
TSD Facility City:	LEWISBERRY
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	4
Waste Number:	D002
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	40
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2008
Manifest Number:	005019869JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	SCD036275626
TSD Date:	Not reported
TSD Facility Name:	GIANT RESOURCE RECOVERY SUMTER INC
TSD Facility Address:	755 INDUSTRIAL ROAD
TSD Facility City:	SUMTER
TSD Facility State:	SC
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D001
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	50
Unit:	Gallons (liquids only)
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2008
Manifest Number:	005019872JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	PAD067098822
TSD Date:	Not reported

BLAIRS AUTOMOTIVE DBA JACKS AUTO SVC (Continued) **S110050170**

TSD Facility Name:	CYCLE CHEM INC
TSD Facility Address:	550 INDUSTRIAL DRIVE
TSD Facility City:	LEWISBERRY
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	2
Waste Number:	D016
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	45
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2008
Manifest Number:	005019872JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	PAD067098822
TSD Date:	Not reported
TSD Facility Name:	CYCLE CHEM INC
TSD Facility Address:	550 INDUSTRIAL DRIVE
TSD Facility City:	LEWISBERRY
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	2
Waste Number:	D039
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	45
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2008
Manifest Number:	005019871JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	PAD067098822
TSD Date:	Not reported
TSD Facility Name:	CYCLE CHEM INC
TSD Facility Address:	550 INDUSTRIAL DRIVE
TSD Facility City:	LEWISBERRY

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BLAIRS AUTOMOTIVE DBA JACKS AUTO SVC (Continued) **S110050170**

TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D001
Container Number:	1
Container Type:	Fiber or plastic boxes, cartons, cases
Waste Quantity:	500
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2008
Manifest Number:	005019869JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	SCD036275626
TSD Date:	Not reported
TSD Facility Name:	GIANT RESOURCE RECOVERY SUMTER INC
TSD Facility Address:	755 INDUSTRIAL ROAD
TSD Facility City:	SUMTER
TSD Facility State:	SC
Facility Telephone:	Not reported
Page Number:	1
Line Number:	2
Waste Number:	D001
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	50
Unit:	Gallons (liquids only)
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2008
Manifest Number:	005019871JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	PAD067098822
TSD Date:	Not reported
TSD Facility Name:	CYCLE CHEM INC
TSD Facility Address:	550 INDUSTRIAL DRIVE
TSD Facility City:	LEWISBERRY
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1

BLAIRS AUTOMOTIVE DBA JACKS AUTO SVC (Continued) **S110050170**

Line Number:	1
Waste Number:	D018
Container Number:	1
Container Type:	Fiber or plastic boxes, cartons, cases
Waste Quantity:	500
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2008
Manifest Number:	005019871JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	PAD067098822
TSD Date:	Not reported
TSD Facility Name:	CYCLE CHEM INC
TSD Facility Address:	550 INDUSTRIAL DRIVE
TSD Facility City:	LEWISBERRY
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	2
Waste Number:	D001
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	90
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2008
Manifest Number:	005019871JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	PAD067098822
TSD Date:	Not reported
TSD Facility Name:	CYCLE CHEM INC
TSD Facility Address:	550 INDUSTRIAL DRIVE
TSD Facility City:	LEWISBERRY
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	4
Waste Number:	D001
Container Number:	1

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BLAIRS AUTOMOTIVE DBA JACKS AUTO SVC (Continued) **S110050170**

Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	10
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2008
Manifest Number:	005019869JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	SCD036275626
TSD Date:	Not reported
TSD Facility Name:	GIANT RESOURCE RECOVERY SUMTER INC
TSD Facility Address:	755 INDUSTRIAL ROAD
TSD Facility City:	SUMTER
TSD Facility State:	SC
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	F003
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	50
Unit:	Gallons (liquids only)
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2008
Manifest Number:	005019869JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	SCD036275626
TSD Date:	Not reported
TSD Facility Name:	GIANT RESOURCE RECOVERY SUMTER INC
TSD Facility Address:	755 INDUSTRIAL ROAD
TSD Facility City:	SUMTER
TSD Facility State:	SC
Facility Telephone:	Not reported
Page Number:	1
Line Number:	2
Waste Number:	D018
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	50
Unit:	Gallons (liquids only)

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BLAIRS AUTOMOTIVE DBA JACKS AUTO SVC (Continued) **S110050170**

Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2008
Manifest Number:	005019872JJK
Manifest Type:	T
Generator EPA Id:	PAD987365384
Generator Date:	10/27/2008
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-8879
TSD Epa Id:	PAD067098822
TSD Date:	Not reported
TSD Facility Name:	CYCLE CHEM INC
TSD Facility Address:	550 INDUSTRIAL DRIVE
TSD Facility City:	LEWISBERRY
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	3
Waste Number:	D002
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	50
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

4
NW
< 1/8
0.053 mi.
279 ft.

VERSITEX OF AMERICA LTD
3545 SCHUYLKILL RD
SPRING CITY, PA 19475

RCRA-SQG **1000447775**
FINDS **PAD987286507**

Relative:
Higher

Actual:
274 ft.

RCRA-SQG:

Date form received by agency:	11/22/2010
Facility name:	VERSITEX OF AMERICA LTD
Site name:	VERSITEX OF AMERICA
Facility address:	3545 SCHUYLKILL RD SPRING CITY, PA 19475-1527
EPA ID:	PAD987286507
Contact:	FREDERIC S CLAGHORN JR
Contact address:	3545 SCHUYLKILL RD SPRING CITY, PA 19475-1527
Contact country:	US
Contact telephone:	(610) 948-4442
Contact email:	SALES@VERSITEX.COM
EPA Region:	03
Land type:	Other land type
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

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VERSITEX OF AMERICA LTD (Continued) **1000447775**

Owner/Operator Summary:
- Owner/operator name: FREDERIC CLAGHORN
- Owner/operator address: Not reported
  Not reported
- Owner/operator country: Not reported
- Owner/operator telephone: Not reported
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: 01/01/1990
- Owner/Op end date: Not reported

- Owner/operator name: FREDERIC CLAGHORN VERSITEX
- Owner/operator address: 3545 SCHUYLKILL RD
  SPRING CITY, PA 19475
- Owner/operator country: US
- Owner/operator telephone: Not reported
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: 01/01/1990
- Owner/Op end date: Not reported

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

Historical Generators:
- Date form received by agency: 11/17/2010
- Facility name: VERSITEX OF AMERICA LTD
- Classification: Small Quantity Generator

- Date form received by agency: 09/26/1990
- Facility name: VERSITEX OF AMERICA LTD
- Classification: Small Quantity Generator

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

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VERSITEX OF AMERICA LTD (Continued) **1000447775**

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 11/03/2010
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110001023286

Environmental Interest/Information System

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

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

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5
SE
1/8-1/4
0.166 mi.
876 ft.

3633 SCHUYLKILL RD
SPRING CITY, PA 19475

EDR US Hist Auto Stat **1015450528**
N/A

Relative:
Lower

Actual:
251 ft.

EDR Historical Auto Stations:
Name: REDS AUTO REPAIR
Year: 2010
Address: 3633 SCHUYLKILL RD

6
SE
1/8-1/4
0.247 mi.
1306 ft.

3667 SCHUYLKILL RD
SPRING CITY, PA 19475

EDR US Hist Auto Stat **1015451851**
N/A

Relative:
Lower

Actual:
242 ft.

EDR Historical Auto Stations:
Name: DON WALLENCE AUTO SALES INC
Year: 2005
Address: 3667 SCHUYLKILL RD

Name: DON WALLENCE AUTO SALES INC
Year: 2007
Address: 3667 SCHUYLKILL RD

Name: DON WALLENCE AUTO SALES INC
Year: 2008
Address: 3667 SCHUYLKILL RD

7
NW
1/4-1/2
0.257 mi.
1357 ft.

RMC ENVIRONMENTAL SVCS
3450 SCHUYLKILL RD
SPRING CITY, PA 19475

RCRA-CESQG **1004775986**
FINDS **PAR000003640**
LUST
MANIFEST

Relative:
Higher

Actual:
280 ft.

RCRA-CESQG:
Date form received by agency: 03/27/1995
Facility name: RMC ENVIRONMENTAL SVCS
Facility address: 3450 SCHUYLKILL RD
SPRING CITY, PA 19475
EPA ID: PAR000003640
Contact: RICHARD KLING
Contact address: 3450 SCHUYLKILL RD
SPRING CITY, PA 19475
Contact country: US
Contact telephone: (610) 948-5270
Contact email: Not reported
EPA Region: 03
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting

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RMC ENVIRONMENTAL SVCS (Continued) **1004775986**

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

Owner/Operator Summary:

Owner/operator name:	NORMANDEAU ASSOC INC
Owner/operator address:	25 NASHUA RD BEDFORD, NH 03110
Owner/operator country:	Not reported
Owner/operator telephone:	(603) 472-5191
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

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

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Violation Status:	No violations found

FINDS:

Registry ID: 110000988539

Environmental Interest/Information System

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

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RMC ENVIRONMENTAL SVCS (Continued) **1004775986**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LUST:

Region:	LUST
Facility Id:	15-18455
Facility Address2:	Not reported
Facility Type:	Undergroung Storage Tank Containing Petroleum
Facility Status:	**Cleanup Completed**
Status Date:	05/21/1997
Release Date:	08/05/1989
Source Cause Desc:	Not reported

PA MANIFEST:

Year:	2007
Manifest Number:	000084126SKS
Manifest Type:	Not reported
Generator EPA Id:	PAR000003640
Generator Date:	12/12/2007
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-4700
TSD Epa Id:	ILD980613913
TSD Date:	Not reported
TSD Facility Name:	SAFETY KLEEN CORP
TSD Facility Address:	633 E 138TH ST
TSD Facility City:	DOLTON
TSD Facility State:	IL
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	U154
Container Number:	1
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	500
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2007
Manifest Number:	000084126SKS
Manifest Type:	Not reported
Generator EPA Id:	PAR000003640
Generator Date:	12/12/2007
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	610-948-4700
TSD Epa Id:	ILD980613913
TSD Date:	Not reported
TSD Facility Name:	SAFETY KLEEN CORP
TSD Facility Address:	633 E 138TH ST
TSD Facility City:	DOLTON

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RMC ENVIRONMENTAL SVCS (Continued) **1004775986**

TSD Facility State:	IL
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	U122
Container Number:	1
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	500
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2006
Manifest Number:	000206684CEX
Manifest Type:	T
Generator EPA Id:	PAR000003640
Generator Date:	12/05/2006
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD Epa Id:	ILD980613913
TSD Date:	Not reported
TSD Facility Name:	SAFETY KLEEN CORP
TSD Facility Address:	633 E 138TH ST
TSD Facility City:	DOLTON
TSD Facility State:	IL
Facility Telephone:	610-948-4700
Page Number:	1
Line Number:	1
Waste Number:	U154
Container Number:	1
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	400
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2006
Manifest Number:	000206684CEX
Manifest Type:	T
Generator EPA Id:	PAR000003640
Generator Date:	12/05/2006
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD Epa Id:	ILD980613913
TSD Date:	Not reported
TSD Facility Name:	SAFETY KLEEN CORP
TSD Facility Address:	633 E 138TH ST
TSD Facility City:	DOLTON
TSD Facility State:	IL
Facility Telephone:	610-948-4700
Page Number:	1

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RMC ENVIRONMENTAL SVCS (Continued) **1004775986**

Line Number:	2
Waste Number:	U154
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	40
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2006
Manifest Number:	000206684CEX
Manifest Type:	T
Generator EPA Id:	PAR000003640
Generator Date:	12/05/2006
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD Epa Id:	ILD980613913
TSD Date:	Not reported
TSD Facility Name:	SAFETY KLEEN CORP
TSD Facility Address:	633 E 138TH ST
TSD Facility City:	DOLTON
TSD Facility State:	IL
Facility Telephone:	610-948-4700
Page Number:	1
Line Number:	1
Waste Number:	U122
Container Number:	1
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	400
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2006
Manifest Number:	000206684CEX
Manifest Type:	T
Generator EPA Id:	PAR000003640
Generator Date:	12/05/2006
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD Epa Id:	ILD980613913
TSD Date:	Not reported
TSD Facility Name:	SAFETY KLEEN CORP
TSD Facility Address:	633 E 138TH ST
TSD Facility City:	DOLTON
TSD Facility State:	IL
Facility Telephone:	610-948-4700
Page Number:	1
Line Number:	2
Waste Number:	U122
Container Number:	1

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RMC ENVIRONMENTAL SVCS (Continued) **1004775986**

Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	40
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

B8 **GASCARD SITE 710177** **LUST U001090808**
NW **3435 SCHUYLKILL RD** **UST N/A**
1/4-1/2 **SPRING CITY, PA 19475**
0.294 mi.
1550 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
283 ft.

LUST:

Region:	LUST
Facility Id:	15-41875
Facility Address2:	Not reported
Facility Type:	Undergroung Storage Tank Containing Petroleum
Facility Status:	**Cleanup Completed**
Status Date:	06/02/2005
Release Date:	01/02/2005
Source Cause Desc:	Dispenser/Dispensing Equip.

UST:

Region:	EP SE Rgnl Off Norristown
Site ID:	569687
Other Id:	15-41875
2nd Facility Addr:	Not reported
Municipality Name:	East Vincent
Client Id Number:	165990
Mailing Name:	DEL VAL GASCARD INC
Mailing Address:	PO BOX 699
Mailing Address 2:	Not reported
Mailing City,St,Zip:	ROYERSFORD, PA 19468
Registration Expiration Date:	02/04/2014
Tank Seq No:	001
Tank Code:	UST
Date Installed:	05/01/1990
Capacity:	12000
Substance:	Diesel Fuel
Tank Status:	**Currently In Use**
Inspection Code:	FOI
Tank Last Dt Inspected:	06/28/2010
Tank Seq No:	002
Tank Code:	UST
Date Installed:	05/01/1990
Capacity:	8000
Substance:	Diesel Fuel
Tank Status:	**Currently In Use**
Inspection Code:	FOI
Tank Last Dt Inspected:	06/28/2010
Tank Seq No:	003

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GASCARD SITE 710177 (Continued) **U001090808**

Tank Code:	UST
Date Installed:	05/01/1990
Capacity:	8000
Substance:	Gasoline
Tank Status:	**Currently In Use**
Inspection Code:	FOI
Tank Last Dt Inspected:	06/28/2010

Tank Seq No:	004
Tank Code:	UST
Date Installed:	05/01/1990
Capacity:	8000
Substance:	Gasoline
Tank Status:	**Currently In Use**
Inspection Code:	FOI
Tank Last Dt Inspected:	06/28/2010

B9
NW
1/4-1/2
0.316 mi.
1670 ft.

Relative:
Higher

Actual:
286 ft.

PNC BANK BRANCH OFC RETAIL PHARM STORE **VCP S106983641**
3425 SCHUYLKILL RD **N/A**
SPRING CITY, PA 19475

Site 2 of 2 in cluster B

VCP:

Cleanup Records:

Municipality:	East Vincent Twp
Region:	Southeast Region
Category Desc:	Lead
Type:	Complete Sites
LRP Acct:	513
Remediation:	Background Standard
Activity:	NO
Date Approved:	12/14/2001
Date Received:	Not reported
Date Nonuse:	Not reported
ICS Code:	Not reported
Media:	Groundwater

Activity:

Activity ID:	617198, 617198,
Municipality:	East Vincent Twp
Region:	Southeast Region
Category Desc:	Not reported
Type:	Complete Sites
LRP Acct:	513
Remediation:	Background Standard
Activity:	NO
Date Approved:	12/14/2001
Date Received:	Not reported
Date Nonuse:	Not reported
ICS Code:	Not reported
Media:	Groundwater

10
NW
1/4-1/2
0.399 mi.
2105 ft.

ATLANTIC SERVICE STATION
3395 SCHUYLKILL RD
SPRING CITY, PA 19475

RCRA-SQG 1000459019
FINDS PAD987321999
LUST
UST
AUL

Relative:
Higher

Actual:
293 ft.

RCRA-SQG:

Date form received by agency:	10/29/1990
Facility name:	ATLANTIC SERVICE STATION
Facility address:	3395 SCHUYLKILL RD SPRING CITY, PA 19475
EPA ID:	PAD987321999
Mailing address:	1801 MARKET ST RISK MGT PHILADELPHIA, PA 19103
Contact:	WM DELAUGHTER
Contact address:	3395 SCHUYLKILL RD SPRING CITY, PA 19475
Contact country:	US
Contact telephone:	(215) 977-6108
Contact email:	Not reported
EPA Region:	03
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

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

Owner/operator name:	ATLANTIC REFINING & MKT
Owner/operator address:	OWNERSTREET OWNERCITY, AK 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(215) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

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ATLANTIC SERVICE STATION (Continued) **1000459019**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Hazardous Waste Summary:

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

Violation Status: No violations found

FINDS:

Registry ID: 110001022633

Environmental Interest/Information System

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

LUST:

Region:	LUST
Facility Id:	15-30770
Facility Address2:	Not reported
Facility Type:	Undergroung Storage Tank Containing Petroleum
Facility Status:	**Cleanup Completed**
Status Date:	05/14/2003
Release Date:	02/25/1994
Source Cause Desc:	Not reported

Region:	4100
Facility Id:	15-30770
Facility Address2:	Not reported
Facility Type:	Undergroung Storage Tank Containing Petroleum
Facility Status:	**Cleanup Completed**
Status Date:	06/12/2009
Release Date:	05/14/2003
Source Cause Desc:	Undetermined

Region:	4100
Facility Id:	15-30770
Facility Address2:	Not reported
Facility Type:	Undergroung Storage Tank Containing Petroleum
Facility Status:	**Cleanup Completed**

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ATLANTIC SERVICE STATION (Continued) **1000459019**

Status Date: 05/14/2003
Release Date: 03/13/2002
Source Cause Desc: Not reported

UST:
Region: EP SE Rgnl Off Norristown
Site ID: 569404
Other Id: 15-30770
2nd Facility Addr: Not reported
Municipality Name: East Vincent
Client Id Number: 280118
Mailing Name: MG OIL INC
Mailing Address: 27 BAKER WAY
Mailing Address 2: Not reported
Mailing City,St,Zip: PENNINGTON, NJ 08534
Registration Expiration Date: 02/04/2014

Tank Seq No: 004
Tank Code: UST
Date Installed: 12/12/1990
Capacity: 10000
Substance: Gasoline
Tank Status: **Currently In Use**
Inspection Code: FOI
Tank Last Dt Inspected: 08/24/2011

Tank Seq No: 005
Tank Code: UST
Date Installed: 12/12/1990
Capacity: 10000
Substance: Gasoline
Tank Status: **Currently In Use**
Inspection Code: FOI
Tank Last Dt Inspected: 08/24/2011

Tank Seq No: 006
Tank Code: UST
Date Installed: 12/12/1990
Capacity: 10000
Substance: Gasoline
Tank Status: **Currently In Use**
Inspection Code: FOI
Tank Last Dt Inspected: 08/24/2011

Tank Seq No: 009
Tank Code: UST
Date Installed: 06/28/2002
Capacity: 10000
Substance: Diesel Fuel
Tank Status: **Currently In Use**
Inspection Code: FOI
Tank Last Dt Inspected: 08/24/2011

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ATLANTIC SERVICE STATION (Continued) **1000459019**

AUL:

Faciility Id:	586224
Primary Facility Type:	Storage Tank Locator
Latitude:	40 10' 57"
Longitude:	-75 32' 55"
Region:	Southeast Region
Client Id:	280118
Client Name:	MG OIL INC
Incident Id / Name Description:	31577NOC
Remediation Id:	N/A
Remediation Received Date:	N/A
Address:	3395 SCHUYLKILL RDSPRING CITY, PA 19475
AUL Code:	ENVIRONMENTAL COVENANT
Received Date:	06/15/2009
Action Date:	06/15/2009
Action:	DEP SIGNED
Recorded Date:	06/30/2009
Terminated Date:	Not reported
Amended Date:	Not reported
Activity Use Limitation Code:	GWPRO
Activity Use Limitation Desc:	GROUNDWATER USE PROHIBITED
Aul Comment:	Not reported

11
East
1/4-1/2
0.419 mi.
2211 ft.

SHURR RES
230 N WALL ST
SPRING CITY BORO, PA

UNREG LTANKS **S105918699**
N/A

Relative:
Lower

Actual:
195 ft.

UNREG LTANKS:

Region:	South East
Contaminant:	DIESEL FUEL
Closed:	**Not reported**
Class:	Cleanup of Tanks using authorities other than Act 32

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Count: 11 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHESTER COUNTY	M300001990	PENNSYLVANIA GRANITE CORP	AMERICAN BLACK QUARRY		US MINES
CHESTER COUNTY	M300001195	GLASGOW, INC.	CATANACH QUARRY		US MINES
CHESTER COUNTY	M300001194	INDEPENDENCE CONSTRUCTION MATERIAL	DEVAULT QUARRY		US MINES
CHESTER COUNTY	M300001193	HANSON AGGREGATES EAST, INC.	DOWNINGTOWN QUARRY		US MINES
CHESTER COUNTY	M300001196	MARTIN LIMESTONE, INC.	HONEY BROOK QUARRY		US MINES
PARKER FORD	S111773123	COLUMBIA GAS BIRDSBORO M & R STATI	3150 NEW SCHUYLKILL RD	19475	MANIFEST
ROYERSFORD	U003918984	WAWA FOOD MKT 284	RT 422 & WALNUT ST	19468	UST
SPRING CITY	1003006474	SPRING CITY BOROUGH FILL	HALL ST & CHURCH ST	19475	CERC-NFRAP
SPRING CITY	S111109852	EAST VINCENT IND PARK	MENNONITE RD	19475	ARCHIVE UST
SPRING CITY	S105800161	STONEY RUN MOBIL HOMES	130 SCHUYLKILL RD	19475	LUST
SPRING CITY	S111116422	SPRING CITY ELEMENTARY SCHOOL	190 WALL ST	19475	LUST, ARCHIVE UST

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

3575 SCHUYWLKILL
3575 SCHUYWLKILL
SPRING CITY, PA 19475

TARGET PROPERTY COORDINATES

Latitude (North):	40.1789 - 40° 10' 44.04"
Longitude (West):	75.5626 - 75° 33' 45.36"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	452100.8
UTM Y (Meters):	4447555.0
Elevation:	265 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	40075-B5 PHOENIXVILLE, PA
Most Recent Revision:	1983

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

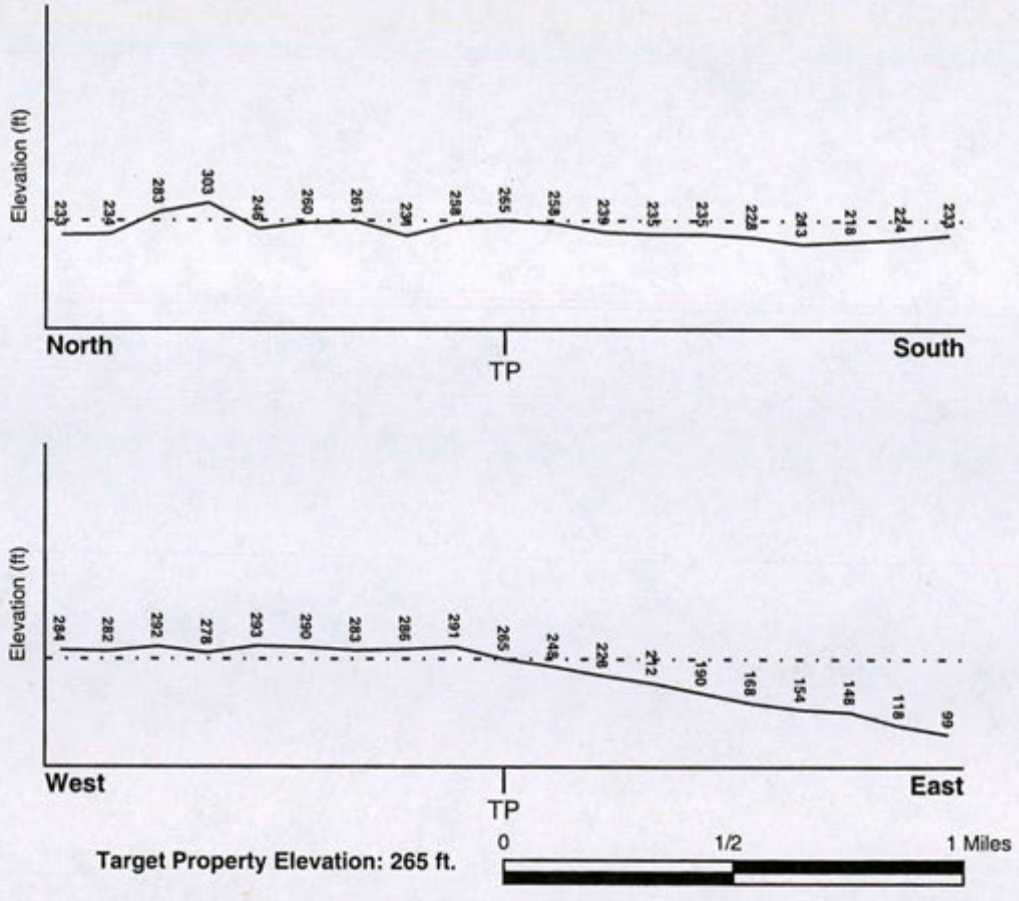
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
CHESTER, PA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	42029C - FEMA DFIRM Flood data
Additional Panels in search area:	42091C - FEMA DFIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PHOENIXVILLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Mesozoic
System:	Triassic
Series:	Triassic
Code:	Tr *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	PENN
Soil Surface Texture:	channery - silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	LOW
Depth to Bedrock Min:	> 20 inches
Depth to Bedrock Max:	> 40 inches

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	8 inches	channery - silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 0.60	Max: 5.50 Min: 3.60
2	8 inches	21 inches	channery - silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 0.60	Max: 6.00 Min: 3.60
3	21 inches	34 inches	very channery - silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 0.60	Max: 6.50 Min: 5.10
4	34 inches	38 inches	unweathered bedrock	Not reported	Not reported	Max: 6.00 Min: 0.20	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: very stony - loam
silt loam
loam
extremely stony - silt loam
extremely stony - loam

Surficial Soil Types: very stony - loam
silt loam
loam
extremely stony - silt loam
extremely stony - loam

Shallow Soil Types: sandy loam
loam
silt loam

Deeper Soil Types: weathered bedrock
stratified
loam

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40001011652	1/8 - 1/4 Mile WNW
G15	USGS40001011767	1/4 - 1/2 Mile NW
H21	USGS40001011329	1/2 - 1 Mile SSW
J26	USGS40001012045	1/2 - 1 Mile NNW
K28	USGS40001011653	1/2 - 1 Mile West
M33	USGS40001011361	1/2 - 1 Mile SW
N35	USGS40001012099	1/2 - 1 Mile North
O38	USGS40001011271	1/2 - 1 Mile SSW
P41	USGS40001012100	1/2 - 1 Mile NNW
Q42	USGS40001012068	1/2 - 1 Mile NNW
O46	USGS40001011239	1/2 - 1 Mile SSW
R49	USGS40001011914	1/2 - 1 Mile NW
O51	USGS40001011232	1/2 - 1 Mile SSW
S57	USGS40001012126	1/2 - 1 Mile NNW
U58	USGS40001011720	1/2 - 1 Mile East
V62	USGS40001011831	1/2 - 1 Mile WNW
U64	USGS40001011750	1/2 - 1 Mile ENE
U66	USGS40001011709	1/2 - 1 Mile East
W67	USGS40001012188	1/2 - 1 Mile North
Y72	USGS40001011160	1/2 - 1 Mile SSW
Z73	USGS40001012176	1/2 - 1 Mile NNW
AA76	USGS40001012221	1/2 - 1 Mile North
AB77	USGS40001012116	1/2 - 1 Mile NW
AC79	USGS40001011377	1/2 - 1 Mile ESE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
11	PA1150166	1/4 - 1/2 Mile SW

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	PASI30000056945	1/8 - 1/4 Mile WNW

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	SPAW0058808	1/8 - 1/4 Mile West
A4	PASI30000056842	1/8 - 1/4 Mile West
B5	PASI30000057243	1/8 - 1/4 Mile NNW
B6	SPAW0058752	1/8 - 1/4 Mile NNW
C7	SPAW0058741	1/8 - 1/4 Mile ENE
C8	PASI30000056890	1/8 - 1/4 Mile ENE
D9	PASI30000057482	1/4 - 1/2 Mile North
D10	SPAW0062057	1/4 - 1/2 Mile North
E12	PASI30000056113	1/4 - 1/2 Mile SSE
F13	PASI30000057719	1/4 - 1/2 Mile NNE
F14	SPAW0058765	1/4 - 1/2 Mile NNE
G16	PASI30000057333	1/4 - 1/2 Mile NW
E17	SPAW0058756	1/4 - 1/2 Mile SSE
E18	PASI30000056038	1/4 - 1/2 Mile SSE
H19	PASI30000055561	1/2 - 1 Mile SSW
H20	SPAW0058744	1/2 - 1 Mile SSW
H22	PASI30000055560	1/2 - 1 Mile SSW
23	PASI30000057982	1/2 - 1 Mile NW
I24	PASI30000055375	1/2 - 1 Mile South
I25	SPAW0058749	1/2 - 1 Mile South
J27	PASI30000058362	1/2 - 1 Mile NNW
K29	PASI30000056944	1/2 - 1 Mile West
L30	PASI30000055160	1/2 - 1 Mile South
L31	SPAW0058750	1/2 - 1 Mile South
M32	PASI30000055697	1/2 - 1 Mile SW
N34	PASI30000058547	1/2 - 1 Mile North
O36	SPAW0057176	1/2 - 1 Mile SSW
O37	PASI30000055287	1/2 - 1 Mile SSW
O39	PASI30000055286	1/2 - 1 Mile SSW
P40	PASI30000058546	1/2 - 1 Mile NNW
Q43	PASI30000058439	1/2 - 1 Mile NNW
M44	SPAW0058815	1/2 - 1 Mile SW
M45	PASI30000055659	1/2 - 1 Mile SW
O47	PASI30000055208	1/2 - 1 Mile SSW
N48	PASI30000058679	1/2 - 1 Mile North
R50	PASI30000057978	1/2 - 1 Mile NW
O52	PASI30000055159	1/2 - 1 Mile SSW
S53	PASI30000058629	1/2 - 1 Mile NNW
T54	PASI30000055242	1/2 - 1 Mile SW
T55	SPAW0058667	1/2 - 1 Mile SW
S56	PASI30000058671	1/2 - 1 Mile NNW
U59	PASI30000057194	1/2 - 1 Mile East
U60	PASI30000057088	1/2 - 1 Mile East
V61	PASI30000057622	1/2 - 1 Mile WNW
U63	PASI30000057288	1/2 - 1 Mile ENE
U65	PASI30000057137	1/2 - 1 Mile East
W68	PASI30000058885	1/2 - 1 Mile North
X69	PASI30000055003	1/2 - 1 Mile SSE
X70	SPAW0058743	1/2 - 1 Mile SSE
Y71	PASI30000054895	1/2 - 1 Mile SSW
Z74	PASI30000058852	1/2 - 1 Mile NNW
AA75	PASI30000058983	1/2 - 1 Mile North

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AB78	PASI30000058628	1/2 - 1 Mile NW
AC80	PASI30000055731	1/2 - 1 Mile ESE

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PHYSICAL SETTING SOURCE MAP - 3578128.1s

- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells

SITE NAME: 3575 Schuywlkill	CLIENT: Coventry Env. Associates, Inc.
ADDRESS: 3575 Schuywlkill Spring City PA 19475	CONTACT: John
LAT/LONG: 40.1789 / 75.5626	INQUIRY #: 3578128.1s DATE: April 17, 2013 10:50 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
A1 **WNW** **1/8 - 1/4 Mile** **Higher**	**PA WELLS**	**PASI30000056945**

Dep counter:	0	Siteid:	401047075335401
Transactio:	1	Local welln:	CH 3202
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	120
Elevation:	300		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	20	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	08/29/1988
Date updated:	08/25/1989		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1797222222		
Longitude dd:	-75.565		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	12/23/1976	Pagwis id:	12150
Source site:	1	Local permit:	Not Reported
Latest owner:	12215	Driller sc:	0
Latest prod:	35932	Latest well:	12150
Site id:	PASI30000056945		

	Database	EDR ID Number
A2 **WNW** **1/8 - 1/4 Mile** **Higher**	**FED USGS**	**USGS40001011652**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401047075335401		
Monloc name:	CH 3202		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1798238
Longitude:	-75.5646327	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	290
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	19761223	Welldepth:	120
Welldepth units:	ft	Wellholedepth:	120
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1987-10-30	19.2	

A3
West
1/8 - 1/4 Mile
Higher

PA WELLS **SPAW0058808**

Well ID:	X 2631		
Owner's Name:	SLINGLUFF CONST	County	CHESTER
Latitude:	401045	Longitude:	753357
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	Not Reported
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	120	Finish:	OPEN HOLE
Casing 1:	43	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-00
Static Water Level:	35	Production WL:	Not Reported
Yield (gpm):	100	Yield Measurement Method:	5
Drawdown:	85	Test Time:	Not Reported
Bedrock:	12	Driller:	0188
Water Bearing Zone 1:	94	Water Bearing Zone 2:	110
Water Bearing Zone 3:	Not Reported	Lithology:	Not Reported
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

A4
West
1/8 - 1/4 Mile
Higher

PA WELLS **PASI30000056842**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 2631
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	Not Reported	Well depth:	120
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1791666667		
Longitude dd:	-75.5658333333		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	12
Bedrock not:	0	Saltwaterz:	0
Date drilled:	11/01/1963	Pagwis id:	103372
Source site:	2	Local permit:	Not Reported
Latest owner:	102658	Driller sc:	0
Latest prod:	103901	Latest well:	105625
Site id:	PASI30000056842		

B5
NNW
1/8 - 1/4 Mile
Lower

PA WELLS **PASI30000057243**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0242
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	100
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1813888889		
Longitude dd:	-75.5638888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	47
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1968	Pagwis id:	103316
Source site:	2	Local permit:	Not Reported
Latest owner:	102602	Driller sc:	0
Latest prod:	103845	Latest well:	105569
Site id:	PASI30000057243		

B6
NNW
1/8 - 1/4 Mile
Lower

PA WELLS **SPAW0058752**

Well ID:	X 0242		
Owner's Name:	SCHAFFER WALTER	County	CHESTER
Latitude:	401053	Longitude:	753350
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	HILLSIDE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	100	Finish:	OTHER
Casing 1:	50	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

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Grouted:	Not Reported	Date Drilled:	00-00-68
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	8	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	4
Bedrock:	47	Driller:	0072
Water Bearing Zone 1:	86	Water Bearing Zone 2:	92
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

C7
ENE
1/8 - 1/4 Mile
Lower

PA WELLS **SPAW0058741**

Well ID:	X 0226		
Owner's Name:	SLINGLUFF PETER	County	CHESTER
Latitude:	401046	Longitude:	753333
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	100	Finish:	OTHER
Casing 1:	30	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-69
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	8	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	3
Bedrock:	27	Driller:	0072
Water Bearing Zone 1:	48	Water Bearing Zone 2:	79
Water Bearing Zone 3:	Not Reported	Lithology:	Not Reported
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

C8
ENE
1/8 - 1/4 Mile
Lower

PA WELLS **PASI30000056890**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0226
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	100
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1794444444		
Longitude dd:	-75.5591666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	27
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1969	Pagwis id:	103305
Source site:	2	Local permit:	Not Reported
Latest owner:	102591	Driller sc:	0
Latest prod:	103834	Latest well:	105558
Site id:	PASI30000056890		

D9
North
1/4 - 1/2 Mile
Higher

PA WELLS **PASI30000057482**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0577
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	150
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	SCHUYLKILL TWP.		
Latitude dd:	40.1827777778		
Longitude dd:	-75.5636111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	37
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	106620
Source site:	2	Local permit:	Not Reported
Latest owner:	105904	Driller sc:	0
Latest prod:	107146	Latest well:	108827
Site id:	PASI30000057482		

D10
North
1/4 - 1/2 Mile
Higher

PA WELLS **SPAW0062057**

Well ID:	X 0577		
Owner's Name:	E DEMUTI,JR	County	CHESTER
Latitude:	401058	Longitude:	753349
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	150	Finish:	OTHER
Casing 1:	40	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

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Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	5	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	9
Bedrock:	37	Driller:	0072
Water Bearing Zone 1:	146	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 3:	Not Reported	Lithology:	Not Reported
Municipality:	SCHUYLKILL	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

11
SW
1/4 - 1/2 Mile
Higher

FRDS PWS **PA1150166**

Pwsid:	PA1150166	Epa region:	03
State:	PA	County:	Chester
Pws name:	PA AMERICAN WATER COMPANY		
Population Served:	34900	Pwssvcconn:	11300
PWS Source:	Surface_water		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	002		
Facility name:	WELL ONE		
Facility type:	Well	Treatment process:	flocculation
Treatment objective:	particulate removal		
Contact name:	GARY CROSSMAN		
Original name:	PA AMERICAN WATER COMPANY		
Contact phone:	610-948-9125	Contact address1:	4 WELLINGTON BLVD
Contact address2:	Not Reported		
Contact city:	READING		
Contact zip:	19610		
Facility id:	003		
Facility name:	WELL 3		
Facility type:	Well	Treatment process:	flocculation
Treatment objective:	particulate removal		
Facility id:	004		
Facility name:	WELL 4		
Facility type:	Well	Treatment process:	flocculation
Treatment objective:	particulate removal		
Facility id:	101		
Facility name:	FILTER PLANT		
Facility type:	Sampling_station	Treatment process:	flocculation
Treatment objective:	particulate removal		
Facility id:	102		
Facility name:	WELL 1		
Facility type:	Sampling_station	Treatment process:	flocculation
Treatment objective:	particulate removal		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Facility id:	103		
Facility name:	WELL #3		
Facility type:	Sampling_station	Treatment process:	flocculation
Treatment objective:	particulate removal		
Facility id:	104		
Facility name:	WELL #4		
Facility type:	Sampling_station	Treatment process:	flocculation
Treatment objective:	particulate removal		
Facility id:	103		
Facility name:	WELL #3		
Facility type:	Sampling_station	Treatment process:	sedimentation
Treatment objective:	particulate removal		
Facility id:	104		
Facility name:	WELL #4		
Facility type:	Sampling_station	Treatment process:	sedimentation
Treatment objective:	particulate removal		
Facility id:	300		
Facility name:	WATER PLANT		
Facility type:	Treatment_plant	Treatment process:	sedimentation
Treatment objective:	particulate removal		
Facility id:	301		
Facility name:	WELL 1		
Facility type:	Treatment_plant	Treatment process:	sedimentation
Treatment objective:	particulate removal		
Facility id:	302		
Facility name:	WELL 3		
Facility type:	Treatment_plant	Treatment process:	sedimentation
Treatment objective:	particulate removal		
Facility id:	303		
Facility name:	WELL 4		
Facility type:	Treatment_plant	Treatment process:	sedimentation
Treatment objective:	particulate removal		
Facility id:	300		
Facility name:	WATER PLANT		
Facility type:	Treatment_plant	Treatment process:	flocculation
Treatment objective:	particulate removal		
Facility id:	301		
Facility name:	WELL 1		
Facility type:	Treatment_plant	Treatment process:	flocculation
Treatment objective:	particulate removal		
Facility id:	302		
Facility name:	WELL 3		
Facility type:	Treatment_plant	Treatment process:	flocculation
Treatment objective:	particulate removal		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Facility id:	303		
Facility name:	WELL 4		
Facility type:	Treatment_plant	Treatment process:	flocculation
Treatment objective:	particulate removal		
Facility id:	001		
Facility name:	SCHUYLKILL RIVER		
Facility type:	Intake	Treatment process:	ph adjustment, pre
Treatment objective:	particulate removal		
Facility id:	002		
Facility name:	WELL ONE		
Facility type:	Well	Treatment process:	ph adjustment, pre
Treatment objective:	particulate removal		
Facility id:	003		
Facility name:	WELL 3		
Facility type:	Well	Treatment process:	ph adjustment, pre
Treatment objective:	particulate removal		
Facility id:	004		
Facility name:	WELL 4		
Facility type:	Well	Treatment process:	ph adjustment, pre
Treatment objective:	particulate removal		
Facility id:	101		
Facility name:	FILTER PLANT		
Facility type:	Sampling_station	Treatment process:	ph adjustment, pre
Treatment objective:	particulate removal		
Facility id:	102		
Facility name:	WELL 1		
Facility type:	Sampling_station	Treatment process:	ph adjustment, pre
Treatment objective:	particulate removal		
Facility id:	103		
Facility name:	WELL #3		
Facility type:	Sampling_station	Treatment process:	ph adjustment, pre
Treatment objective:	particulate removal		
Facility id:	104		
Facility name:	WELL #4		
Facility type:	Sampling_station	Treatment process:	ph adjustment, pre
Treatment objective:	particulate removal		
Facility id:	300		
Facility name:	WATER PLANT		
Facility type:	Treatment_plant	Treatment process:	ph adjustment, pre
Treatment objective:	particulate removal		
Facility id:	301		
Facility name:	WELL 1		
Facility type:	Treatment_plant	Treatment process:	ph adjustment, pre
Treatment objective:	particulate removal		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Facility id:	302		
Facility name:	WELL 3		
Facility type:	Treatment_plant	Treatment process:	ph adjustment, pre
Treatment objective:	particulate removal		
Facility id:	303		
Facility name:	WELL 4		
Facility type:	Treatment_plant	Treatment process:	ph adjustment, pre
Treatment objective:	particulate removal		
Facility id:	001		
Facility name:	SCHUYLKILL RIVER		
Facility type:	Intake	Treatment process:	sedimentation
Treatment objective:	particulate removal		
Facility id:	002		
Facility name:	WELL ONE		
Facility type:	Well	Treatment process:	sedimentation
Treatment objective:	particulate removal		
Facility id:	003		
Facility name:	WELL 3		
Facility type:	Well	Treatment process:	sedimentation
Treatment objective:	particulate removal		
Facility id:	004		
Facility name:	WELL 4		
Facility type:	Well	Treatment process:	sedimentation
Treatment objective:	particulate removal		
Facility id:	101		
Facility name:	FILTER PLANT		
Facility type:	Sampling_station	Treatment process:	sedimentation
Treatment objective:	particulate removal		
Facility id:	102		
Facility name:	WELL 1		
Facility type:	Sampling_station	Treatment process:	sedimentation
Treatment objective:	particulate removal		
Facility id:	001		
Facility name:	SCHUYLKILL RIVER		
Facility type:	Intake	Treatment process:	filtration, rapid sand
Treatment objective:	particulate removal		
Facility id:	002		
Facility name:	WELL ONE		
Facility type:	Well	Treatment process:	filtration, rapid sand
Treatment objective:	particulate removal		
Facility id:	003		
Facility name:	WELL 3		
Facility type:	Well	Treatment process:	filtration, rapid sand
Treatment objective:	particulate removal		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Facility id:	004		
Facility name:	WELL 4		
Facility type:	Well	Treatment process:	filtration, rapid sand
Treatment objective:	particulate removal		
Facility id:	101		
Facility name:	FILTER PLANT		
Facility type:	Sampling_station	Treatment process:	filtration, rapid sand
Treatment objective:	particulate removal		
Facility id:	102		
Facility name:	WELL 1		
Facility type:	Sampling_station	Treatment process:	filtration, rapid sand
Treatment objective:	particulate removal		
Facility id:	103		
Facility name:	WELL #3		
Facility type:	Sampling_station	Treatment process:	filtration, rapid sand
Treatment objective:	particulate removal		
Facility id:	104		
Facility name:	WELL #4		
Facility type:	Sampling_station	Treatment process:	filtration, rapid sand
Treatment objective:	particulate removal		
Facility id:	300		
Facility name:	WATER PLANT		
Facility type:	Treatment_plant	Treatment process:	filtration, rapid sand
Treatment objective:	particulate removal		
Facility id:	301		
Facility name:	WELL 1		
Facility type:	Treatment_plant	Treatment process:	filtration, rapid sand
Treatment objective:	particulate removal		
Facility id:	302		
Facility name:	WELL 3		
Facility type:	Treatment_plant	Treatment process:	filtration, rapid sand
Treatment objective:	particulate removal		
Facility id:	303		
Facility name:	WELL 4		
Facility type:	Treatment_plant	Treatment process:	filtration, rapid sand
Treatment objective:	particulate removal		
Facility id:	001		
Facility name:	SCHUYLKILL RIVER		
Facility type:	Intake	Treatment process:	algae control
Treatment objective:	organics removal		
Facility id:	002		
Facility name:	WELL ONE		
Facility type:	Well	Treatment process:	algae control
Treatment objective:	organics removal		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Facility id:	003		
Facility name:	WELL 3		
Facility type:	Well	Treatment process:	algae control
Treatment objective:	organics removal		

PWS ID:	PA1150166		
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	CITIZENS UTILITIES HOME WATER SHADY LANE SPRING CITY, PA 19475		

Apts 110, 112 - (w/ temp.)

Addressee / Facility:	Mailing CITIZENS UTILITIES HOME WATER ALBERT WYDA 135 NORTH FORTH AVENUE ROYERSFORD, PA 19468

Facility Latitude:	40 10 31.0000	Facility Longitude:	75 31 26.0000
Facility Latitude:	40 11 41.0000	Facility Longitude:	75 34 37.0000
Facility Latitude:	40 10 34.0000	Facility Longitude:	75 34 4.0000
Facility Latitude:	40 10 56.0000	Facility Longitude:	75 31 41.0000
City Served:	Not Reported		
Treatment Class:	Treated	Population:	18000

PWS currently has or had major violation(s) or enforcement: YES

VIOLATIONS INFORMATION:

Violation ID:	9318679	Source ID:	102	PWS Phone:	Not Reported
Vio. beginning Date:	04/01/93	Vio. end Date:	06/30/93	Vio. Period:	003 Months
Num required Samples:	000	Number of Samples Taken:		000	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Regular				
Contaminant:	NITRATE				
Vio. Awareness Date:	120893				

Violation ID:	9318680	Source ID:	103	PWS Phone:	Not Reported
Vio. beginning Date:	04/01/93	Vio. end Date:	06/30/93	Vio. Period:	003 Months
Num required Samples:	000	Number of Samples Taken:		000	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Regular				
Contaminant:	NITRATE				
Vio. Awareness Date:	120893				

Violation ID:	9319062	Source ID:	101	PWS Phone:	Not Reported
Vio. beginning Date:	07/01/93	Vio. end Date:	09/30/93	Vio. Period:	003 Months
Num required Samples:	000	Number of Samples Taken:		000	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Regular				
Contaminant:	NITRATE				
Vio. Awareness Date:	121393				

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Violation ID:	9319063	Source ID:	102	PWS Phone:	Not Reported
Vio. beginning Date:	07/01/93	Vio. end Date:	09/30/93	Vio. Period:	003 Months
Num required Samples:	000	Number of Samples Taken:		000	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Regular				
Contaminant:	NITRATE				
Vio. Awareness Date:	121393				

Violation ID:	9319064	Source ID:	103	PWS Phone:	Not Reported
Vio. beginning Date:	07/01/93	Vio. end Date:	09/30/93	Vio. Period:	003 Months
Num required Samples:	000	Number of Samples Taken:		000	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Regular				
Contaminant:	NITRATE				
Vio. Awareness Date:	121393				

Violation ID:	9319065	Source ID:	104	PWS Phone:	Not Reported
Vio. beginning Date:	07/01/93	Vio. end Date:	09/30/93	Vio. Period:	003 Months
Num required Samples:	000	Number of Samples Taken:		000	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Regular				
Contaminant:	NITRATE				
Vio. Awareness Date:	121393				

ENFORCEMENT INFORMATION:

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	00V0001	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	7/1/2000 0:00:00		
Complperen:	7/27/2000 0:00:00	Enfdate:	7/27/2000 0:00:00
Enf action:	Fed Compliance Achieved		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0521569	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	1/1/2005 0:00:00		
Complperen:	1/31/2005 0:00:00	Enfdate:	4/18/2005 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0521569	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	1/1/2005 0:00:00		
Complperen:	1/31/2005 0:00:00	Enfdate:	4/18/2005 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0614105	Contaminant:	GROSS BETA PARTICLE ACTIVITY
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	2/23/2006 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0614105	Contaminant:	GROSS BETA PARTICLE ACTIVITY
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	5/25/2006 0:00:00
Enf action:	State Consent Decree/Judgement		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0614105	Contaminant:	GROSS BETA PARTICLE ACTIVITY
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	5/25/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0614106	Contaminant:	GROSS BETA PARTICLE ACTIVITY
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	2/23/2006 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0614106	Contaminant:	GROSS BETA PARTICLE ACTIVITY
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	5/25/2006 0:00:00
Enf action:	State Consent Decree/Judgement		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0614106	Contaminant:	GROSS BETA PARTICLE ACTIVITY
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	5/25/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

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Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0614107	Contaminant:	GROSS BETA PARTICLE ACTIVITY
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	2/23/2006 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0614107	Contaminant:	GROSS BETA PARTICLE ACTIVITY
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	5/25/2006 0:00:00
Enf action:	State Consent Decree/Judgement		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0614107	Contaminant:	GROSS BETA PARTICLE ACTIVITY
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	5/25/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0614108	Contaminant:	GROSS BETA PARTICLE ACTIVITY
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	2/23/2006 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0614108	Contaminant:	GROSS BETA PARTICLE ACTIVITY
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	5/25/2006 0:00:00
Enf action:	State Consent Decree/Judgement		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0614108	Contaminant:	GROSS BETA PARTICLE ACTIVITY
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	5/25/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

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Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0700058	Contaminant:	7500
Viol. Type:	PN Violation for NPDWR Violation		
Complperbe:	12/11/2006 0:00:00		
Complperen:	12/12/2007 0:00:00	Enfdate:	12/12/2007 0:00:00
Enf action:	State Formal NOV Issued		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0700058	Contaminant:	7500
Viol. Type:	PN Violation for NPDWR Violation		
Complperbe:	12/11/2006 0:00:00		
Complperen:	12/12/2007 0:00:00	Enfdate:	2/26/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0700058	Contaminant:	7500
Viol. Type:	PN Violation for NPDWR Violation		
Complperbe:	12/11/2006 0:00:00		
Complperen:	12/12/2007 0:00:00	Enfdate:	2/26/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0700058	Contaminant:	7500
Viol. Type:	PN Violation for NPDWR Violation		
Complperbe:	12/11/2006 0:00:00		
Complperen:	12/12/2007 0:00:00	Enfdate:	12/12/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0700059	Contaminant:	SWTR
Viol. Type:	Treatment Technique (SWTR)		
Complperbe:	10/1/2006 0:00:00		
Complperen:	10/31/2006 0:00:00	Enfdate:	2/26/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0700059	Contaminant:	SWTR
Viol. Type:	Treatment Technique (SWTR)		
Complperbe:	10/1/2006 0:00:00		
Complperen:	10/31/2006 0:00:00	Enfdate:	2/26/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

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Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0721089	Contaminant:	CARBON, TOTAL-ORGANIC
Viol. Type:	Monitoring and Reporting Stage 1		
Complperbe:	4/1/2007 0:00:00		
Complperen:	6/30/2007 0:00:00	Enfdate:	8/29/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0721089	Contaminant:	CARBON, TOTAL-ORGANIC
Viol. Type:	Monitoring and Reporting Stage 1		
Complperbe:	4/1/2007 0:00:00		
Complperen:	6/30/2007 0:00:00	Enfdate:	8/29/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0816965	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	4/1/2008 0:00:00		
Complperen:	6/30/2008 0:00:00	Enfdate:	7/29/2008 0:00:00
Enf action:	State Formal NOV Issued		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0816965	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	4/1/2008 0:00:00		
Complperen:	6/30/2008 0:00:00	Enfdate:	7/29/2008 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0816965	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	4/1/2008 0:00:00		
Complperen:	6/30/2008 0:00:00	Enfdate:	8/20/2008 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0816966	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	4/1/2008 0:00:00		
Complperen:	6/30/2008 0:00:00	Enfdate:	7/29/2008 0:00:00
Enf action:	State Formal NOV Issued		
Violmeasur:	Not Reported		

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Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0816966	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	4/1/2008 0:00:00		
Complperen:	6/30/2008 0:00:00	Enfdate:	8/20/2008 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0816966	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	4/1/2008 0:00:00		
Complperen:	6/30/2008 0:00:00	Enfdate:	7/29/2008 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0819508	Contaminant:	7500
Viol. Type:	PN Violation for NPDWR Violation		
Complperbe:	7/11/2008 0:00:00		
Complperen:	8/20/2008 0:00:00	Enfdate:	8/20/2008 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	PA1150166
Pwsname:	PA AMERICAN WATER COMPANY		
Retpopsrvd:	44000	Pwstypecod:	C
Vioid:	0819508	Contaminant:	7500
Viol. Type:	PN Violation for NPDWR Violation		
Complperbe:	7/11/2008 0:00:00		
Complperen:	8/20/2008 0:00:00	Enfdate:	8/20/2008 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	7/1/2000 0:00:00 - 7/27/2000 0:00:00		
Violation ID:	00V0001		
Enforcement Date:	7/27/2000 0:00:00	Enf. Action:	Fed Compliance Achieved

System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	7/1/2000 0:00:00 - 7/27/2000 0:00:00		
Violation ID:	00V0001		
Enforcement Date:	7/27/2000 0:00:00	Enf. Action:	Fed Compliance Achieved

System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1/1/2005 0:00:00 - 1/31/2005 0:00:00		
Violation ID:	0521569		
Enforcement Date:	4/18/2005 0:00:00	Enf. Action:	State Compliance Achieved

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ENFORCEMENT INFORMATION:

System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1/1/2005 0:00:00 - 1/31/2005 0:00:00		
Violation ID:	0521569		
Enforcement Date:	4/18/2005 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1/1/2005 0:00:00 - 1/31/2005 0:00:00		
Violation ID:	0521569		
Enforcement Date:	4/18/2005 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1/1/2005 0:00:00 - 1/31/2005 0:00:00		
Violation ID:	0521569		
Enforcement Date:	4/18/2005 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614105		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614105		
Enforcement Date:	2/23/2006 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614105		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614105		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Consent Decree/Judgement
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614105		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Consent Decree/Judgement
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614105		
Enforcement Date:	2/23/2006 0:00:00	Enf. Action:	State Violation/Reminder Notice

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ENFORCEMENT INFORMATION:

System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614106		
Enforcement Date:	2/23/2006 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614106		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Consent Decree/Judgement
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614106		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614106		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Consent Decree/Judgement
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614106		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614106		
Enforcement Date:	2/23/2006 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614107		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614107		
Enforcement Date:	2/23/2006 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614107		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Consent Decree/Judgement

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ENFORCEMENT INFORMATION:

System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614107		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614107		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Consent Decree/Judgement
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614107		
Enforcement Date:	2/23/2006 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614108		
Enforcement Date:	2/23/2006 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614108		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614108		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Consent Decree/Judgement
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614108		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614108		
Enforcement Date:	2/23/2006 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	3		
Contaminant:	GROSS BETA PARTICLE ACTIVITY		
Compliance Period:	10/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	0614108		
Enforcement Date:	5/25/2006 0:00:00	Enf. Action:	State Consent Decree/Judgement

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ENFORCEMENT INFORMATION:

System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	PN Violation for NPDWR Violation		
Contaminant:	7500		
Compliance Period:	12/11/2006 0:00:00 - 2/26/2007 0:00:00		
Violation ID:	0700058		
Enforcement Date:	2/26/2007 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	PN Violation for NPDWR Violation		
Contaminant:	7500		
Compliance Period:	12/11/2006 0:00:00 - 2/26/2007 0:00:00		
Violation ID:	0700058		
Enforcement Date:	2/26/2007 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	Treatment Technique (SWTR)		
Contaminant:	SWTR		
Compliance Period:	10/1/2006 0:00:00 - 10/31/2006 0:00:00		
Violation ID:	0700059		
Enforcement Date:	2/26/2007 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	PA AMERICAN WATER COMPANY		
Violation Type:	Treatment Technique (SWTR)		
Contaminant:	SWTR		
Compliance Period:	10/1/2006 0:00:00 - 10/31/2006 0:00:00		
Violation ID:	0700059		
Enforcement Date:	2/26/2007 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	NITRATE		
Compliance Period:	1994-04-01 - 1994-06-30		
Violation ID:	9450296		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	NITRATE		
Compliance Period:	1994-04-01 - 1994-06-30		
Violation ID:	9450297		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	NITRATE		
Compliance Period:	1994-04-01 - 1994-06-30		
Violation ID:	9450298		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	ARSENIC		
Compliance Period:	1994-01-01 - 1994-12-31		
Violation ID:	9537974		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	BARIUM		
Compliance Period:	1994-01-01 - 1994-12-31		
Violation ID:	9537975		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

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ENFORCEMENT INFORMATION:

System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	CADMIUM		
Compliance Period:	1994-01-01 - 1994-12-31		
Violation ID:	9537976		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	CHROMIUM		
Compliance Period:	1994-01-01 - 1994-12-31		
Violation ID:	9537977		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	CYANIDE		
Compliance Period:	1994-01-01 - 1994-12-31		
Violation ID:	9537978		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	FLUORIDE		
Compliance Period:	1994-01-01 - 1994-12-31		
Violation ID:	9537979		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	MERCURY		
Compliance Period:	1994-01-01 - 1994-12-31		
Violation ID:	9537980		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	NICKEL		
Compliance Period:	1994-01-01 - 1994-12-31		
Violation ID:	9537981		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	SELENIUM		
Compliance Period:	1994-01-01 - 1994-12-31		
Violation ID:	9537982		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	ANTIMONY, TOTAL		
Compliance Period:	1994-01-01 - 1994-12-31		
Violation ID:	9537983		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	BERYLLIUM, TOTAL		
Compliance Period:	1994-01-01 - 1994-12-31		
Violation ID:	9537984		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

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ENFORCEMENT INFORMATION:

System Name:	CITIZENS UTILITIES HOME WA		
Violation Type:	Monitoring, Regular		
Contaminant:	THALLIUM, TOTAL		
Compliance Period:	1994-01-01 - 1994-12-31		
Violation ID:	9537985		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

CONTACT INFORMATION:

Name:	PA AMERICAN WATER COMPANY	Population:	44000
Contact:	JEFF CHAMBERLAIN	Phone:	Not Reported
Address:	4 WELLINGTON BLVD		
Address 2:	READING		
	PA, 19 610-9		

E12
SSE
1/4 - 1/2 Mile
Lower

PA WELLS **PASI30000056113**

Dep counter:	352	Siteid:	Not Reported
Transactio:	0	Local welln:	Not Reported
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	1
Topography:	Not Reported	Well depth:	220
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	Not Reported	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	Not Reported		
Source Depth Data:	Not Reported		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1742		
Longitude dd:	-75.5597		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1969	Pagwis id:	214899
Source site:	5	Local permit:	Not Reported
Latest owner:	213869	Driller sc:	0
Latest prod:	212624	Latest well:	216287
Site id:	PASI30000056113		

Agency Use Information:

Counterlink:	352	Transaction counter:	1
Agency use of sitecode:	OBSERVATION		
Agency usedate:	Not Reported		

Construction Information:

Recnum flag:	1	Counterlink:	352
Conscounter:	2637	Transaction counter:	1
Recnum consubrec:	1	Parent seqnum conssubrec:	Not Reported
Construction date:	01/01/1946		
Driller:	1		
Source Cons Data:	OTHER/UNKNOWN/UNSPECIFIED		
Method Cons:	CABLE TOOL		
Finish:	OPEN HOLE		
Drillers well id:	Not Reported		
Interimwell id:	Not Reported	Abandonmentreasoncode:	Not Reported
Construction code:	Not Reported	Original driller:	Not Reported
Original driller name:	Not Reported		

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Geohydrologic Information:

Counterlink:	352	Transaction counter:	1
Seqnum geohsubrec:	1	Parent seqnum aqfrsubrec:	1
Aapg code:	374BSPG	Top of interval:	Not Reported
Lithology:	LIMESTONE		
Contributing Unit:	PRIMARY		
Bottom of interval:	Not Reported		

Site Water Use Information:

Counterlink:	352	Transaction counter:	1
Site Use:	DESTROYED		
Water Use:	UNUSED		
Date of use:	Not Reported	Note:	Not Reported
Site waterid:	352		

Production Information:

Counterlink:	352	Transaction counter:	1
Prod seqnum:	1		
Discharge Type:	PUMPED		
Data Source:	Not Reported		
Discharge Meas Method:	Not Reported		
Discharge:	190	Swl:	8
W L Data Source:	S		
W L Meas Method:	REPORTED, METHOD NOT KNOWN		
Prodwl:	Not Reported	Drawdown:	Not Reported
Speccap:	Not Reported	Test length:	24
Site Status W L Meas:	Not Reported		
Date discharged:	02/01/1946		
Conslink:	Not Reported	Production id:	1804

Owner Information:

Counterlink:	352	Transaction counter:	1
Seqnum owner subrec:	1	Owner:	B & J SAYLOR FOODS C
Zipcode:	Not Reported	Owner firstname:	Not Reported
Date ownership:	01/01/1946	Conslink:	2637
Owner id:	2143		

F13
NNE
1/4 - 1/2 Mile
Lower

PA WELLS **PASI30000057719**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0576
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	98
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1838888889		
Longitude dd:	-75.5611111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	41
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103329
Source site:	2	Local permit:	Not Reported
Latest owner:	102615	Driller sc:	0
Latest prod:	103858	Latest well:	105582
Site id:	PASI30000057719		

F14
NNE
1/4 - 1/2 Mile
Lower

PA WELLS **SPAW0058765**

Well ID:	X 0576		
Owner's Name:	E DEMUTI,JR	County	CHESTER
Latitude:	401102	Longitude:	753340
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	98	Finish:	OTHER
Casing 1:	41	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	12	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	Not Reported
Bedrock:	41	Driller:	0072
Water Bearing Zone 1:	72	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

G15
NW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40001011767**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401055075340701		
Monloc name:	CH 3292		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1820458
Longitude:	-75.5682438	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	19460823	Welldepth:	250
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1946-08-23	20	

G16
NW
1/4 - 1/2 Mile
Higher

PA WELLS **PASI30000057333**

Dep counter:	0	Siteid:	401055075340701
Transactio:	1	Local welln:	CH 3292
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	UNKNOWN	Well depth:	250
Elevation:	0		
Elev method:	UNKNOWN		
Accuracy of elev:	Not Reported	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/26/1977
Date updated:	03/03/1990		
Data Reliability:	NOT FLD CHECKED, RPRTING AGENCY CONSIDERS IT OK (DEP WSM, WWI web)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1819444444		
Longitude dd:	-75.5686111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	08/23/1946	Pagwis id:	12168
Source site:	1	Local permit:	Not Reported
Latest owner:	12233	Driller sc:	0
Latest prod:	8722	Latest well:	12168
Site id:	PASI30000057333		

E17
SSE
1/4 - 1/2 Mile
Lower

PA WELLS **SPAW0058756**

Well ID:	X 0249		
Owner's Name:	FRISCH JOHN	County	CHESTER
Latitude:	401026	Longitude:	753333
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	223	Finish:	OTHER
Casing 1:	31	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

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Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	7	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	5
Bedrock:	Not Reported	Driller:	0000
Water Bearing Zone 1:	182	Water Bearing Zone 2:	218
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

E18
SSE
1/4 - 1/2 Mile
Lower

PA WELLS **PASI30000056038**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0249
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	223
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1738888889		
Longitude dd:	-75.5591666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103320
Source site:	2	Local permit:	Not Reported
Latest owner:	102606	Driller sc:	0
Latest prod:	103849	Latest well:	105573
Site id:	PASI30000056038		

H19
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055561**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0233
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	98
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1708333333		
Longitude dd:	-75.5658333333		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103308
Source site:	2	Local permit:	Not Reported
Latest owner:	102594	Driller sc:	0
Latest prod:	103837	Latest well:	105561
Site id:	PASI30000055561		

H20
SSW
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058744**

Well ID:	X 0233		
Owner's Name:	JOHN FRANK INC	County	CHESTER
Latitude:	401015	Longitude:	753357
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	98	Finish:	OTHER
Casing 1:	49	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	20	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	7
Bedrock:	Not Reported	Driller:	0072
Water Bearing Zone 1:	78	Water Bearing Zone 2:	91
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

H21
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011329**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401015075335901		
Monloc name:	CH 3290		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1709352
Longitude:	-75.5660227	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	228
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	1974	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1987-01-18	18.5	

H22
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055560**

Dep counter:	0	Siteid:	401015075335901
Transactio:	1	Local welln:	CH 3290
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	0
Elevation:	230		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	07/05/1988
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1708333333		
Longitude dd:	-75.5663888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1974	Pagwis id:	12102
Source site:	1	Local permit:	Not Reported
Latest owner:	12167	Driller sc:	0
Latest prod:	35905	Latest well:	12102
Site id:	PASI30000055560		

23
NW
1/2 - 1 Mile
Higher

PA WELLS **PASI30000057982**

Dep counter:	0	Siteid:	410834080011301
Transactio:	1	Local welln:	MR 2105
County:	MERCER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	327CQSG
Topography:	HILLSIDE	Well depth:	80
Elevation:	1350		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	05030105
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	SANDY LAKE
Type of site:	WELL	Date created:	12/10/1976
Date updated:	04/18/1991		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	WORTH TWP.		

10/21/2014 1:17:11 PM

Latitude dd:	40.18528		
Longitude dd:	-75.57111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1947	Pagwis id:	39972
Source site:	1	Local permit:	Not Reported
Latest owner:	39654	Driller sc:	0
Latest prod:	0	Latest well:	39972
Site id:	PASI30000057982		

I24
South
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055375**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0239
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	Not Reported	Well depth:	123
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1697222222		
Longitude dd:	-75.5638888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	34
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103313
Source site:	2	Local permit:	Not Reported
Latest owner:	102599	Driller sc:	0
Latest prod:	103842	Latest well:	105566
Site id:	PASI30000055375		

I25
South
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058749**

Well ID:	X 0239		
Owner's Name:	JOHN FRANK INC	County	CHESTER
Latitude:	401011	Longitude:	753350
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	Not Reported
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	123	Finish:	OTHER
Casing 1:	38	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

10/21/2014 1:17:12 PM

Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	14	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	3
Bedrock:	34	Driller:	0072
Water Bearing Zone 1:	68	Water Bearing Zone 2:	97
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

J26
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40001012045**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401117075340101		
Monloc name:	CH 145		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1881567
Longitude:	-75.5665763	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	325
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1914	Welldepth:	404
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1946-10	175.00	

J27
NNW
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058362**

Dep counter:	0	Siteid:	401117075340101
Transactio:	1	Local welln:	CH 145
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLTOP	Well depth:	404
Elevation:	330		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		

10/21/2014 1:17:13 PM

Latitude dd:	40.1880555556		
Longitude dd:	-75.5669444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1914	Pagwis id:	12206
Source site:	1	Local permit:	Not Reported
Latest owner:	12270	Driller sc:	0
Latest prod:	8745	Latest well:	12206
Site id:	PASI30000058362		

K28
West
1/2 - 1 Mile
Higher

FED USGS **USGS40001011653**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401047075343501		
Monloc name:	CH 3233		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1798235
Longitude:	-75.5760223	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	290
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	19810201	Welldepth:	120
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1987-11-13	12.2	

Note: The site had been pumped recently.

K29
West
1/2 - 1 Mile
Higher

PA WELLS **PASI30000056944**

Dep counter:	0	Siteid:	401047075343501
Transactio:	1	Local welln:	CH 3233
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	120
Elevation:	300		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	20	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	01/22/1988
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1797222222		
Longitude dd:	-75.5763888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	02/01/1981	Pagwis id:	12151
Source site:	1	Local permit:	Not Reported
Latest owner:	12216	Driller sc:	0
Latest prod:	35933	Latest well:	12151
Site id:	PASI30000056944		

L30
South
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055160**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0240
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	123
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1683333333		
Longitude dd:	-75.5611111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	42
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103314
Source site:	2	Local permit:	Not Reported
Latest owner:	102600	Driller sc:	0
Latest prod:	103843	Latest well:	105567
Site id:	PASI30000055160		

L31
South
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058750**

Well ID:	X 0240		
Owner's Name:	JOHN FRANK INC	County	CHESTER
Latitude:	401006	Longitude:	753340
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	123	Finish:	OTHER
Casing 1:	48	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

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Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	7	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	6
Bedrock:	42	Driller:	0072
Water Bearing Zone 1:	106	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

M32
SW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055697**

Dep counter:	0	Siteid:	401018075342401
Transactio:	1	Local welln:	CH 2356
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	140
Elevation:	260		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1716666667		
Longitude dd:	-75.5733333333		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	10/11/1974	Pagwis id:	12106
Source site:	1	Local permit:	Not Reported
Latest owner:	12171	Driller sc:	0
Latest prod:	8674	Latest well:	12106
Site id:	PASI30000055697		

M33
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011361**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401018075342401		
Monloc name:	CH 2356		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1717683
Longitude:	-75.5729675	Sourcemap scale:	24000

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Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	255
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19741011	Welldepth:	140
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1974-10-11	37.00	

N34
North
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058547**

Dep counter:	0	Siteid:	401122075335101
Transactio:	1	Local welln:	CH 147
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	804
Elevation:	310		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	06/28/1994		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1894444444		
Longitude dd:	-75.5641666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1914	Pagwis id:	12930
Source site:	1	Local permit:	Not Reported
Latest owner:	13035	Driller sc:	0
Latest prod:	36318	Latest well:	12930
Site id:	PASI30000058547		

N35
North
1/2 - 1 Mile
Higher

FED USGS **USGS40001012099**

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Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401122075335101		
Monloc name:	CH 147		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1895457
Longitude:	-75.5637982	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	310
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	804
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1948-06	101.00	

O36
SSW
1/2 - 1 Mile
Lower

PA WELLS **SPAW0057176**

Well ID:	X 0092		
Owner's Name:	LEINBACH C	County	CHESTER
Latitude:	401009	Longitude:	753409
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	95	Finish:	OTHER
Casing 1:	45	Casing1 Diameter(inches):	7
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	25	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	1
Bedrock:	41	Driller:	1014
Water Bearing Zone 1:	57	Water Bearing Zone 2:	72
Water Bearing Zone 3:	86	Lithology:	SANDSTONE
Municipality:	EAST COVENTRY	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

O37
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055287**

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Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0092
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	95
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST COVENTRY TWP.		
Latitude dd:	40.1691666667		
Longitude dd:	-75.5691666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	41
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	101740
Source site:	2	Local permit:	Not Reported
Latest owner:	101027	Driller sc:	0
Latest prod:	102276	Latest well:	104008
Site id:	PASI30000055287		

O38
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011271**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401009075341001		
Monloc name:	CH 2222		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1692685
Longitude:	-75.5690786	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	230
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19670718	Welldepth:	89
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
O39 **SSW** **1/2 - 1 Mile** **Lower**	**PA WELLS**	**PASI30000055286**

Dep counter:	0	Siteid:	401009075341001
Transactio:	1	Local welln:	CH 2222
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	89
Elevation:	230		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	10/04/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1691666667		
Longitude dd:	-75.5694444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	07/18/1967	Pagwis id:	12098
Source site:	1	Local permit:	Not Reported
Latest owner:	12163	Driller sc:	0
Latest prod:	8666	Latest well:	12098
Site id:	PASI30000055286		

	Database	EDR ID Number
P40 **NNW** **1/2 - 1 Mile** **Higher**	**PA WELLS**	**PASI30000058546**

Dep counter:	0	Siteid:	401122075335901
Transactio:	1	Local welln:	CH 143
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLTOP	Well depth:	443
Elevation:	320		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	12/06/1976
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1894444444		
Longitude dd:	-75.5663888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1914	Pagwis id:	12217
Source site:	1	Local permit:	Not Reported
Latest owner:	12281	Driller sc:	0
Latest prod:	8752	Latest well:	12217

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Site id: PASI30000058546

P41
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40001012100**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401122075335901		
Monloc name:	CH 143		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1895456
Longitude:	-75.5660206	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	320
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1914	Welldepth:	443
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1948-10-09	171.00	

Q42
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40001012068**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401119075341001		
Monloc name:	CH 146		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1887122
Longitude:	-75.5690764	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	345
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		

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Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	400
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

Q43
NNW
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058439**

Dep counter:	0	Siteid:	401119075341001
Transactio:	1	Local welln:	CH 146
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLTOP	Well depth:	400
Elevation:	350		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	12/06/1976
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1886111111		
Longitude dd:	-75.5694444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1973	Pagwis id:	12213
Source site:	1	Local permit:	Not Reported
Latest owner:	12277	Driller sc:	0
Latest prod:	0	Latest well:	12213
Site id:	PASI30000058439		

M44
SW
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058815**

Well ID:	X 2638		
Owner's Name:	DOLNY RICHARD	County	CHESTER
Latitude:	401017	Longitude:	753425
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	Not Reported
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	140	Finish:	OPEN HOLE
Casing 1:	55	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-00
Static Water Level:	37	Production WL:	Not Reported
Yield (gpm):	100	Yield Measurement Method:	5
Drawdown:	103	Test Time:	Not Reported
Bedrock:	7	Driller:	0188
Water Bearing Zone 1:	60	Water Bearing Zone 2:	95
Water Bearing Zone 3:	110	Lithology:	Not Reported
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

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Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
M45 **SW** **1/2 - 1 Mile** **Lower**	**PA WELLS**	**PASI30000055659**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 2638
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	Not Reported	Well depth:	140
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1713888889		
Longitude dd:	-75.5736111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	7
Bedrock not:	0	Saltwaterz:	0
Date drilled:	06/01/1986	Pagwis id:	103379
Source site:	2	Local permit:	Not Reported
Latest owner:	102665	Driller sc:	0
Latest prod:	103908	Latest well:	105632
Site id:	PASI30000055659		

	Database	EDR ID Number
O46 **SSW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40001011239**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401007075341201		
Monloc name:	CH 3663		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.168713
Longitude:	-75.5696343	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	218
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	19880808	Welldepth:	300
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1989-07-18	0	

O47
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055208**

Dep counter:	0	Siteid:	401007075341201
Transactio:	1	Local welln:	CH 3663
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	300
Elevation:	220		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	5	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/01/1994
Date updated:	02/01/1994		
Data Reliability:	NOT FLD CHECKED, RPRTING AGENCY CONSIDERS IT OK (DEP WSM, WWI web)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1686111111		
Longitude dd:	-75.57		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	08/08/1988	Pagwis id:	12613
Source site:	1	Local permit:	Not Reported
Latest owner:	12682	Driller sc:	0
Latest prod:	8989	Latest well:	12613
Site id:	PASI30000055208		

N48
North
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058679**

Dep counter:	425	Siteid:	Not Reported
Transactio:	0	Local welln:	Not Reported
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	1
Topography:	Not Reported	Well depth:	804
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	Not Reported	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	08/08/1986
Date updated:	01/28/1993		
Data Reliability:	Not Reported		
Source Depth Data:	Not Reported		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1903		
Longitude dd:	-75.5642		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1940	Pagwis id:	214937
Source site:	5	Local permit:	Not Reported
Latest owner:	213907	Driller sc:	0
Latest prod:	212661	Latest well:	216325
Site id:	PASI30000058679		

Agency Use Information:

Counterlink:	425	Transaction counter:	1
Agency use of sitecode:	OBSERVATION		
Agency usedate:	Not Reported		

Construction Information:

Recnum flag:	1	Counterlink:	425
Conscounter:	2707	Transaction counter:	1
Recnum consubrec:	1	Parent seqnum conssubrec:	Not Reported
Construction date:	Not Reported		
Driller:	1		
Source Cons Data:	OTHER/UNKNOWN/UNSPECIFIED		
Method Cons:	CABLE TOOL		
Finish:	OPEN HOLE		
Drillers well id:	Not Reported		
Interimwell id:	Not Reported	Abandonmentreasoncode:	Not Reported
Construction code:	Not Reported	Original driller:	Not Reported
Original driller name:	Not Reported		

Geohydrologic Information:

Counterlink:	425	Transaction counter:	1
Seqnum geohsubrec:	1	Parent seqnum aqfrsubrec:	1
Aapg code:	374LSVL	Top of interval:	Not Reported
Lithology:	DOLOMITE		
Contributing Unit:	PRIMARY		
Bottom of interval:	Not Reported		

Site Water Use Information:

Counterlink:	425	Transaction counter:	1
Site Use:	WITHDRAWAL		
Water Use:	RECREATION		
Date of use:	Not Reported	Note:	Not Reported
Site waterid:	425		

Production Information:

Counterlink:	425	Transaction counter:	1
Prod seqnum:	1		
Discharge Type:	PUMPED		
Data Source:	Not Reported		
Discharge Meas Method:	Not Reported		
Discharge:	89	Swl:	10
W L Data Source:	S		
W L Meas Method:	REPORTED, METHOD NOT KNOWN		
Prodwl:	152	Drawdown:	142

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Speccap:	.629999995	Test length:	24
Site Status W L Meas:	Not Reported		
Date discharged:	02/01/1965		
Conslink:	Not Reported	Production id:	1863
Owner Information:			
Counterlink:	425	Transaction counter:	1
Seqnum owner subrec:	1	Owner:	MOUNT PENN BOROUGH M
Zipcode:	Not Reported	Owner firstname:	Not Reported
Date ownership:	01/01/1965	Conslink:	2707
Owner id:	2216		

R49
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011914**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401107075343201		
Monloc name:	CH 4769		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1853788
Longitude:	-75.5751883	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	247
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	19940630	Welldepth:	237
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1995-08-16	60.05	

Note: The site had been pumped recently.

R50
NW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057978**

10/21/2014 1:17:30 PM

Dep counter:	0	Siteid:	401107075343201
Transactio:	3	Local wellN:	CH 4769
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	Not Reported	Well depth:	237
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	02040203
Latlong acc:	Not Reported	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	09/06/1995
Date updated:	12/17/1997		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1852777778		
Longitude dd:	-75.5755555556		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	06/30/1994	Pagwis id:	43463
Source site:	1	Local permit:	Not Reported
Latest owner:	43135	Driller sc:	0
Latest prod:	0	Latest well:	43463
Site id:	PASI30000057978		

O51
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011232**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401006075341101		
Monloc name:	CH 3664		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1684352
Longitude:	-75.5693565	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	218
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	198708	Welldepth:	205
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
O52 **SSW** **1/2 - 1 Mile** **Lower**	**PA WELLS**	**PASI30000055159**

Dep counter:	0	Siteid:	401006075341101
Transactio:	1	Local welln:	CH 3664
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	205
Elevation:	220		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	5	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	01/10/1990
Date updated:	01/10/1990		
Data Reliability:	NOT FLD CHECKED, RPRTING AGENCY CONSIDERS IT OK (DEP WSM, WWI web)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1683333333		
Longitude dd:	-75.5697222222		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	08/01/1987	Pagwis id:	12092
Source site:	1	Local permit:	Not Reported
Latest owner:	12157	Driller sc:	0
Latest prod:	0	Latest well:	12092
Site id:	PASI30000055159		

	Database	EDR ID Number
S53 **NNW** **1/2 - 1 Mile** **Higher**	**PA WELLS**	**PASI30000058629**

Dep counter:	424	Siteid:	Not Reported
Transactio:	0	Local welln:	Not Reported
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	1
Topography:	Not Reported	Well depth:	400
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	Not Reported	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	06/29/1988
Date updated:	03/03/1990		
Data Reliability:	Not Reported		
Source Depth Data:	Not Reported		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.19		
Longitude dd:	-75.5678		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	09/01/1987	Pagwis id:	214936
Source site:	5	Local permit:	Not Reported
Latest owner:	213906	Driller sc:	0
Latest prod:	212660	Latest well:	216324

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Site id: PASI30000058629

Agency Use Information:

Counterlink:	424	Transaction counter:	1
Agency use of sitecode:	OBSERVATION		
Agency usedate:	Not Reported		

Construction Information:

Recnum flag:	1	Counterlink:	424
Conscounter:	2706	Transaction counter:	1
Recnum consubrec:	1	Parent seqnum conssubrec:	Not Reported
Construction date:	03/26/1966		
Driller:	0561		
Source Cons Data:	OTHER/UNKNOWN/UNSPECIFIED		
Method Cons:	CABLE TOOL		
Finish:	PERFORATED OR SLOTTED		
Drillers well id:	Not Reported		
Interimwell id:	Not Reported	Abandonmentreasoncode:	Not Reported
Construction code:	Not Reported	Original driller:	Not Reported
Original driller name:	Not Reported		

Geohydrologic Information:

Counterlink:	424	Transaction counter:	1
Seqnum geohsubrec:	1	Parent seqnum aqfrsubrec:	1
Aapg code:	374LSVL	Top of interval:	Not Reported
Lithology:	DOLOMITE		
Contributing Unit:	PRIMARY		
Bottom of interval:	Not Reported		

Site Water Use Information:

Counterlink:	424	Transaction counter:	1
Site Use:	WITHDRAWAL		
Water Use:	PUBLIC SUPPLY		
Date of use:	Not Reported	Note:	Not Reported
Site waterid:	424		

Production Information:

Counterlink:	424	Transaction counter:	1
Prod seqnum:	1		
Discharge Type:	PUMPED		
Data Source:	Not Reported		
Discharge Meas Method:	Not Reported		
Discharge:	300	Swl:	35
W L Data Source:	S		
W L Meas Method:	REPORTED, METHOD NOT KNOWN		
Prodwl:	85	Drawdown:	50
Speccap:	6	Test length:	24
Site Status W L Meas:	Not Reported		
Date discharged:	03/26/1966		
Conslink:	2706	Production id:	1862

Owner Information:

Counterlink:	424	Transaction counter:	1
Seqnum owner subrec:	1	Owner:	MOUNT PENN BOROUGH MUNICIPAL AUTH
Zipcode:	Not Reported	Owner firstname:	Not Reported
Date ownership:	12/31/1966	Conslink:	2706
Owner id:	2215		

Other Id Information:			
Counterlink:	424	Transaction counter:	1
Seqnum otherid subrec:	2	Other identifier:	D-66-124 CP
Other id assignor:	DRBC		
Other Id Information:			
Counterlink:	424	Transaction counter:	1
Seqnum otherid subrec:	3	Other identifier:	6
Other id assignor:	OWNER PA		

T54
SW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055242**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local wellN:	5589N
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	150
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1688888889		
Longitude dd:	-75.5716666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	04/24/1978	Pagwis id:	103231
Source site:	2	Local permit:	Not Reported
Latest owner:	102517	Driller sc:	0
Latest prod:	103760	Latest well:	105485
Site id:	PASI30000055242		

T55
SW
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058667**

Well ID:	5589N		
Owner's Name:	WALLEIGH C	County	CHESTER
Latitude:	401008	Longitude:	753418
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	02040203	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	150	Finish:	Not Reported
Casing 1:	53	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

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Grouted:	Not Reported	Date Drilled:	4-24-78
Static Water Level:	Not Reported	Production WL:	58
Yield (gpm):	12	Yield Measurement Method:	V
Drawdown:	Not Reported	Test Time:	1.75
Bedrock:	Not Reported	Driller:	72
Water Bearing Zone 1:	86	Water Bearing Zone 2:	138
Water Bearing Zone 3:	Not Reported	Lithology:	SANDSTONE
Municipality:	EAST VINCENT	Remark:	RT=DARK RED SS
Aquifer:	BRUNSWICK FORMATION		

S56
NNW
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058671**

Dep counter:	0	Siteid:	401125075340501
Transactio:	1	Local welln:	CH 144
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLTOP	Well depth:	421
Elevation:	320		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1902777778		
Longitude dd:	-75.5680555556		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1914	Pagwis id:	12223
Source site:	1	Local permit:	Not Reported
Latest owner:	12287	Driller sc:	0
Latest prod:	8757	Latest well:	12223
Site id:	PASI30000058671		

S57
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40001012126**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401125075340501		
Monloc name:	CH 144		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1903789
Longitude:	-75.5676873	Sourcemap scale:	24000

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Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	320
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1914	Welldepth:	421
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1956-01-23	115.00	

U58
East
1/2 - 1 Mile
Lower

FED USGS **USGS40001011720**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401052075325001		
Monloc name:	CH 150		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1812131
Longitude:	-75.5468537	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	100
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	1954	Welldepth:	260
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1956-05-01	30.00	

U59
East
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057194**

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Dep counter:	0	Siteid:	401052075325001
Transactio:	1	Local welln:	CH 150
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	260
Elevation:	100		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1811111111		
Longitude dd:	-75.5472222222		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1954	Pagwis id:	12161
Source site:	1	Local permit:	Not Reported
Latest owner:	12226	Driller sc:	0
Latest prod:	8716	Latest well:	12161
Site id:	PASI30000057194		

U60
East
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057088**

Dep counter:	463	Siteid:	Not Reported
Transactio:	0	Local welln:	Not Reported
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	1
Topography:	Not Reported	Well depth:	0
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	Not Reported	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	12/06/1976
Date updated:	06/28/1994		
Data Reliability:	Not Reported		
Source Depth Data:	Not Reported		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1808		
Longitude dd:	-75.5469		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	10/07/1996	Pagwis id:	214968
Source site:	5	Local permit:	Not Reported
Latest owner:	213938	Driller sc:	0
Latest prod:	212691	Latest well:	216356

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Site id:	PASI30000057088		
Agency Use Information:			
Counterlink:	463	Transaction counter:	1
Agency use of sitecode:	OBSERVATION		
Agency usedate:	Not Reported		
Construction Information:			
Recnum flag:	1	Counterlink:	463
Conscounter:	2744	Transaction counter:	1
Recnum consubrec:	1	Parent seqnum conssubrec:	Not Reported
Construction date:	01/01/1967		
Driller:	1		
Source Cons Data:	OTHER/UNKNOWN/UNSPECIFIED		
Method Cons:	AIR ROTARY		
Finish:	OPEN HOLE		
Drillers well id:	Not Reported		
Interimwell id:	Not Reported	Abandonmentreasoncode:	Not Reported
Construction code:	Not Reported	Original driller:	Not Reported
Original driller name:	Not Reported		
Geohydrologic Information:			
Counterlink:	463	Transaction counter:	1
Seqnum geohsubrec:	1	Parent seqnum aqfrsubrec:	1
Aapg code:	374LSVL	Top of interval:	Not Reported
Lithology:	DOLOMITE		
Contributing Unit:	PRIMARY		
Bottom of interval:	Not Reported		
Site Water Use Information:			
Counterlink:	463	Transaction counter:	1
Site Use:	WITHDRAWAL		
Water Use:	PUBLIC SUPPLY		
Date of use:	Not Reported	Note:	Not Reported
Site waterid:	463		
Production Information:			
Counterlink:	463	Transaction counter:	1
Prod seqnum:	1		
Discharge Type:	PUMPED		
Data Source:	Not Reported		
Discharge Meas Method:	Not Reported		
Discharge:	1000	Swl:	63
W L Data Source:	S		
W L Meas Method:	REPORTED, METHOD NOT KNOWN		
Prodwl:	85	Drawdown:	22
Speccap:	45.4000015	Test length:	43
Site Status W L Meas:	Not Reported		
Date discharged:	01/01/1978		
Conslink:	Not Reported	Production id:	1892
Owner Information:			
Counterlink:	463	Transaction counter:	1
Seqnum owner subrec:	1	Owner:	MOUNT PENN BOROUGH M
Zipcode:	Not Reported	Owner firstname:	Not Reported
Date ownership:	01/01/1967	Conslink:	2744
Owner id:	2254		

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Map ID / Direction / Distance / Elevation		Database	EDR ID Number
V61 **WNW** **1/2 - 1 Mile** **Lower**		**PA WELLS**	**PASI30000057622**

Dep counter:	0	Siteid:	401100075344301
Transactio:	1	Local welln:	CH 1563
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	115
Elevation:	260		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	10/04/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1833333333		
Longitude dd:	-75.5786111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	06/22/1967	Pagwis id:	12178
Source site:	1	Local permit:	Not Reported
Latest owner:	12242	Driller sc:	0
Latest prod:	8728	Latest well:	12178
Site id:	PASI30000057622		

V62 **WNW** **1/2 - 1 Mile** **Lower**		**FED USGS**	**USGS40001011831**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401100075344301		
Monloc name:	CH 1563		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1834344
Longitude:	-75.5782443	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	260
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		

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Aquifer type:	Not Reported		
Construction date:	19670622	Welldepth:	115
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

U63
ENE
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057288**

Dep counter:	0	Siteid:	401054075324801
Transactio:	1	Local welln:	CH 148
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	180
Elevation:	100		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	10/04/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1816666667		
Longitude dd:	-75.5466666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1905	Pagwis id:	12164
Source site:	1	Local permit:	Not Reported
Latest owner:	12229	Driller sc:	0
Latest prod:	8719	Latest well:	12164
Site id:	PASI30000057288		

U64
ENE
1/2 - 1 Mile
Lower

FED USGS **USGS40001011750**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401054075324801		
Monloc name:	CH 148		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1817686
Longitude:	-75.546298	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	100
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	1905	Welldepth:	180
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

U65
East
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057137**

Dep counter:	0	Siteid:	401051075324701
Transactio:	1	Local welln:	CH 149
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	230
Elevation:	100		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1808333333		
Longitude dd:	-75.5463888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1949	Pagwis id:	12160
Source site:	1	Local permit:	Not Reported
Latest owner:	12225	Driller sc:	0
Latest prod:	8715	Latest well:	12160
Site id:	PASI30000057137		

U66
East
1/2 - 1 Mile
Lower

FED USGS **USGS40001011709**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401051075324701		
Monloc name:	CH 149		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1809353
Longitude:	-75.5460203	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	100
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	1949	Welldepth:	230
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1956-05-01	30.00	

W67
North
1/2 - 1 Mile
Lower

FED USGS **USGS40001012188**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401130075335001		
Monloc name:	CH 142		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1917678
Longitude:	-75.5635202	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	235
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	192803	Welldepth:	529
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1954	190.00	

W68
North
1/2 - 1 Mile
Lower

PA WELLS **PASI30000058885**

Dep counter:	0	Siteid:	401130075335001
Transactio:	1	Local welln:	CH 142
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	529
Elevation:	240		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1916666667		
Longitude dd:	-75.5638888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	03/01/1928	Pagwis id:	12233
Source site:	1	Local permit:	Not Reported
Latest owner:	12297	Driller sc:	0
Latest prod:	8763	Latest well:	12233
Site id:	PASI30000058885		

X69
SSE
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055003**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0231
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	123
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1672222222		
Longitude dd:	-75.5544444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	46
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103307
Source site:	2	Local permit:	Not Reported
Latest owner:	102593	Driller sc:	0
Latest prod:	103836	Latest well:	105560
Site id:	PASI30000055003		

X70
SSE
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058743**

Well ID:	X 0231		
Owner's Name:	VAUGHAN CHAS	County	CHESTER
Latitude:	401002	Longitude:	753316
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	123	Finish:	OTHER
Casing 1:	48	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

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Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	22	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	Not Reported
Bedrock:	46	Driller:	0072
Water Bearing Zone 1:	97	Water Bearing Zone 2:	118
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

Y71
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000054895**

Dep counter:	0	Siteid:	400959075341001
Transactio:	1	Local welln:	CH 3174
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	205
Elevation:	230		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/06/1987
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	WELL OWNER		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1663888889		
Longitude dd:	-75.5694444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	06/02/1978	Pagwis id:	12082
Source site:	1	Local permit:	Not Reported
Latest owner:	12145	Driller sc:	0
Latest prod:	35894	Latest well:	12082
Site id:	PASI30000054895		

Y72
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011160**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-400959075341001		
Monloc name:	CH 3174		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1664908
Longitude:	-75.569079	Sourcemap scale:	24000

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Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	230
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	205
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1987-10-02	9.0	

Z73
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40001012176**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401129075340901		
Monloc name:	CH 181		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1914899
Longitude:	-75.5687983	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	275
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	19630524	Welldepth:	700
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1963-05-24	132.00	

Z74
NNW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000058852**

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Dep counter:	0	Siteid:	401129075340901
Transactio:	1	Local welln:	CH 181
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	700
Elevation:	280		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	06/28/1994		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1913888889		
Longitude dd:	-75.5691666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	05/24/1963	Pagwis id:	12931
Source site:	1	Local permit:	Not Reported
Latest owner:	13036	Driller sc:	0
Latest prod:	9195	Latest well:	12931
Site id:	PASI30000058852		

AA75
North
1/2 - 1 Mile
Lower

PA WELLS **PASI30000058983**

Dep counter:	0	Siteid:	401133075334301
Transactio:	1	Local welln:	CH 141
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	327
Elevation:	250		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1925		
Longitude dd:	-75.5619444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1913	Pagwis id:	12238
Source site:	1	Local permit:	Not Reported
Latest owner:	12302	Driller sc:	0
Latest prod:	8768	Latest well:	12238

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Site id: PASI30000058983

AA76
North
1/2 - 1 Mile
Lower

FED USGS **USGS40001012221**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401133075334301		
Monloc name:	CH 141		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1926012
Longitude:	-75.5615755	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	250
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	1913	Welldepth:	327
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1948	52.00	

AB77
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40001012116**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401124075342501		
Monloc name:	CH 3163		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1901009
Longitude:	-75.5732432	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	225
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	198709	Welldepth:	122
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1988-01-21	54.12	

AB78
NW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000058628**

Dep counter:	0	Siteid:	401124075342501
Transactio:	1	Local welln:	CH 3163
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	122
Elevation:	220		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	20	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	06/29/1988
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	WELL OWNER		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.19		
Longitude dd:	-75.5736111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	09/01/1987	Pagwis id:	12220
Source site:	1	Local permit:	Not Reported
Latest owner:	12284	Driller sc:	0
Latest prod:	35975	Latest well:	12220
Site id:	PASI30000058628		

AC79
ESE
1/2 - 1 Mile
Lower

FED USGS **USGS40001011377**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401019075324801		
Monloc name:	CH 1562		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1720468
Longitude:	-75.5462991	Sourcemap scale:	24000

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Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	258
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19670717	Welldepth:	95
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AC80
ESE
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055731**

Dep counter:	0	Siteid:	401019075324801
Transactio:	1	Local welln:	CH 1562
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	95
Elevation:	260		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	10/04/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1719444444		
Longitude dd:	-75.5466666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	07/17/1967	Pagwis id:	12107
Source site:	1	Local permit:	Not Reported
Latest owner:	12172	Driller sc:	0
Latest prod:	8675	Latest well:	12107
Site id:	PASI30000055731		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: PA Radon

Radon Test Results

Zipcode	Num Tests	Min pCi/L	Max pCi/L	Avg pCi/L
19475	1030	0.1	187.3	6.9

EPA Region 3 Statistical Summary Readings for Zip Code: 19475

Number of sites tested: 248.

Maximum Radon Level: 93.4 pCi/L.
Minimum Radon Level: 0.4 pCi/L.

pCi/L <4	pCi/L 4-10	pCi/L 10-20	pCi/L 20-50	pCi/L 50-100	pCi/L >100
139 (56.05%)	68 (27.42%)	29 (11.69%)	5 (2.02%)	7 (2.82%)	0 (0.00%)

Federal EPA Radon Zone for CHESTER County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

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PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

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

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

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PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Pennsylvania Public Water Supply Wells
Source: Pennsylvania Department of Environmental Resources Bureau of Water Supply
Telephone: 717-787-5017

Pennsylvania Groundwater Information System
Source: Department of Conservation and Natural Resources
Telephone: 717-702-2045

OTHER STATE DATABASE INFORMATION

Pennsylvania Oil and Gas Locations
Source: Pennsylvania Department of Environmental Protection
Telephone: 814-863-0104
An Oil and Gas Location is a DEP primary facility type related to the Oil & Gas Program. The sub-facility types related to Oil and Gas that are included in this layer are:Land Application -- An area where drilling cuttings or waste are disposed by land application; Well-- A well associated with oil and/or gas production; Pit -- An approved pit that is used for storage of oil and gas well fluids.Some sub facility types are not included in this layer due to security policies.

RADON

State Database: PA Radon
Source: Department of Environmental Protection
Telephone: 717-783-3594
Radon Test Results Statistics by Zip Code

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

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APPENDIX D

SOIL BORING/MONITORING WELL LOGS

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-1

PROJECT nO: BLAIR-01	DATE: 6/4/13	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: KEYES well drilling	
PROJECT LOCATION: Former Blairs Auto, 3575 Schuylkill Road, Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10			0	no petroleum odor
20	- same lithology		0	no petroleum odor
30	competent shale bedrock at 33'		0	well consruction:
	end boring @ 35 feet.			35 feet total well depth surface flush manhole 4 inch diameter 10 feet solid casing 25 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-2

PROJECT nO: BLAIR-01	DATE: 6/4/13	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: KEYES well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10			0	no petroleum odor
20	- same lithology		0	no petroleum odor
30	competent shale bedrock at 33"		0	well consruction: 35 feet total well depth surface flush manhole 4 inch diameter 10 feet solid casing 25 feet 0.02" screen
----	end boring @ 35 feet.			
40				
50				
60				
70				
80				
90				
100				

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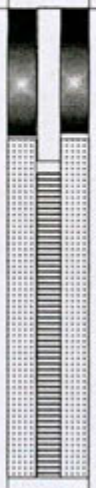
COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-3

PROJECT nO: BLAIR-01	DATE: 6/18/13	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: KEYES well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10			0	no petroleum odor
20	- same lithology		7	no petroleum odor
30	end boring @ 31 feet.		0	well consruction: 31 feet total well depth surface flush manhole 4 inch diameter 11 feet solid casing 20 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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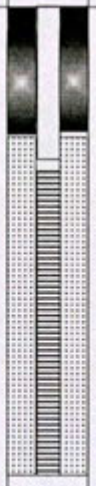
COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-4

PROJECT nO: BLAIR-01	DATE: 7/2/13	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: KEYES well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10			18	slight petroleum odor
20	- same lithology		10	no petroleum odor
30	end boring @ 30 feet.		0	well consruction: 30 feet total well depth surface flush manhole 4 inch diameter 12 feet solid casing 18 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-5

PROJECT nO: BLAIR-01	DATE: 8/21/13	DRILLING METHOD:	hollow stem auger
PROJECT TITLE: Blair		DRILLING COMPANY:	Earthcore well drilling
PROJECT LOCATION: Former Blairs Auto, 3575 Schuylkill Road, Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10	- same lithology		0	no petroleum odor
20	- bedrock, shale, @ 22 feet		0	no petroleum odor
	- end boring @ 25 feet.			
30				well consruction: 25 feet total well depth surface flush manhole 4 inch diameter 10 feet solid casing 15 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-6

PROJECT no: BLAIR-01	DATE: 8/22/13	DRILLING METHOD:	hollow stem auger
PROJECT TITLE: Blair		DRILLING COMPANY:	Earthcore well drilling
PROJECT LOCATION: Former Blairs Auto, 3575 Schuylkill Road, Spring City, PA		BOREHOLE DIAMETER (IN): 6	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10	- same lithology		0	no petroleum odor
20	- bedrock, shale, @ 22 feet		0	no petroleum odor
30	- end boring @ 30 feet.			well consruction: 30 feet total well depth surface flush manhole 2 inch diameter 10 feet solid casing 20 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-7

PROJECT nO: BLAIR-01	DATE: 1/9/14	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: CS Garber well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, cold	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10				
20	- same lithology		17	slight petroleum odor
	competent shale bedrock at 23"		0	no petroleum odor
30			0	
----	end boring @ 35 feet.			well consruction: 35 feet total well depth surface flush manhole 4 inch diameter 15 feet solid casing 20 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-8

PROJECT nO: BLAIR-01	DATE: 1/9/14	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: CS Garber well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, cold	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10				
20	- same lithology		0	no petroleum odor
	competent shale bedrock at 22"		0	no petroleum odor
30			0	
----	end boring @ 35 feet.			well consruction: 35 feet total well depth surface flush manhole 4 inch diameter 15 feet solid casing 20 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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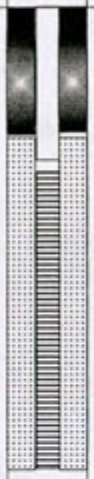
COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-9

PROJECT no: BLAIR-01	DATE: 4/22/14	DRILLING METHOD: Air Rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: CS Garber well drilling	
PROJECT LOCATION: Former Blairs Auto, 3575 Schuylkill Road, Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10				
	- bedrock, shale, @ 16 feet, reddish brown		14	no petroleum odor
20			0	no petroleum odor
30	- end boring @ 30 feet.			well consruction: 30 feet total well depth surface flush manhole 4 inch diameter 10 feet solid casing 20 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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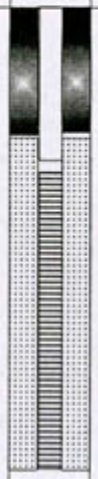
COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-10

PROJECT no: BLAIR-01	DATE: 4/22/14	DRILLING METHOD: Air Rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: CS Garber well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10				
20	- bedrock, shale, @ 18 feet, reddish brown		0	no petroleum odor
30	- end boring @ 30 feet.		0	no petroleum odor
40				well consruction: 30 feet total well depth surface flush manhole 4 inch diameter 10 feet solid casing 20 feet 0.02" screen
50				
60				
70				
80				
90				
100				

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-11

PROJECT nO: BLAIR-01	DATE: 7/23/14	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: CS Garber well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10	- same lithology		0	no petroleum odor
20	- bedrock, shale, @ 22 feet		0	no petroleum odor
	- end boring @ 25 feet.			
30				well consruction: 25 feet total well depth surface flush manhole 4 inch diameter 5 feet solid casing 20 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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APPENDIX E

LABORATORY ANALYTICAL DATA SHEETS

10/21/2014 1:18:11 PM

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

SAMPLE SUMMARY

Workorder: 1037571 BLAIR Discard Date: 08/07/2013

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1037571001	MW-1	Ground Water	7/17/13 00:00	7/17/13 20:25	John VanWagenen
1037571002	MW-2	Ground Water	7/17/13 00:00	7/17/13 20:25	John VanWagenen
1037571003	MW-3	Ground Water	7/17/13 00:00	7/17/13 20:25	John VanWagenen
1037571004	MW-4	Ground Water	7/17/13 00:00	7/17/13 20:25	John VanWagenen

Workorder Comments:

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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(ALS) Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1037571 BLAIR

Lab ID: **1037571001** Date Collected: 7/17/2013 00:00 Matrix: Ground Water

Sample ID: **MW-1** Date Received: 7/17/2013 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:18	TMP	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:18	TMP	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:18	TMP	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			7/23/13 18:18	TMP	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			7/23/13 18:18	TMP	B
Toluene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:18	TMP	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			7/23/13 18:18	TMP	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:18	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:18	TMP	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	85.4		%	62-133	SW846 8260B			7/23/13 18:18	TMP	B
4-Bromofluorobenzene (S)	102		%	79-114	SW846 8260B			7/23/13 18:18	TMP	B
Dibromofluoromethane (S)	80.9		%	78-116	SW846 8260B			7/23/13 18:18	TMP	B
Toluene-d8 (S)	104		%	76-127	SW846 8260B			7/23/13 18:18	TMP	B

Sample Comments:

Denise Brooks
Project Coordinator

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ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1037571 BLAIR

Lab ID: **1037571002** Date Collected: 7/17/2013 00:00 Matrix: Ground Water

Sample ID: **MW-2** Date Received: 7/17/2013 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:35	TMP	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:35	TMP	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:35	TMP	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			7/23/13 18:35	TMP	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			7/23/13 18:35	TMP	B
Toluene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:35	TMP	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			7/23/13 18:35	TMP	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:35	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:35	TMP	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	83.4		%	62-133	SW846 8260B			7/23/13 18:35	TMP	B
4-Bromofluorobenzene (S)	99		%	79-114	SW846 8260B			7/23/13 18:35	TMP	B
Dibromofluoromethane (S)	81.1		%	78-116	SW846 8260B			7/23/13 18:35	TMP	B
Toluene-d8 (S)	103		%	76-127	SW846 8260B			7/23/13 18:35	TMP	B

Sample Comments:

Denise Brooks

Denise Brooks
Project Coordinator

10/21/2014 1:18:14 PM

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1037571 BLAIR

Lab ID: **1037571003** Date Collected: 7/17/2013 00:00 Matrix: Ground Water
Sample ID: **MW-3** Date Received: 7/17/2013 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	92.9		ug/L	1.0	SW846 8260B			7/23/13 18:52	TMP	B
Ethylbenzene	102		ug/L	1.0	SW846 8260B			7/23/13 18:52	TMP	B
Isopropylbenzene	11.5		ug/L	1.0	SW846 8260B			7/23/13 18:52	TMP	B
Methyl t-Butyl Ether	3.5		ug/L	1.0	SW846 8260B			7/23/13 18:52	TMP	B
Naphthalene	29.0		ug/L	2.0	SW846 8260B			7/23/13 18:52	TMP	B
Toluene	202		ug/L	10.0	SW846 8260B			7/20/13 10:19	GLQ	A
Total Xylenes	425		ug/L	3.0	SW846 8260B			7/23/13 18:52	TMP	B
1,2,4-Trimethylbenzene	178		ug/L	1.0	SW846 8260B			7/23/13 18:52	TMP	B
1,3,5-Trimethylbenzene	31.8		ug/L	1.0	SW846 8260B			7/23/13 18:52	TMP	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.2		%	62-133	SW846 8260B			7/20/13 10:19	GLQ	A
4-Bromofluorobenzene (S)	116	2	%	79-114	SW846 8260B			7/20/13 10:19	GLQ	A
Dibromofluoromethane (S)	94.8		%	78-116	SW846 8260B			7/20/13 10:19	GLQ	A
Toluene-d8 (S)	110		%	76-127	SW846 8260B			7/20/13 10:19	GLQ	A
1,2-Dichloroethane-d4 (S)	89		%	62-133	SW846 8260B			7/23/13 18:52	TMP	B
4-Bromofluorobenzene (S)	97.5		%	79-114	SW846 8260B			7/23/13 18:52	TMP	B
Dibromofluoromethane (S)	76.3	1	%	78-116	SW846 8260B			7/23/13 18:52	TMP	B
Toluene-d8 (S)	98.2		%	76-127	SW846 8260B			7/23/13 18:52	TMP	B

Sample Comments:

Denise Brooks
Project Coordinator

10/21/2014 1:18:16 PM

Latitude dd:	40.1838888889		
Longitude dd:	-75.5611111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	41
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103329
Source site:	2	Local permit:	Not Reported
Latest owner:	102615	Driller sc:	0
Latest prod:	103858	Latest well:	105582
Site id:	PASI30000057719		

F14
NNE
1/4 - 1/2 Mile
Lower

PA WELLS **SPAW0058765**

Well ID:	X 0576		
Owner's Name:	E DEMUTI,JR	County	CHESTER
Latitude:	401102	Longitude:	753340
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	98	Finish:	OTHER
Casing 1:	41	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	12	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	Not Reported
Bedrock:	41	Driller:	0072
Water Bearing Zone 1:	72	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

G15
NW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40001011767**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401055075340701		
Monloc name:	CH 3292		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1820458
Longitude:	-75.5682438	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

10/21/2014 1:17:06 PM

Aquifer type:	Not Reported		
Construction date:	19460823	Welldepth:	250
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1946-08-23	20	

G16
NW
1/4 - 1/2 Mile
Higher

PA WELLS **PASI30000057333**

Dep counter:	0	Siteid:	401055075340701
Transactio:	1	Local welln:	CH 3292
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	UNKNOWN	Well depth:	250
Elevation:	0		
Elev method:	UNKNOWN		
Accuracy of elev:	Not Reported	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/26/1977
Date updated:	03/03/1990		
Data Reliability:	NOT FLD CHECKED, RPRTING AGENCY CONSIDERS IT OK (DEP WSM, WWI web)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1819444444		
Longitude dd:	-75.5686111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	08/23/1946	Pagwis id:	12168
Source site:	1	Local permit:	Not Reported
Latest owner:	12233	Driller sc:	0
Latest prod:	8722	Latest well:	12168
Site id:	PASI30000057333		

E17
SSE
1/4 - 1/2 Mile
Lower

PA WELLS **SPAW0058756**

Well ID:	X 0249		
Owner's Name:	FRISCH JOHN	County	CHESTER
Latitude:	401026	Longitude:	753333
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	223	Finish:	OTHER
Casing 1:	31	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

10/21/2014 1:17:07 PM

Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	7	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	5
Bedrock:	Not Reported	Driller:	0000
Water Bearing Zone 1:	182	Water Bearing Zone 2:	218
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

E18
SSE
1/4 - 1/2 Mile
Lower

PA WELLS **PASI30000056038**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0249
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	223
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1738888889		
Longitude dd:	-75.5591666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103320
Source site:	2	Local permit:	Not Reported
Latest owner:	102606	Driller sc:	0
Latest prod:	103849	Latest well:	105573
Site id:	PASI30000056038		

H19
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055561**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0233
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	98
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		

10/21/2014 1:17:08 PM

Latitude dd:	40.1708333333		
Longitude dd:	-75.5658333333		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103308
Source site:	2	Local permit:	Not Reported
Latest owner:	102594	Driller sc:	0
Latest prod:	103837	Latest well:	105561
Site id:	PASI30000055561		

H20
SSW
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058744**

Well ID:	X 0233		
Owner's Name:	JOHN FRANK INC	County	CHESTER
Latitude:	401015	Longitude:	753357
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	98	Finish:	OTHER
Casing 1:	49	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	20	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	7
Bedrock:	Not Reported	Driller:	0072
Water Bearing Zone 1:	78	Water Bearing Zone 2:	91
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

H21
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011329**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401015075335901		
Monloc name:	CH 3290		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1709352
Longitude:	-75.5660227	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	228
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

10/21/2014 1:17:10 PM

Aquifer type:	Not Reported		
Construction date:	1974	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1987-01-18	18.5	

H22
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055560**

Dep counter:	0	Siteid:	401015075335901
Transactio:	1	Local welln:	CH 3290
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	0
Elevation:	230		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	07/05/1988
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1708333333		
Longitude dd:	-75.5663888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1974	Pagwis id:	12102
Source site:	1	Local permit:	Not Reported
Latest owner:	12167	Driller sc:	0
Latest prod:	35905	Latest well:	12102
Site id:	PASI30000055560		

23
NW
1/2 - 1 Mile
Higher

PA WELLS **PASI30000057982**

Dep counter:	0	Siteid:	410834080011301
Transactio:	1	Local welln:	MR 2105
County:	MERCER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	327CQSG
Topography:	HILLSIDE	Well depth:	80
Elevation:	1350		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	05030105
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	SANDY LAKE
Type of site:	WELL	Date created:	12/10/1976
Date updated:	04/18/1991		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	WORTH TWP.		

10/21/2014 1:17:11 PM

Latitude dd:	40.18528		
Longitude dd:	-75.57111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1947	Pagwis id:	39972
Source site:	1	Local permit:	Not Reported
Latest owner:	39654	Driller sc:	0
Latest prod:	0	Latest well:	39972
Site id:	PASI30000057982		

I24
South
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055375**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0239
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	Not Reported	Well depth:	123
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1697222222		
Longitude dd:	-75.5638888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	34
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103313
Source site:	2	Local permit:	Not Reported
Latest owner:	102599	Driller sc:	0
Latest prod:	103842	Latest well:	105566
Site id:	PASI30000055375		

I25
South
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058749**

Well ID:	X 0239		
Owner's Name:	JOHN FRANK INC	County	CHESTER
Latitude:	401011	Longitude:	753350
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	Not Reported
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	123	Finish:	OTHER
Casing 1:	38	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

10/21/2014 1:17:12 PM

Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	14	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	3
Bedrock:	34	Driller:	0072
Water Bearing Zone 1:	68	Water Bearing Zone 2:	97
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

J26
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40001012045**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401117075340101		
Monloc name:	CH 145		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1881567
Longitude:	-75.5665763	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	325
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1914	Welldepth:	404
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1946-10	175.00	

J27
NNW
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058362**

Dep counter:	0	Siteid:	401117075340101
Transactio:	1	Local welln:	CH 145
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLTOP	Well depth:	404
Elevation:	330		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		

10/21/2014 1:17:13 PM

Latitude dd:	40.1880555556		
Longitude dd:	-75.5669444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1914	Pagwis id:	12206
Source site:	1	Local permit:	Not Reported
Latest owner:	12270	Driller sc:	0
Latest prod:	8745	Latest well:	12206
Site id:	PASI30000058362		

K28
West
1/2 - 1 Mile
Higher

FED USGS **USGS40001011653**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401047075343501		
Monloc name:	CH 3233		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1798235
Longitude:	-75.5760223	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	290
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	19810201	Welldepth:	120
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1987-11-13	12.2	

Note: The site had been pumped recently.

K29
West
1/2 - 1 Mile
Higher

PA WELLS **PASI30000056944**

Dep counter:	0	Siteid:	401047075343501
Transactio:	1	Local welln:	CH 3233
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	120
Elevation:	300		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	20	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	01/22/1988
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1797222222		
Longitude dd:	-75.5763888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	02/01/1981	Pagwis id:	12151
Source site:	1	Local permit:	Not Reported
Latest owner:	12216	Driller sc:	0
Latest prod:	35933	Latest well:	12151
Site id:	PASI30000056944		

L30
South
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055160**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0240
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	123
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1683333333		
Longitude dd:	-75.5611111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	42
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103314
Source site:	2	Local permit:	Not Reported
Latest owner:	102600	Driller sc:	0
Latest prod:	103843	Latest well:	105567
Site id:	PASI30000055160		

L31
South
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058750**

Well ID:	X 0240		
Owner's Name:	JOHN FRANK INC	County	CHESTER
Latitude:	401006	Longitude:	753340
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	123	Finish:	OTHER
Casing 1:	48	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

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Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	7	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	6
Bedrock:	42	Driller:	0072
Water Bearing Zone 1:	106	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

M32
SW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055697**

Dep counter:	0	Siteid:	401018075342401
Transactio:	1	Local welln:	CH 2356
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	140
Elevation:	260		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1716666667		
Longitude dd:	-75.5733333333		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	10/11/1974	Pagwis id:	12106
Source site:	1	Local permit:	Not Reported
Latest owner:	12171	Driller sc:	0
Latest prod:	8674	Latest well:	12106
Site id:	PASI30000055697		

M33
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011361**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401018075342401		
Monloc name:	CH 2356		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1717683
Longitude:	-75.5729675	Sourcemap scale:	24000

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Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	255
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19741011	Welldepth:	140
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1974-10-11	37.00	

N34
North
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058547**

Dep counter:	0	Siteid:	401122075335101
Transactio:	1	Local welln:	CH 147
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	804
Elevation:	310		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	06/28/1994		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1894444444		
Longitude dd:	-75.5641666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1914	Pagwis id:	12930
Source site:	1	Local permit:	Not Reported
Latest owner:	13035	Driller sc:	0
Latest prod:	36318	Latest well:	12930
Site id:	PASI30000058547		

N35
North
1/2 - 1 Mile
Higher

FED USGS **USGS40001012099**

10/21/2014 1:17:18 PM

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401122075335101		
Monloc name:	CH 147		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1895457
Longitude:	-75.5637982	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	310
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	804
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1948-06	101.00	

O36
SSW
1/2 - 1 Mile
Lower

PA WELLS **SPAW0057176**

Well ID:	X 0092		
Owner's Name:	LEINBACH C	County	CHESTER
Latitude:	401009	Longitude:	753409
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	95	Finish:	OTHER
Casing 1:	45	Casing1 Diameter(inches):	7
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	25	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	1
Bedrock:	41	Driller:	1014
Water Bearing Zone 1:	57	Water Bearing Zone 2:	72
Water Bearing Zone 3:	86	Lithology:	SANDSTONE
Municipality:	EAST COVENTRY	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

O37
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055287**

10/21/2014 1:17:20 PM

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0092
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	95
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST COVENTRY TWP.		
Latitude dd:	40.1691666667		
Longitude dd:	-75.5691666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	41
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	101740
Source site:	2	Local permit:	Not Reported
Latest owner:	101027	Driller sc:	0
Latest prod:	102276	Latest well:	104008
Site id:	PASI30000055287		

O38
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011271**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401009075341001		
Monloc name:	CH 2222		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1692685
Longitude:	-75.5690786	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	230
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19670718	Welldepth:	89
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
O39 **SSW** **1/2 - 1 Mile** **Lower**	**PA WELLS**	**PASI30000055286**

Dep counter:	0	Siteid:	401009075341001
Transactio:	1	Local welln:	CH 2222
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	89
Elevation:	230		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	10/04/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1691666667		
Longitude dd:	-75.5694444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	07/18/1967	Pagwis id:	12098
Source site:	1	Local permit:	Not Reported
Latest owner:	12163	Driller sc:	0
Latest prod:	8666	Latest well:	12098
Site id:	PASI30000055286		

	Database	EDR ID Number
P40 **NNW** **1/2 - 1 Mile** **Higher**	**PA WELLS**	**PASI30000058546**

Dep counter:	0	Siteid:	401122075335901
Transactio:	1	Local welln:	CH 143
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLTOP	Well depth:	443
Elevation:	320		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	12/06/1976
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1894444444		
Longitude dd:	-75.5663888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1914	Pagwis id:	12217
Source site:	1	Local permit:	Not Reported
Latest owner:	12281	Driller sc:	0
Latest prod:	8752	Latest well:	12217

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Site id: PASI30000058546

P41
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40001012100**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401122075335901		
Monloc name:	CH 143		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1895456
Longitude:	-75.5660206	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	320
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1914	Welldepth:	443
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1948-10-09	171.00	

Q42
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40001012068**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401119075341001		
Monloc name:	CH 146		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1887122
Longitude:	-75.5690764	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	345
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		

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Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	400
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

Q43
NNW
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058439**

Dep counter:	0	Siteid:	401119075341001
Transactio:	1	Local welln:	CH 146
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLTOP	Well depth:	400
Elevation:	350		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	12/06/1976
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1886111111		
Longitude dd:	-75.5694444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1973	Pagwis id:	12213
Source site:	1	Local permit:	Not Reported
Latest owner:	12277	Driller sc:	0
Latest prod:	0	Latest well:	12213
Site id:	PASI30000058439		

M44
SW
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058815**

Well ID:	X 2638		
Owner's Name:	DOLNY RICHARD	County	CHESTER
Latitude:	401017	Longitude:	753425
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	Not Reported
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	140	Finish:	OPEN HOLE
Casing 1:	55	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-00
Static Water Level:	37	Production WL:	Not Reported
Yield (gpm):	100	Yield Measurement Method:	5
Drawdown:	103	Test Time:	Not Reported
Bedrock:	7	Driller:	0188
Water Bearing Zone 1:	60	Water Bearing Zone 2:	95
Water Bearing Zone 3:	110	Lithology:	Not Reported
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

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Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
M45 **SW** **1/2 - 1 Mile** **Lower**	**PA WELLS**	**PASI30000055659**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 2638
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	Not Reported	Well depth:	140
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1713888889		
Longitude dd:	-75.5736111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	7
Bedrock not:	0	Saltwaterz:	0
Date drilled:	06/01/1986	Pagwis id:	103379
Source site:	2	Local permit:	Not Reported
Latest owner:	102665	Driller sc:	0
Latest prod:	103908	Latest well:	105632
Site id:	PASI30000055659		

	Database	EDR ID Number
O46 **SSW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40001011239**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401007075341201		
Monloc name:	CH 3663		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.168713
Longitude:	-75.5696343	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	218
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	19880808	Welldepth:	300
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1989-07-18	0	

O47
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055208**

Dep counter:	0	Siteid:	401007075341201
Transactio:	1	Local welln:	CH 3663
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	300
Elevation:	220		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	5	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/01/1994
Date updated:	02/01/1994		
Data Reliability:	NOT FLD CHECKED, RPRTING AGENCY CONSIDERS IT OK (DEP WSM, WWI web)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1686111111		
Longitude dd:	-75.57		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	08/08/1988	Pagwis id:	12613
Source site:	1	Local permit:	Not Reported
Latest owner:	12682	Driller sc:	0
Latest prod:	8989	Latest well:	12613
Site id:	PASI30000055208		

N48
North
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058679**

Dep counter:	425	Siteid:	Not Reported
Transactio:	0	Local welln:	Not Reported
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	1
Topography:	Not Reported	Well depth:	804
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	Not Reported	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	08/08/1986
Date updated:	01/28/1993		
Data Reliability:	Not Reported		
Source Depth Data:	Not Reported		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1903		
Longitude dd:	-75.5642		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1940	Pagwis id:	214937
Source site:	5	Local permit:	Not Reported
Latest owner:	213907	Driller sc:	0
Latest prod:	212661	Latest well:	216325
Site id:	PASI30000058679		

Agency Use Information:

Counterlink:	425	Transaction counter:	1
Agency use of sitecode:	OBSERVATION		
Agency usedate:	Not Reported		

Construction Information:

Recnum flag:	1	Counterlink:	425
Conscounter:	2707	Transaction counter:	1
Recnum consubrec:	1	Parent seqnum conssubrec:	Not Reported
Construction date:	Not Reported		
Driller:	1		
Source Cons Data:	OTHER/UNKNOWN/UNSPECIFIED		
Method Cons:	CABLE TOOL		
Finish:	OPEN HOLE		
Drillers well id:	Not Reported		
Interimwell id:	Not Reported	Abandonmentreasoncode:	Not Reported
Construction code:	Not Reported	Original driller:	Not Reported
Original driller name:	Not Reported		

Geohydrologic Information:

Counterlink:	425	Transaction counter:	1
Seqnum geohsubrec:	1	Parent seqnum aqfrsubrec:	1
Aapg code:	374LSVL	Top of interval:	Not Reported
Lithology:	DOLOMITE		
Contributing Unit:	PRIMARY		
Bottom of interval:	Not Reported		

Site Water Use Information:

Counterlink:	425	Transaction counter:	1
Site Use:	WITHDRAWAL		
Water Use:	RECREATION		
Date of use:	Not Reported	Note:	Not Reported
Site waterid:	425		

Production Information:

Counterlink:	425	Transaction counter:	1
Prod seqnum:	1		
Discharge Type:	PUMPED		
Data Source:	Not Reported		
Discharge Meas Method:	Not Reported		
Discharge:	89	Swl:	10
W L Data Source:	S		
W L Meas Method:	REPORTED, METHOD NOT KNOWN		
Prodwl:	152	Drawdown:	142

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Speccap:	.629999995	Test length:	24
Site Status W L Meas:	Not Reported		
Date discharged:	02/01/1965		
Conslink:	Not Reported	Production id:	1863
Owner Information:			
Counterlink:	425	Transaction counter:	1
Seqnum owner subrec:	1	Owner:	MOUNT PENN BOROUGH M
Zipcode:	Not Reported	Owner firstname:	Not Reported
Date ownership:	01/01/1965	Conslink:	2707
Owner id:	2216		

R49
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011914**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401107075343201		
Monloc name:	CH 4769		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1853788
Longitude:	-75.5751883	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	247
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	19940630	Welldepth:	237
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1995-08-16	60.05	

Note: The site had been pumped recently.

R50
NW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057978**

10/21/2014 1:17:30 PM

Dep counter:	0	Siteid:	401107075343201
Transactio:	3	Local wellN:	CH 4769
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	Not Reported	Well depth:	237
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	02040203
Latlong acc:	Not Reported	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	09/06/1995
Date updated:	12/17/1997		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1852777778		
Longitude dd:	-75.5755555556		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	06/30/1994	Pagwis id:	43463
Source site:	1	Local permit:	Not Reported
Latest owner:	43135	Driller sc:	0
Latest prod:	0	Latest well:	43463
Site id:	PASI30000057978		

O51
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011232**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401006075341101		
Monloc name:	CH 3664		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1684352
Longitude:	-75.5693565	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	218
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	198708	Welldepth:	205
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
O52 **SSW** **1/2 - 1 Mile** **Lower**	**PA WELLS**	**PASI30000055159**

Dep counter:	0	Siteid:	401006075341101
Transactio:	1	Local welln:	CH 3664
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	205
Elevation:	220		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	5	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	01/10/1990
Date updated:	01/10/1990		
Data Reliability:	NOT FLD CHECKED, RPRTING AGENCY CONSIDERS IT OK (DEP WSM, WWI web)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1683333333		
Longitude dd:	-75.5697222222		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	08/01/1987	Pagwis id:	12092
Source site:	1	Local permit:	Not Reported
Latest owner:	12157	Driller sc:	0
Latest prod:	0	Latest well:	12092
Site id:	PASI30000055159		

	Database	EDR ID Number
S53 **NNW** **1/2 - 1 Mile** **Higher**	**PA WELLS**	**PASI30000058629**

Dep counter:	424	Siteid:	Not Reported
Transactio:	0	Local welln:	Not Reported
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	1
Topography:	Not Reported	Well depth:	400
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	Not Reported	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	06/29/1988
Date updated:	03/03/1990		
Data Reliability:	Not Reported		
Source Depth Data:	Not Reported		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.19		
Longitude dd:	-75.5678		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	09/01/1987	Pagwis id:	214936
Source site:	5	Local permit:	Not Reported
Latest owner:	213906	Driller sc:	0
Latest prod:	212660	Latest well:	216324

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Site id: PASI30000058629

Agency Use Information:

Counterlink:	424	Transaction counter:	1
Agency use of sitecode:	OBSERVATION		
Agency usedate:	Not Reported		

Construction Information:

Recnum flag:	1	Counterlink:	424
Conscounter:	2706	Transaction counter:	1
Recnum consubrec:	1	Parent seqnum conssubrec:	Not Reported
Construction date:	03/26/1966		
Driller:	0561		
Source Cons Data:	OTHER/UNKNOWN/UNSPECIFIED		
Method Cons:	CABLE TOOL		
Finish:	PERFORATED OR SLOTTED		
Drillers well id:	Not Reported		
Interimwell id:	Not Reported	Abandonmentreasoncode:	Not Reported
Construction code:	Not Reported	Original driller:	Not Reported
Original driller name:	Not Reported		

Geohydrologic Information:

Counterlink:	424	Transaction counter:	1
Seqnum geohsubrec:	1	Parent seqnum aqfrsubrec:	1
Aapg code:	374LSVL	Top of interval:	Not Reported
Lithology:	DOLOMITE		
Contributing Unit:	PRIMARY		
Bottom of interval:	Not Reported		

Site Water Use Information:

Counterlink:	424	Transaction counter:	1
Site Use:	WITHDRAWAL		
Water Use:	PUBLIC SUPPLY		
Date of use:	Not Reported	Note:	Not Reported
Site waterid:	424		

Production Information:

Counterlink:	424	Transaction counter:	1
Prod seqnum:	1		
Discharge Type:	PUMPED		
Data Source:	Not Reported		
Discharge Meas Method:	Not Reported		
Discharge:	300	Swl:	35
W L Data Source:	S		
W L Meas Method:	REPORTED, METHOD NOT KNOWN		
Prodwl:	85	Drawdown:	50
Speccap:	6	Test length:	24
Site Status W L Meas:	Not Reported		
Date discharged:	03/26/1966		
Conslink:	2706	Production id:	1862

Owner Information:

Counterlink:	424	Transaction counter:	1
Seqnum owner subrec:	1	Owner:	MOUNT PENN BOROUGH MUNICIPAL AUTH
Zipcode:	Not Reported	Owner firstname:	Not Reported
Date ownership:	12/31/1966	Conslink:	2706
Owner id:	2215		

Other Id Information:			
Counterlink:	424	Transaction counter:	1
Seqnum otherid subrec:	2	Other identifier:	D-66-124 CP
Other id assignor:	DRBC		
Other Id Information:			
Counterlink:	424	Transaction counter:	1
Seqnum otherid subrec:	3	Other identifier:	6
Other id assignor:	OWNER PA		

T54
SW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055242**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local wellN:	5589N
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	150
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1688888889		
Longitude dd:	-75.5716666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	04/24/1978	Pagwis id:	103231
Source site:	2	Local permit:	Not Reported
Latest owner:	102517	Driller sc:	0
Latest prod:	103760	Latest well:	105485
Site id:	PASI30000055242		

T55
SW
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058667**

Well ID:	5589N		
Owner's Name:	WALLEIGH C	County	CHESTER
Latitude:	401008	Longitude:	753418
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	02040203	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	150	Finish:	Not Reported
Casing 1:	53	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

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Grouted:	Not Reported	Date Drilled:	4-24-78
Static Water Level:	Not Reported	Production WL:	58
Yield (gpm):	12	Yield Measurement Method:	V
Drawdown:	Not Reported	Test Time:	1.75
Bedrock:	Not Reported	Driller:	72
Water Bearing Zone 1:	86	Water Bearing Zone 2:	138
Water Bearing Zone 3:	Not Reported	Lithology:	SANDSTONE
Municipality:	EAST VINCENT	Remark:	RT=DARK RED SS
Aquifer:	BRUNSWICK FORMATION		

S56
NNW
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058671**

Dep counter:	0	Siteid:	401125075340501
Transactio:	1	Local welln:	CH 144
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLTOP	Well depth:	421
Elevation:	320		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1902777778		
Longitude dd:	-75.5680555556		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1914	Pagwis id:	12223
Source site:	1	Local permit:	Not Reported
Latest owner:	12287	Driller sc:	0
Latest prod:	8757	Latest well:	12223
Site id:	PASI30000058671		

S57
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40001012126**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401125075340501		
Monloc name:	CH 144		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1903789
Longitude:	-75.5676873	Sourcemap scale:	24000

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Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	320
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1914	Welldepth:	421
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1956-01-23	115.00	

U58
East
1/2 - 1 Mile
Lower

FED USGS **USGS40001011720**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401052075325001		
Monloc name:	CH 150		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1812131
Longitude:	-75.5468537	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	100
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	1954	Welldepth:	260
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1956-05-01	30.00	

U59
East
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057194**

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Dep counter:	0	Siteid:	401052075325001
Transactio:	1	Local welln:	CH 150
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	260
Elevation:	100		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1811111111		
Longitude dd:	-75.5472222222		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1954	Pagwis id:	12161
Source site:	1	Local permit:	Not Reported
Latest owner:	12226	Driller sc:	0
Latest prod:	8716	Latest well:	12161
Site id:	PASI30000057194		

U60
East
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057088**

Dep counter:	463	Siteid:	Not Reported
Transactio:	0	Local welln:	Not Reported
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	1
Topography:	Not Reported	Well depth:	0
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	Not Reported	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	12/06/1976
Date updated:	06/28/1994		
Data Reliability:	Not Reported		
Source Depth Data:	Not Reported		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1808		
Longitude dd:	-75.5469		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	10/07/1996	Pagwis id:	214968
Source site:	5	Local permit:	Not Reported
Latest owner:	213938	Driller sc:	0
Latest prod:	212691	Latest well:	216356

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Site id:	PASI30000057088		
Agency Use Information:			
Counterlink:	463	Transaction counter:	1
Agency use of sitecode:	OBSERVATION		
Agency usedate:	Not Reported		
Construction Information:			
Recnum flag:	1	Counterlink:	463
Conscounter:	2744	Transaction counter:	1
Recnum consubrec:	1	Parent seqnum conssubrec:	Not Reported
Construction date:	01/01/1967		
Driller:	1		
Source Cons Data:	OTHER/UNKNOWN/UNSPECIFIED		
Method Cons:	AIR ROTARY		
Finish:	OPEN HOLE		
Drillers well id:	Not Reported		
Interimwell id:	Not Reported	Abandonmentreasoncode:	Not Reported
Construction code:	Not Reported	Original driller:	Not Reported
Original driller name:	Not Reported		
Geohydrologic Information:			
Counterlink:	463	Transaction counter:	1
Seqnum geohsubrec:	1	Parent seqnum aqfrsubrec:	1
Aapg code:	374LSVL	Top of interval:	Not Reported
Lithology:	DOLOMITE		
Contributing Unit:	PRIMARY		
Bottom of interval:	Not Reported		
Site Water Use Information:			
Counterlink:	463	Transaction counter:	1
Site Use:	WITHDRAWAL		
Water Use:	PUBLIC SUPPLY		
Date of use:	Not Reported	Note:	Not Reported
Site waterid:	463		
Production Information:			
Counterlink:	463	Transaction counter:	1
Prod seqnum:	1		
Discharge Type:	PUMPED		
Data Source:	Not Reported		
Discharge Meas Method:	Not Reported		
Discharge:	1000	Swl:	63
W L Data Source:	S		
W L Meas Method:	REPORTED, METHOD NOT KNOWN		
Prodwl:	85	Drawdown:	22
Speccap:	45.4000015	Test length:	43
Site Status W L Meas:	Not Reported		
Date discharged:	01/01/1978		
Conslink:	Not Reported	Production id:	1892
Owner Information:			
Counterlink:	463	Transaction counter:	1
Seqnum owner subrec:	1	Owner:	MOUNT PENN BOROUGH M
Zipcode:	Not Reported	Owner firstname:	Not Reported
Date ownership:	01/01/1967	Conslink:	2744
Owner id:	2254		

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Map ID / Direction / Distance / Elevation		Database	EDR ID Number
V61 **WNW** **1/2 - 1 Mile** **Lower**		**PA WELLS**	**PASI30000057622**

Dep counter:	0	Siteid:	401100075344301
Transactio:	1	Local welln:	CH 1563
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	115
Elevation:	260		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	10/04/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1833333333		
Longitude dd:	-75.5786111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	06/22/1967	Pagwis id:	12178
Source site:	1	Local permit:	Not Reported
Latest owner:	12242	Driller sc:	0
Latest prod:	8728	Latest well:	12178
Site id:	PASI30000057622		

V62 **WNW** **1/2 - 1 Mile** **Lower**		**FED USGS**	**USGS40001011831**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401100075344301		
Monloc name:	CH 1563		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1834344
Longitude:	-75.5782443	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	260
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		

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Aquifer type:	Not Reported		
Construction date:	19670622	Welldepth:	115
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

U63
ENE
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057288**

Dep counter:	0	Siteid:	401054075324801
Transactio:	1	Local welln:	CH 148
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	180
Elevation:	100		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	10/04/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1816666667		
Longitude dd:	-75.5466666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1905	Pagwis id:	12164
Source site:	1	Local permit:	Not Reported
Latest owner:	12229	Driller sc:	0
Latest prod:	8719	Latest well:	12164
Site id:	PASI30000057288		

U64
ENE
1/2 - 1 Mile
Lower

FED USGS **USGS40001011750**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401054075324801		
Monloc name:	CH 148		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1817686
Longitude:	-75.546298	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	100
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	1905	Welldepth:	180
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

U65
East
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057137**

Dep counter:	0	Siteid:	401051075324701
Transactio:	1	Local welln:	CH 149
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	230
Elevation:	100		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1808333333		
Longitude dd:	-75.5463888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1949	Pagwis id:	12160
Source site:	1	Local permit:	Not Reported
Latest owner:	12225	Driller sc:	0
Latest prod:	8715	Latest well:	12160
Site id:	PASI30000057137		

U66
East
1/2 - 1 Mile
Lower

FED USGS **USGS40001011709**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401051075324701		
Monloc name:	CH 149		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1809353
Longitude:	-75.5460203	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	100
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	1949	Welldepth:	230
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1956-05-01	30.00	

W67
North
1/2 - 1 Mile
Lower

FED USGS **USGS40001012188**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401130075335001		
Monloc name:	CH 142		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1917678
Longitude:	-75.5635202	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	235
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	192803	Welldepth:	529
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1954	190.00	

W68
North
1/2 - 1 Mile
Lower

PA WELLS **PASI30000058885**

Dep counter:	0	Siteid:	401130075335001
Transactio:	1	Local welln:	CH 142
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	529
Elevation:	240		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1916666667		
Longitude dd:	-75.5638888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	03/01/1928	Pagwis id:	12233
Source site:	1	Local permit:	Not Reported
Latest owner:	12297	Driller sc:	0
Latest prod:	8763	Latest well:	12233
Site id:	PASI30000058885		

X69
SSE
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055003**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0231
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	123
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1672222222		
Longitude dd:	-75.5544444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	46
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103307
Source site:	2	Local permit:	Not Reported
Latest owner:	102593	Driller sc:	0
Latest prod:	103836	Latest well:	105560
Site id:	PASI30000055003		

X70
SSE
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058743**

Well ID:	X 0231		
Owner's Name:	VAUGHAN CHAS	County	CHESTER
Latitude:	401002	Longitude:	753316
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	123	Finish:	OTHER
Casing 1:	48	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

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Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	22	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	Not Reported
Bedrock:	46	Driller:	0072
Water Bearing Zone 1:	97	Water Bearing Zone 2:	118
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

Y71
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000054895**

Dep counter:	0	Siteid:	400959075341001
Transactio:	1	Local welln:	CH 3174
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	205
Elevation:	230		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/06/1987
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	WELL OWNER		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1663888889		
Longitude dd:	-75.5694444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	06/02/1978	Pagwis id:	12082
Source site:	1	Local permit:	Not Reported
Latest owner:	12145	Driller sc:	0
Latest prod:	35894	Latest well:	12082
Site id:	PASI30000054895		

Y72
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011160**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-400959075341001		
Monloc name:	CH 3174		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1664908
Longitude:	-75.569079	Sourcemap scale:	24000

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Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	230
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	205
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1987-10-02	9.0	

Z73
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40001012176**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401129075340901		
Monloc name:	CH 181		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1914899
Longitude:	-75.5687983	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	275
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	19630524	Welldepth:	700
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1963-05-24	132.00	

Z74
NNW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000058852**

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Dep counter:	0	Siteid:	401129075340901
Transactio:	1	Local welln:	CH 181
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	700
Elevation:	280		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	06/28/1994		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1913888889		
Longitude dd:	-75.5691666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	05/24/1963	Pagwis id:	12931
Source site:	1	Local permit:	Not Reported
Latest owner:	13036	Driller sc:	0
Latest prod:	9195	Latest well:	12931
Site id:	PASI30000058852		

AA75
North
1/2 - 1 Mile
Lower

PA WELLS **PASI30000058983**

Dep counter:	0	Siteid:	401133075334301
Transactio:	1	Local welln:	CH 141
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	327
Elevation:	250		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1925		
Longitude dd:	-75.5619444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1913	Pagwis id:	12238
Source site:	1	Local permit:	Not Reported
Latest owner:	12302	Driller sc:	0
Latest prod:	8768	Latest well:	12238

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Site id: PASI30000058983

AA76
North
1/2 - 1 Mile
Lower

FED USGS **USGS40001012221**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401133075334301		
Monloc name:	CH 141		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1926012
Longitude:	-75.5615755	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	250
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	1913	Welldepth:	327
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1948	52.00	

AB77
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40001012116**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401124075342501		
Monloc name:	CH 3163		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1901009
Longitude:	-75.5732432	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	225
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	198709	Welldepth:	122
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1988-01-21	54.12	

AB78
NW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000058628**

Dep counter:	0	Siteid:	401124075342501
Transactio:	1	Local welln:	CH 3163
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	122
Elevation:	220		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	20	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	06/29/1988
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	WELL OWNER		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.19		
Longitude dd:	-75.5736111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	09/01/1987	Pagwis id:	12220
Source site:	1	Local permit:	Not Reported
Latest owner:	12284	Driller sc:	0
Latest prod:	35975	Latest well:	12220
Site id:	PASI30000058628		

AC79
ESE
1/2 - 1 Mile
Lower

FED USGS **USGS40001011377**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401019075324801		
Monloc name:	CH 1562		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1720468
Longitude:	-75.5462991	Sourcemap scale:	24000

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Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	258
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19670717	Welldepth:	95
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AC80
ESE
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055731**

Dep counter:	0	Siteid:	401019075324801
Transactio:	1	Local welln:	CH 1562
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	95
Elevation:	260		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	10/04/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1719444444		
Longitude dd:	-75.5466666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	07/17/1967	Pagwis id:	12107
Source site:	1	Local permit:	Not Reported
Latest owner:	12172	Driller sc:	0
Latest prod:	8675	Latest well:	12107
Site id:	PASI30000055731		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: PA Radon

Radon Test Results

Zipcode	Num Tests	Min pCi/L	Max pCi/L	Avg pCi/L
19475	1030	0.1	187.3	6.9

EPA Region 3 Statistical Summary Readings for Zip Code: 19475

Number of sites tested: 248.

Maximum Radon Level: 93.4 pCi/L.
Minimum Radon Level: 0.4 pCi/L.

pCi/L <4	pCi/L 4-10	pCi/L 10-20	pCi/L 20-50	pCi/L 50-100	pCi/L >100
139 (56.05%)	68 (27.42%)	29 (11.69%)	5 (2.02%)	7 (2.82%)	0 (0.00%)

Federal EPA Radon Zone for CHESTER County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

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PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

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

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

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PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Pennsylvania Public Water Supply Wells
Source: Pennsylvania Department of Environmental Resources Bureau of Water Supply
Telephone: 717-787-5017

Pennsylvania Groundwater Information System
Source: Department of Conservation and Natural Resources
Telephone: 717-702-2045

OTHER STATE DATABASE INFORMATION

Pennsylvania Oil and Gas Locations
Source: Pennsylvania Department of Environmental Protection
Telephone: 814-863-0104
An Oil and Gas Location is a DEP primary facility type related to the Oil & Gas Program. The sub-facility types related to Oil and Gas that are included in this layer are:Land Application -- An area where drilling cuttings or waste are disposed by land application; Well-- A well associated with oil and/or gas production; Pit -- An approved pit that is used for storage of oil and gas well fluids.Some sub facility types are not included in this layer due to security policies.

RADON

State Database: PA Radon
Source: Department of Environmental Protection
Telephone: 717-783-3594
Radon Test Results Statistics by Zip Code

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

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APPENDIX D

SOIL BORING/MONITORING WELL LOGS

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-1

PROJECT nO: BLAIR-01	DATE: 6/4/13	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: KEYES well drilling	
PROJECT LOCATION: Former Blairs Auto, 3575 Schuylkill Road, Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10			0	no petroleum odor
20	- same lithology		0	no petroleum odor
30	competent shale bedrock at 33'		0	well consruction:
	end boring @ 35 feet.			35 feet total well depth surface flush manhole 4 inch diameter 10 feet solid casing 25 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-2

PROJECT nO: BLAIR-01	DATE: 6/4/13	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: KEYES well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10			0	no petroleum odor
20	- same lithology		0	no petroleum odor
30	competent shale bedrock at 33"		0	well consruction: 35 feet total well depth surface flush manhole 4 inch diameter 10 feet solid casing 25 feet 0.02" screen
----	end boring @ 35 feet.			
40				
50				
60				
70				
80				
90				
100				

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Latitude dd:	40.1838888889		
Longitude dd:	-75.5611111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	41
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103329
Source site:	2	Local permit:	Not Reported
Latest owner:	102615	Driller sc:	0
Latest prod:	103858	Latest well:	105582
Site id:	PASI30000057719		

F14
NNE
1/4 - 1/2 Mile
Lower

PA WELLS **SPAW0058765**

Well ID:	X 0576		
Owner's Name:	E DEMUTI,JR	County	CHESTER
Latitude:	401102	Longitude:	753340
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	98	Finish:	OTHER
Casing 1:	41	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	12	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	Not Reported
Bedrock:	41	Driller:	0072
Water Bearing Zone 1:	72	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

G15
NW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40001011767**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401055075340701		
Monloc name:	CH 3292		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1820458
Longitude:	-75.5682438	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	19460823	Welldepth:	250
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1946-08-23	20	

G16
NW
1/4 - 1/2 Mile
Higher

PA WELLS **PASI30000057333**

Dep counter:	0	Siteid:	401055075340701
Transactio:	1	Local welln:	CH 3292
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	UNKNOWN	Well depth:	250
Elevation:	0		
Elev method:	UNKNOWN		
Accuracy of elev:	Not Reported	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/26/1977
Date updated:	03/03/1990		
Data Reliability:	NOT FLD CHECKED, RPRTING AGENCY CONSIDERS IT OK (DEP WSM, WWI web)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1819444444		
Longitude dd:	-75.5686111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	08/23/1946	Pagwis id:	12168
Source site:	1	Local permit:	Not Reported
Latest owner:	12233	Driller sc:	0
Latest prod:	8722	Latest well:	12168
Site id:	PASI30000057333		

E17
SSE
1/4 - 1/2 Mile
Lower

PA WELLS **SPAW0058756**

Well ID:	X 0249		
Owner's Name:	FRISCH JOHN	County	CHESTER
Latitude:	401026	Longitude:	753333
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	223	Finish:	OTHER
Casing 1:	31	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

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Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	7	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	5
Bedrock:	Not Reported	Driller:	0000
Water Bearing Zone 1:	182	Water Bearing Zone 2:	218
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

E18
SSE
1/4 - 1/2 Mile
Lower

PA WELLS **PASI30000056038**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0249
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	223
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1738888889		
Longitude dd:	-75.5591666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103320
Source site:	2	Local permit:	Not Reported
Latest owner:	102606	Driller sc:	0
Latest prod:	103849	Latest well:	105573
Site id:	PASI30000056038		

H19
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055561**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0233
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	98
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1708333333		
Longitude dd:	-75.5658333333		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103308
Source site:	2	Local permit:	Not Reported
Latest owner:	102594	Driller sc:	0
Latest prod:	103837	Latest well:	105561
Site id:	PASI30000055561		

H20
SSW
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058744**

Well ID:	X 0233		
Owner's Name:	JOHN FRANK INC	County	CHESTER
Latitude:	401015	Longitude:	753357
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	98	Finish:	OTHER
Casing 1:	49	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	20	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	7
Bedrock:	Not Reported	Driller:	0072
Water Bearing Zone 1:	78	Water Bearing Zone 2:	91
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

H21
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011329**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401015075335901		
Monloc name:	CH 3290		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1709352
Longitude:	-75.5660227	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	228
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	1974	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1987-01-18	18.5	

H22
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055560**

Dep counter:	0	Siteid:	401015075335901
Transactio:	1	Local welln:	CH 3290
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	0
Elevation:	230		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	07/05/1988
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1708333333		
Longitude dd:	-75.5663888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1974	Pagwis id:	12102
Source site:	1	Local permit:	Not Reported
Latest owner:	12167	Driller sc:	0
Latest prod:	35905	Latest well:	12102
Site id:	PASI30000055560		

23
NW
1/2 - 1 Mile
Higher

PA WELLS **PASI30000057982**

Dep counter:	0	Siteid:	410834080011301
Transactio:	1	Local welln:	MR 2105
County:	MERCER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	327CQSG
Topography:	HILLSIDE	Well depth:	80
Elevation:	1350		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	05030105
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	SANDY LAKE
Type of site:	WELL	Date created:	12/10/1976
Date updated:	04/18/1991		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	WORTH TWP.		

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Latitude dd:	40.18528		
Longitude dd:	-75.57111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1947	Pagwis id:	39972
Source site:	1	Local permit:	Not Reported
Latest owner:	39654	Driller sc:	0
Latest prod:	0	Latest well:	39972
Site id:	PASI30000057982		

I24
South
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055375**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0239
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	Not Reported	Well depth:	123
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1697222222		
Longitude dd:	-75.5638888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	34
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103313
Source site:	2	Local permit:	Not Reported
Latest owner:	102599	Driller sc:	0
Latest prod:	103842	Latest well:	105566
Site id:	PASI30000055375		

I25
South
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058749**

Well ID:	X 0239		
Owner's Name:	JOHN FRANK INC	County	CHESTER
Latitude:	401011	Longitude:	753350
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	Not Reported
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	123	Finish:	OTHER
Casing 1:	38	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

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Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	14	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	3
Bedrock:	34	Driller:	0072
Water Bearing Zone 1:	68	Water Bearing Zone 2:	97
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

J26
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40001012045**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401117075340101		
Monloc name:	CH 145		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1881567
Longitude:	-75.5665763	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	325
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1914	Welldepth:	404
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1946-10	175.00	

J27
NNW
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058362**

Dep counter:	0	Siteid:	401117075340101
Transactio:	1	Local welln:	CH 145
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLTOP	Well depth:	404
Elevation:	330		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1880555556		
Longitude dd:	-75.5669444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1914	Pagwis id:	12206
Source site:	1	Local permit:	Not Reported
Latest owner:	12270	Driller sc:	0
Latest prod:	8745	Latest well:	12206
Site id:	PASI30000058362		

K28
West
1/2 - 1 Mile
Higher

FED USGS **USGS40001011653**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401047075343501		
Monloc name:	CH 3233		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1798235
Longitude:	-75.5760223	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	290
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	19810201	Welldepth:	120
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1987-11-13	12.2	

Note: The site had been pumped recently.

K29
West
1/2 - 1 Mile
Higher

PA WELLS **PASI30000056944**

Dep counter:	0	Siteid:	401047075343501
Transactio:	1	Local welln:	CH 3233
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	120
Elevation:	300		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	20	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	01/22/1988
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1797222222		
Longitude dd:	-75.5763888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	02/01/1981	Pagwis id:	12151
Source site:	1	Local permit:	Not Reported
Latest owner:	12216	Driller sc:	0
Latest prod:	35933	Latest well:	12151
Site id:	PASI30000056944		

L30
South
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055160**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0240
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	123
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1683333333		
Longitude dd:	-75.5611111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	42
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103314
Source site:	2	Local permit:	Not Reported
Latest owner:	102600	Driller sc:	0
Latest prod:	103843	Latest well:	105567
Site id:	PASI30000055160		

L31
South
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058750**

Well ID:	X 0240		
Owner's Name:	JOHN FRANK INC	County	CHESTER
Latitude:	401006	Longitude:	753340
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	123	Finish:	OTHER
Casing 1:	48	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

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Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	7	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	6
Bedrock:	42	Driller:	0072
Water Bearing Zone 1:	106	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

M32
SW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055697**

Dep counter:	0	Siteid:	401018075342401
Transactio:	1	Local welln:	CH 2356
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	140
Elevation:	260		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1716666667		
Longitude dd:	-75.5733333333		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	10/11/1974	Pagwis id:	12106
Source site:	1	Local permit:	Not Reported
Latest owner:	12171	Driller sc:	0
Latest prod:	8674	Latest well:	12106
Site id:	PASI30000055697		

M33
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011361**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401018075342401		
Monloc name:	CH 2356		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1717683
Longitude:	-75.5729675	Sourcemap scale:	24000

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Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	255
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19741011	Welldepth:	140
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1974-10-11	37.00	

N34
North
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058547**

Dep counter:	0	Siteid:	401122075335101
Transactio:	1	Local welln:	CH 147
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	804
Elevation:	310		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	06/28/1994		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1894444444		
Longitude dd:	-75.5641666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1914	Pagwis id:	12930
Source site:	1	Local permit:	Not Reported
Latest owner:	13035	Driller sc:	0
Latest prod:	36318	Latest well:	12930
Site id:	PASI30000058547		

N35
North
1/2 - 1 Mile
Higher

FED USGS **USGS40001012099**

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Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401122075335101		
Monloc name:	CH 147		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1895457
Longitude:	-75.5637982	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	310
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	804
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1948-06	101.00	

O36
SSW
1/2 - 1 Mile
Lower

PA WELLS **SPAW0057176**

Well ID:	X 0092		
Owner's Name:	LEINBACH C	County	CHESTER
Latitude:	401009	Longitude:	753409
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	95	Finish:	OTHER
Casing 1:	45	Casing1 Diameter(inches):	7
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	25	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	1
Bedrock:	41	Driller:	1014
Water Bearing Zone 1:	57	Water Bearing Zone 2:	72
Water Bearing Zone 3:	86	Lithology:	SANDSTONE
Municipality:	EAST COVENTRY	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

O37
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055287**

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Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0092
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	95
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST COVENTRY TWP.		
Latitude dd:	40.1691666667		
Longitude dd:	-75.5691666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	41
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	101740
Source site:	2	Local permit:	Not Reported
Latest owner:	101027	Driller sc:	0
Latest prod:	102276	Latest well:	104008
Site id:	PASI30000055287		

O38
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011271**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401009075341001		
Monloc name:	CH 2222		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1692685
Longitude:	-75.5690786	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	230
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19670718	Welldepth:	89
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
O39 **SSW** **1/2 - 1 Mile** **Lower**	**PA WELLS**	**PASI30000055286**

Dep counter:	0	Siteid:	401009075341001
Transactio:	1	Local welln:	CH 2222
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	89
Elevation:	230		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	10/04/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1691666667		
Longitude dd:	-75.5694444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	07/18/1967	Pagwis id:	12098
Source site:	1	Local permit:	Not Reported
Latest owner:	12163	Driller sc:	0
Latest prod:	8666	Latest well:	12098
Site id:	PASI30000055286		

	Database	EDR ID Number
P40 **NNW** **1/2 - 1 Mile** **Higher**	**PA WELLS**	**PASI30000058546**

Dep counter:	0	Siteid:	401122075335901
Transactio:	1	Local welln:	CH 143
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLTOP	Well depth:	443
Elevation:	320		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	12/06/1976
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1894444444		
Longitude dd:	-75.5663888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1914	Pagwis id:	12217
Source site:	1	Local permit:	Not Reported
Latest owner:	12281	Driller sc:	0
Latest prod:	8752	Latest well:	12217

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Site id: PASI30000058546

P41
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40001012100**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401122075335901		
Monloc name:	CH 143		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1895456
Longitude:	-75.5660206	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	320
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1914	Welldepth:	443
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1948-10-09	171.00	

Q42
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40001012068**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401119075341001		
Monloc name:	CH 146		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1887122
Longitude:	-75.5690764	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	345
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		

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Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	400
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

Q43
NNW
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058439**

Dep counter:	0	Siteid:	401119075341001
Transactio:	1	Local welln:	CH 146
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLTOP	Well depth:	400
Elevation:	350		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	12/06/1976
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1886111111		
Longitude dd:	-75.5694444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1973	Pagwis id:	12213
Source site:	1	Local permit:	Not Reported
Latest owner:	12277	Driller sc:	0
Latest prod:	0	Latest well:	12213
Site id:	PASI30000058439		

M44
SW
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058815**

Well ID:	X 2638		
Owner's Name:	DOLNY RICHARD	County	CHESTER
Latitude:	401017	Longitude:	753425
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	Not Reported
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	140	Finish:	OPEN HOLE
Casing 1:	55	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-00
Static Water Level:	37	Production WL:	Not Reported
Yield (gpm):	100	Yield Measurement Method:	5
Drawdown:	103	Test Time:	Not Reported
Bedrock:	7	Driller:	0188
Water Bearing Zone 1:	60	Water Bearing Zone 2:	95
Water Bearing Zone 3:	110	Lithology:	Not Reported
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

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Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
M45 **SW** **1/2 - 1 Mile** **Lower**	**PA WELLS**	**PASI30000055659**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 2638
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	Not Reported	Well depth:	140
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1713888889		
Longitude dd:	-75.5736111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	7
Bedrock not:	0	Saltwaterz:	0
Date drilled:	06/01/1986	Pagwis id:	103379
Source site:	2	Local permit:	Not Reported
Latest owner:	102665	Driller sc:	0
Latest prod:	103908	Latest well:	105632
Site id:	PASI30000055659		

	Database	EDR ID Number
O46 **SSW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40001011239**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401007075341201		
Monloc name:	CH 3663		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.168713
Longitude:	-75.5696343	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	218
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	19880808	Welldepth:	300
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1989-07-18	0	

O47
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055208**

Dep counter:	0	Siteid:	401007075341201
Transactio:	1	Local welln:	CH 3663
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	300
Elevation:	220		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	5	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/01/1994
Date updated:	02/01/1994		
Data Reliability:	NOT FLD CHECKED, RPRTING AGENCY CONSIDERS IT OK (DEP WSM, WWI web)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1686111111		
Longitude dd:	-75.57		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	08/08/1988	Pagwis id:	12613
Source site:	1	Local permit:	Not Reported
Latest owner:	12682	Driller sc:	0
Latest prod:	8989	Latest well:	12613
Site id:	PASI30000055208		

N48
North
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058679**

Dep counter:	425	Siteid:	Not Reported
Transactio:	0	Local welln:	Not Reported
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	1
Topography:	Not Reported	Well depth:	804
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	Not Reported	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	08/08/1986
Date updated:	01/28/1993		
Data Reliability:	Not Reported		
Source Depth Data:	Not Reported		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1903		
Longitude dd:	-75.5642		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1940	Pagwis id:	214937
Source site:	5	Local permit:	Not Reported
Latest owner:	213907	Driller sc:	0
Latest prod:	212661	Latest well:	216325
Site id:	PASI30000058679		

Agency Use Information:

Counterlink:	425	Transaction counter:	1
Agency use of sitecode:	OBSERVATION		
Agency usedate:	Not Reported		

Construction Information:

Recnum flag:	1	Counterlink:	425
Conscounter:	2707	Transaction counter:	1
Recnum consubrec:	1	Parent seqnum conssubrec:	Not Reported
Construction date:	Not Reported		
Driller:	1		
Source Cons Data:	OTHER/UNKNOWN/UNSPECIFIED		
Method Cons:	CABLE TOOL		
Finish:	OPEN HOLE		
Drillers well id:	Not Reported		
Interimwell id:	Not Reported	Abandonmentreasoncode:	Not Reported
Construction code:	Not Reported	Original driller:	Not Reported
Original driller name:	Not Reported		

Geohydrologic Information:

Counterlink:	425	Transaction counter:	1
Seqnum geohsubrec:	1	Parent seqnum aqfrsubrec:	1
Aapg code:	374LSVL	Top of interval:	Not Reported
Lithology:	DOLOMITE		
Contributing Unit:	PRIMARY		
Bottom of interval:	Not Reported		

Site Water Use Information:

Counterlink:	425	Transaction counter:	1
Site Use:	WITHDRAWAL		
Water Use:	RECREATION		
Date of use:	Not Reported	Note:	Not Reported
Site waterid:	425		

Production Information:

Counterlink:	425	Transaction counter:	1
Prod seqnum:	1		
Discharge Type:	PUMPED		
Data Source:	Not Reported		
Discharge Meas Method:	Not Reported		
Discharge:	89	Swl:	10
W L Data Source:	S		
W L Meas Method:	REPORTED, METHOD NOT KNOWN		
Prodwl:	152	Drawdown:	142

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Speccap:	.629999995	Test length:	24
Site Status W L Meas:	Not Reported		
Date discharged:	02/01/1965		
Conslink:	Not Reported	Production id:	1863
Owner Information:			
Counterlink:	425	Transaction counter:	1
Seqnum owner subrec:	1	Owner:	MOUNT PENN BOROUGH M
Zipcode:	Not Reported	Owner firstname:	Not Reported
Date ownership:	01/01/1965	Conslink:	2707
Owner id:	2216		

R49
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011914**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401107075343201		
Monloc name:	CH 4769		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1853788
Longitude:	-75.5751883	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	247
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	19940630	Welldepth:	237
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1995-08-16	60.05	

Note: The site had been pumped recently.

R50
NW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057978**

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Dep counter:	0	Siteid:	401107075343201
Transactio:	3	Local wellN:	CH 4769
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	Not Reported	Well depth:	237
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	02040203
Latlong acc:	Not Reported	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	09/06/1995
Date updated:	12/17/1997		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1852777778		
Longitude dd:	-75.5755555556		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	06/30/1994	Pagwis id:	43463
Source site:	1	Local permit:	Not Reported
Latest owner:	43135	Driller sc:	0
Latest prod:	0	Latest well:	43463
Site id:	PASI30000057978		

O51
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011232**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401006075341101		
Monloc name:	CH 3664		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1684352
Longitude:	-75.5693565	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	218
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	198708	Welldepth:	205
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
O52 **SSW** **1/2 - 1 Mile** **Lower**	**PA WELLS**	**PASI30000055159**

Dep counter:	0	Siteid:	401006075341101
Transactio:	1	Local welln:	CH 3664
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	205
Elevation:	220		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	5	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	01/10/1990
Date updated:	01/10/1990		
Data Reliability:	NOT FLD CHECKED, RPRTING AGENCY CONSIDERS IT OK (DEP WSM, WWI web)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1683333333		
Longitude dd:	-75.5697222222		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	08/01/1987	Pagwis id:	12092
Source site:	1	Local permit:	Not Reported
Latest owner:	12157	Driller sc:	0
Latest prod:	0	Latest well:	12092
Site id:	PASI30000055159		

	Database	EDR ID Number
S53 **NNW** **1/2 - 1 Mile** **Higher**	**PA WELLS**	**PASI30000058629**

Dep counter:	424	Siteid:	Not Reported
Transactio:	0	Local welln:	Not Reported
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	1
Topography:	Not Reported	Well depth:	400
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	Not Reported	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	06/29/1988
Date updated:	03/03/1990		
Data Reliability:	Not Reported		
Source Depth Data:	Not Reported		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.19		
Longitude dd:	-75.5678		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	09/01/1987	Pagwis id:	214936
Source site:	5	Local permit:	Not Reported
Latest owner:	213906	Driller sc:	0
Latest prod:	212660	Latest well:	216324

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Site id: PASI30000058629

Agency Use Information:

Counterlink:	424	Transaction counter:	1
Agency use of sitecode:	OBSERVATION		
Agency usedate:	Not Reported		

Construction Information:

Recnum flag:	1	Counterlink:	424
Conscounter:	2706	Transaction counter:	1
Recnum consubrec:	1	Parent seqnum conssubrec:	Not Reported
Construction date:	03/26/1966		
Driller:	0561		
Source Cons Data:	OTHER/UNKNOWN/UNSPECIFIED		
Method Cons:	CABLE TOOL		
Finish:	PERFORATED OR SLOTTED		
Drillers well id:	Not Reported		
Interimwell id:	Not Reported	Abandonmentreasoncode:	Not Reported
Construction code:	Not Reported	Original driller:	Not Reported
Original driller name:	Not Reported		

Geohydrologic Information:

Counterlink:	424	Transaction counter:	1
Seqnum geohsubrec:	1	Parent seqnum aqfrsubrec:	1
Aapg code:	374LSVL	Top of interval:	Not Reported
Lithology:	DOLOMITE		
Contributing Unit:	PRIMARY		
Bottom of interval:	Not Reported		

Site Water Use Information:

Counterlink:	424	Transaction counter:	1
Site Use:	WITHDRAWAL		
Water Use:	PUBLIC SUPPLY		
Date of use:	Not Reported	Note:	Not Reported
Site waterid:	424		

Production Information:

Counterlink:	424	Transaction counter:	1
Prod seqnum:	1		
Discharge Type:	PUMPED		
Data Source:	Not Reported		
Discharge Meas Method:	Not Reported		
Discharge:	300	Swl:	35
W L Data Source:	S		
W L Meas Method:	REPORTED, METHOD NOT KNOWN		
Prodwl:	85	Drawdown:	50
Speccap:	6	Test length:	24
Site Status W L Meas:	Not Reported		
Date discharged:	03/26/1966		
Conslink:	2706	Production id:	1862

Owner Information:

Counterlink:	424	Transaction counter:	1
Seqnum owner subrec:	1	Owner:	MOUNT PENN BOROUGH MUNICIPAL AUTH
Zipcode:	Not Reported	Owner firstname:	Not Reported
Date ownership:	12/31/1966	Conslink:	2706
Owner id:	2215		

Other Id Information:			
Counterlink:	424	Transaction counter:	1
Seqnum otherid subrec:	2	Other identifier:	D-66-124 CP
Other id assignor:	DRBC		
Other Id Information:			
Counterlink:	424	Transaction counter:	1
Seqnum otherid subrec:	3	Other identifier:	6
Other id assignor:	OWNER PA		

T54
SW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055242**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local wellN:	5589N
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	150
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1688888889		
Longitude dd:	-75.5716666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	04/24/1978	Pagwis id:	103231
Source site:	2	Local permit:	Not Reported
Latest owner:	102517	Driller sc:	0
Latest prod:	103760	Latest well:	105485
Site id:	PASI30000055242		

T55
SW
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058667**

Well ID:	5589N		
Owner's Name:	WALLEIGH C	County	CHESTER
Latitude:	401008	Longitude:	753418
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	02040203	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	150	Finish:	Not Reported
Casing 1:	53	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

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Grouted:	Not Reported	Date Drilled:	4-24-78
Static Water Level:	Not Reported	Production WL:	58
Yield (gpm):	12	Yield Measurement Method:	V
Drawdown:	Not Reported	Test Time:	1.75
Bedrock:	Not Reported	Driller:	72
Water Bearing Zone 1:	86	Water Bearing Zone 2:	138
Water Bearing Zone 3:	Not Reported	Lithology:	SANDSTONE
Municipality:	EAST VINCENT	Remark:	RT=DARK RED SS
Aquifer:	BRUNSWICK FORMATION		

S56
NNW
1/2 - 1 Mile
Higher

PA WELLS **PASI30000058671**

Dep counter:	0	Siteid:	401125075340501
Transactio:	1	Local welln:	CH 144
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLTOP	Well depth:	421
Elevation:	320		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1902777778		
Longitude dd:	-75.5680555556		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1914	Pagwis id:	12223
Source site:	1	Local permit:	Not Reported
Latest owner:	12287	Driller sc:	0
Latest prod:	8757	Latest well:	12223
Site id:	PASI30000058671		

S57
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40001012126**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401125075340501		
Monloc name:	CH 144		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1903789
Longitude:	-75.5676873	Sourcemap scale:	24000

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Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	320
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1914	Welldepth:	421
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1956-01-23	115.00	

U58
East
1/2 - 1 Mile
Lower

FED USGS **USGS40001011720**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401052075325001		
Monloc name:	CH 150		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1812131
Longitude:	-75.5468537	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	100
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	1954	Welldepth:	260
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1956-05-01	30.00	

U59
East
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057194**

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Dep counter:	0	Siteid:	401052075325001
Transactio:	1	Local welln:	CH 150
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	260
Elevation:	100		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1811111111		
Longitude dd:	-75.5472222222		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1954	Pagwis id:	12161
Source site:	1	Local permit:	Not Reported
Latest owner:	12226	Driller sc:	0
Latest prod:	8716	Latest well:	12161
Site id:	PASI30000057194		

U60
East
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057088**

Dep counter:	463	Siteid:	Not Reported
Transactio:	0	Local welln:	Not Reported
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	1
Topography:	Not Reported	Well depth:	0
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	Not Reported	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	12/06/1976
Date updated:	06/28/1994		
Data Reliability:	Not Reported		
Source Depth Data:	Not Reported		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1808		
Longitude dd:	-75.5469		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	10/07/1996	Pagwis id:	214968
Source site:	5	Local permit:	Not Reported
Latest owner:	213938	Driller sc:	0
Latest prod:	212691	Latest well:	216356

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Site id:	PASI30000057088		
Agency Use Information:			
Counterlink:	463	Transaction counter:	1
Agency use of sitecode:	OBSERVATION		
Agency usedate:	Not Reported		
Construction Information:			
Recnum flag:	1	Counterlink:	463
Conscounter:	2744	Transaction counter:	1
Recnum consubrec:	1	Parent seqnum conssubrec:	Not Reported
Construction date:	01/01/1967		
Driller:	1		
Source Cons Data:	OTHER/UNKNOWN/UNSPECIFIED		
Method Cons:	AIR ROTARY		
Finish:	OPEN HOLE		
Drillers well id:	Not Reported		
Interimwell id:	Not Reported	Abandonmentreasoncode:	Not Reported
Construction code:	Not Reported	Original driller:	Not Reported
Original driller name:	Not Reported		
Geohydrologic Information:			
Counterlink:	463	Transaction counter:	1
Seqnum geohsubrec:	1	Parent seqnum aqfrsubrec:	1
Aapg code:	374LSVL	Top of interval:	Not Reported
Lithology:	DOLOMITE		
Contributing Unit:	PRIMARY		
Bottom of interval:	Not Reported		
Site Water Use Information:			
Counterlink:	463	Transaction counter:	1
Site Use:	WITHDRAWAL		
Water Use:	PUBLIC SUPPLY		
Date of use:	Not Reported	Note:	Not Reported
Site waterid:	463		
Production Information:			
Counterlink:	463	Transaction counter:	1
Prod seqnum:	1		
Discharge Type:	PUMPED		
Data Source:	Not Reported		
Discharge Meas Method:	Not Reported		
Discharge:	1000	Swl:	63
W L Data Source:	S		
W L Meas Method:	REPORTED, METHOD NOT KNOWN		
Prodwl:	85	Drawdown:	22
Speccap:	45.4000015	Test length:	43
Site Status W L Meas:	Not Reported		
Date discharged:	01/01/1978		
Conslink:	Not Reported	Production id:	1892
Owner Information:			
Counterlink:	463	Transaction counter:	1
Seqnum owner subrec:	1	Owner:	MOUNT PENN BOROUGH M
Zipcode:	Not Reported	Owner firstname:	Not Reported
Date ownership:	01/01/1967	Conslink:	2744
Owner id:	2254		

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Map ID / Direction / Distance / Elevation		Database	EDR ID Number
V61 **WNW** **1/2 - 1 Mile** **Lower**		**PA WELLS**	**PASI30000057622**

Dep counter:	0	Siteid:	401100075344301
Transactio:	1	Local welln:	CH 1563
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	115
Elevation:	260		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	10/04/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1833333333		
Longitude dd:	-75.5786111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	06/22/1967	Pagwis id:	12178
Source site:	1	Local permit:	Not Reported
Latest owner:	12242	Driller sc:	0
Latest prod:	8728	Latest well:	12178
Site id:	PASI30000057622		

V62 **WNW** **1/2 - 1 Mile** **Lower**		**FED USGS**	**USGS40001011831**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401100075344301		
Monloc name:	CH 1563		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1834344
Longitude:	-75.5782443	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	260
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		

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Aquifer type:	Not Reported		
Construction date:	19670622	Welldepth:	115
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

U63
ENE
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057288**

Dep counter:	0	Siteid:	401054075324801
Transactio:	1	Local welln:	CH 148
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	180
Elevation:	100		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	10/04/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1816666667		
Longitude dd:	-75.5466666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1905	Pagwis id:	12164
Source site:	1	Local permit:	Not Reported
Latest owner:	12229	Driller sc:	0
Latest prod:	8719	Latest well:	12164
Site id:	PASI30000057288		

U64
ENE
1/2 - 1 Mile
Lower

FED USGS **USGS40001011750**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401054075324801		
Monloc name:	CH 148		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1817686
Longitude:	-75.546298	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	100
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	1905	Welldepth:	180
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

U65
East
1/2 - 1 Mile
Lower

PA WELLS **PASI30000057137**

Dep counter:	0	Siteid:	401051075324701
Transactio:	1	Local welln:	CH 149
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	VALLEY FLAT	Well depth:	230
Elevation:	100		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1808333333		
Longitude dd:	-75.5463888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1949	Pagwis id:	12160
Source site:	1	Local permit:	Not Reported
Latest owner:	12225	Driller sc:	0
Latest prod:	8715	Latest well:	12160
Site id:	PASI30000057137		

U66
East
1/2 - 1 Mile
Lower

FED USGS **USGS40001011709**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401051075324701		
Monloc name:	CH 149		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1809353
Longitude:	-75.5460203	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	100
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	1949	Welldepth:	230
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1956-05-01	30.00	

W67
North
1/2 - 1 Mile
Lower

FED USGS **USGS40001012188**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401130075335001		
Monloc name:	CH 142		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1917678
Longitude:	-75.5635202	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	235
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	192803	Welldepth:	529
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1954	190.00	

W68
North
1/2 - 1 Mile
Lower

PA WELLS **PASI30000058885**

Dep counter:	0	Siteid:	401130075335001
Transactio:	1	Local welln:	CH 142
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	529
Elevation:	240		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		

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Latitude dd:	40.1916666667		
Longitude dd:	-75.5638888889		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	03/01/1928	Pagwis id:	12233
Source site:	1	Local permit:	Not Reported
Latest owner:	12297	Driller sc:	0
Latest prod:	8763	Latest well:	12233
Site id:	PASI30000058885		

X69
SSE
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055003**

Dep counter:	0	Siteid:	Not Reported
Transactio:	0	Local welln:	X 0231
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	FLAT SURFACE	Well depth:	123
Elevation:	0		
Elev method:	Not Reported		
Accuracy of elev:	Not Reported	Hydrologic:	Not Reported
Latlong acc:	ACCURATE TO +1 MINUTE	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	02/03/1999
Date updated:	02/04/1999		
Data Reliability:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
Source Depth Data:	DRILLER'S RECORD		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1672222222		
Longitude dd:	-75.5544444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	46
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1967	Pagwis id:	103307
Source site:	2	Local permit:	Not Reported
Latest owner:	102593	Driller sc:	0
Latest prod:	103836	Latest well:	105560
Site id:	PASI30000055003		

X70
SSE
1/2 - 1 Mile
Lower

PA WELLS **SPAW0058743**

Well ID:	X 0231		
Owner's Name:	VAUGHAN CHAS	County	CHESTER
Latitude:	401002	Longitude:	753316
Quadrangle:	PHOENIXVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	FLAT SURFACE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	123	Finish:	OTHER
Casing 1:	48	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported

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Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	Not Reported	Production WL:	Not Reported
Yield (gpm):	22	Yield Measurement Method:	Not Reported
Drawdown:	Not Reported	Test Time:	Not Reported
Bedrock:	46	Driller:	0072
Water Bearing Zone 1:	97	Water Bearing Zone 2:	118
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST VINCENT	Remark:	1741
Aquifer:	BRUNSWICK FORMATION		

Y71
SSW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000054895**

Dep counter:	0	Siteid:	400959075341001
Transactio:	1	Local welln:	CH 3174
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	205
Elevation:	230		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/06/1987
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	WELL OWNER		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1663888889		
Longitude dd:	-75.5694444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	06/02/1978	Pagwis id:	12082
Source site:	1	Local permit:	Not Reported
Latest owner:	12145	Driller sc:	0
Latest prod:	35894	Latest well:	12082
Site id:	PASI30000054895		

Y72
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40001011160**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-400959075341001		
Monloc name:	CH 3174		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1664908
Longitude:	-75.569079	Sourcemap scale:	24000

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Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	230
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	205
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1987-10-02	9.0	

Z73
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40001012176**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401129075340901		
Monloc name:	CH 181		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1914899
Longitude:	-75.5687983	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	275
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	19630524	Welldepth:	700
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1963-05-24	132.00	

Z74
NNW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000058852**

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Dep counter:	0	Siteid:	401129075340901
Transactio:	1	Local welln:	CH 181
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	700
Elevation:	280		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	06/28/1994		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1913888889		
Longitude dd:	-75.5691666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	05/24/1963	Pagwis id:	12931
Source site:	1	Local permit:	Not Reported
Latest owner:	13036	Driller sc:	0
Latest prod:	9195	Latest well:	12931
Site id:	PASI30000058852		

AA75
North
1/2 - 1 Mile
Lower

PA WELLS **PASI30000058983**

Dep counter:	0	Siteid:	401133075334301
Transactio:	1	Local welln:	CH 141
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	327
Elevation:	250		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	11/17/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.1925		
Longitude dd:	-75.5619444444		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	01/01/1913	Pagwis id:	12238
Source site:	1	Local permit:	Not Reported
Latest owner:	12302	Driller sc:	0
Latest prod:	8768	Latest well:	12238

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Site id: PASI30000058983

AA76
North
1/2 - 1 Mile
Lower

FED USGS **USGS40001012221**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401133075334301		
Monloc name:	CH 141		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1926012
Longitude:	-75.5615755	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	250
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		
Aquifer type:	Not Reported		
Construction date:	1913	Welldepth:	327
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1948	52.00	

AB77
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40001012116**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401124075342501		
Monloc name:	CH 3163		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1901009
Longitude:	-75.5732432	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	225
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Brunswick Formation		

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Aquifer type:	Not Reported		
Construction date:	198709	Welldepth:	122
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1988-01-21	54.12	

AB78
NW
1/2 - 1 Mile
Lower

PA WELLS **PASI30000058628**

Dep counter:	0	Siteid:	401124075342501
Transactio:	1	Local welln:	CH 3163
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	122
Elevation:	220		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	20	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +5 SECONDS	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	06/29/1988
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	WELL OWNER		
Municipality:	EAST VINCENT TWP.		
Latitude dd:	40.19		
Longitude dd:	-75.5736111111		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	09/01/1987	Pagwis id:	12220
Source site:	1	Local permit:	Not Reported
Latest owner:	12284	Driller sc:	0
Latest prod:	35975	Latest well:	12220
Site id:	PASI30000058628		

AC79
ESE
1/2 - 1 Mile
Lower

FED USGS **USGS40001011377**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-401019075324801		
Monloc name:	CH 1562		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.1720468
Longitude:	-75.5462991	Sourcemap scale:	24000

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Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	258
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Early Mesozoic basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19670717	Welldepth:	95
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AC80
ESE
1/2 - 1 Mile
Lower

PA WELLS **PASI30000055731**

Dep counter:	0	Siteid:	401019075324801
Transactio:	1	Local welln:	CH 1562
County:	CHESTER	Latitude:	Not Reported
Longitude:	Not Reported	Aapg code:	231BRCK
Topography:	HILLSIDE	Well depth:	95
Elevation:	260		
Elev method:	INTERPOLATED FROM TOPOGRAPHIC MAP		
Accuracy of elev:	10	Hydrologic:	02040203
Latlong acc:	ACCURATE TO +1 SECOND	Quad code:	PHOENIXVILLE
Type of site:	WELL	Date created:	10/04/1978
Date updated:	03/03/1990		
Data Reliability:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
Source Depth Data:	OTHER/UNKNOWN/UNSPECIFIED		
Municipality:	SPRING CITY BORO		
Latitude dd:	40.1719444444		
Longitude dd:	-75.5466666667		
Well addres:	Not Reported		
Well zipcode:	Not Reported	Depth to bedrock:	0
Bedrock not:	0	Saltwaterz:	0
Date drilled:	07/17/1967	Pagwis id:	12107
Source site:	1	Local permit:	Not Reported
Latest owner:	12172	Driller sc:	0
Latest prod:	8675	Latest well:	12107
Site id:	PASI30000055731		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: PA Radon

Radon Test Results

Zipcode	Num Tests	Min pCi/L	Max pCi/L	Avg pCi/L
19475	1030	0.1	187.3	6.9

EPA Region 3 Statistical Summary Readings for Zip Code: 19475

Number of sites tested: 248.

Maximum Radon Level: 93.4 pCi/L.
Minimum Radon Level: 0.4 pCi/L.

pCi/L <4	pCi/L 4-10	pCi/L 10-20	pCi/L 20-50	pCi/L 50-100	pCi/L >100
139 (56.05%)	68 (27.42%)	29 (11.69%)	5 (2.02%)	7 (2.82%)	0 (0.00%)

Federal EPA Radon Zone for CHESTER County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

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PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

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

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

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PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Pennsylvania Public Water Supply Wells
Source: Pennsylvania Department of Environmental Resources Bureau of Water Supply
Telephone: 717-787-5017

Pennsylvania Groundwater Information System
Source: Department of Conservation and Natural Resources
Telephone: 717-702-2045

OTHER STATE DATABASE INFORMATION

Pennsylvania Oil and Gas Locations
Source: Pennsylvania Department of Environmental Protection
Telephone: 814-863-0104
An Oil and Gas Location is a DEP primary facility type related to the Oil & Gas Program. The sub-facility types related to Oil and Gas that are included in this layer are:Land Application -- An area where drilling cuttings or waste are disposed by land application; Well-- A well associated with oil and/or gas production; Pit -- An approved pit that is used for storage of oil and gas well fluids.Some sub facility types are not included in this layer due to security policies.

RADON

State Database: PA Radon
Source: Department of Environmental Protection
Telephone: 717-783-3594
Radon Test Results Statistics by Zip Code

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

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APPENDIX D

SOIL BORING/MONITORING WELL LOGS

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-1

PROJECT nO: BLAIR-01	DATE: 6/4/13	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: KEYES well drilling	
PROJECT LOCATION: Former Blairs Auto, 3575 Schuylkill Road, Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10			0	no petroleum odor
20	- same lithology		0	no petroleum odor
30	competent shale bedrock at 33'		0	well consruction:
	end boring @ 35 feet.			35 feet total well depth surface flush manhole 4 inch diameter 10 feet solid casing 25 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-2

PROJECT nO: BLAIR-01	DATE: 6/4/13	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: KEYES well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10			0	no petroleum odor
20	- same lithology		0	no petroleum odor
30	competent shale bedrock at 33"		0	well consruction: 35 feet total well depth surface flush manhole 4 inch diameter 10 feet solid casing 25 feet 0.02" screen
----	end boring @ 35 feet.			
40				
50				
60				
70				
80				
90				
100				

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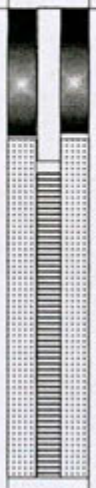
COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-3

PROJECT nO: BLAIR-01	DATE: 6/18/13	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: KEYES well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10			0	no petroleum odor
20	- same lithology		7	no petroleum odor
30	end boring @ 31 feet.		0	well consruction: 31 feet total well depth surface flush manhole 4 inch diameter 11 feet solid casing 20 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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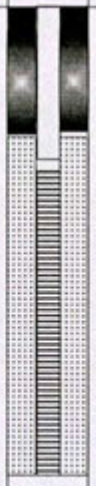
COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-4

PROJECT nO: BLAIR-01	DATE: 7/2/13	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: KEYES well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10			18	slight petroleum odor
20	- same lithology		10	no petroleum odor
30	end boring @ 30 feet.		0	well consruction: 30 feet total well depth surface flush manhole 4 inch diameter 12 feet solid casing 18 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-5

PROJECT nO: BLAIR-01	DATE: 8/21/13	DRILLING METHOD:	hollow stem auger
PROJECT TITLE: Blair		DRILLING COMPANY:	Earthcore well drilling
PROJECT LOCATION: Former Blairs Auto, 3575 Schuylkill Road, Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10	- same lithology		0	no petroleum odor
20	- bedrock, shale, @ 22 feet		0	no petroleum odor
	- end boring @ 25 feet.			
30				well consruction: 25 feet total well depth surface flush manhole 4 inch diameter 10 feet solid casing 15 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-6

PROJECT no: BLAIR-01	DATE: 8/22/13	DRILLING METHOD:	hollow stem auger
PROJECT TITLE: Blair		DRILLING COMPANY:	Earthcore well drilling
PROJECT LOCATION: Former Blairs Auto, 3575 Schuylkill Road, Spring City, PA		BOREHOLE DIAMETER (IN): 6	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10	- same lithology		0	no petroleum odor
20	- bedrock, shale, @ 22 feet		0	no petroleum odor
30	- end boring @ 30 feet.			well consruction: 30 feet total well depth surface flush manhole 2 inch diameter 10 feet solid casing 20 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-7

PROJECT nO: BLAIR-01	DATE: 1/9/14	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: CS Garber well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, cold	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10				
20	- same lithology		17	slight petroleum odor
	competent shale bedrock at 23"		0	no petroleum odor
30			0	
----	end boring @ 35 feet.			well consruction: 35 feet total well depth surface flush manhole 4 inch diameter 15 feet solid casing 20 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-8

PROJECT nO: BLAIR-01	DATE: 1/9/14	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: CS Garber well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, cold	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10				
20	- same lithology		0	no petroleum odor
	competent shale bedrock at 22"		0	no petroleum odor
30			0	
----	end boring @ 35 feet.			well consruction: 35 feet total well depth surface flush manhole 4 inch diameter 15 feet solid casing 20 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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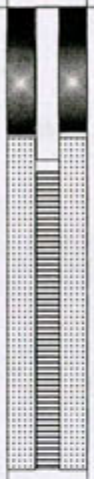
COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-9

PROJECT no: BLAIR-01	DATE: 4/22/14	DRILLING METHOD: Air Rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: CS Garber well drilling	
PROJECT LOCATION: Former Blairs Auto, 3575 Schuylkill Road, Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10				
	- bedrock, shale, @ 16 feet, reddish brown		14	no petroleum odor
20			0	no petroleum odor
30	- end boring @ 30 feet.			well consruction: 30 feet total well depth surface flush manhole 4 inch diameter 10 feet solid casing 20 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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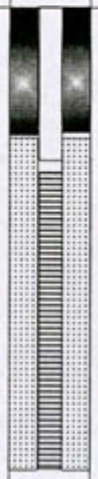
COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-10

PROJECT no: BLAIR-01	DATE: 4/22/14	DRILLING METHOD: Air Rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: CS Garber well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10				
20	- bedrock, shale, @ 18 feet, reddish brown		0	no petroleum odor
30	- end boring @ 30 feet.		0	no petroleum odor
40				well consruction: 30 feet total well depth surface flush manhole 4 inch diameter 10 feet solid casing 20 feet 0.02" screen
50				
60				
70				
80				
90				
100				

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COVENTRY ENVIRONMENTAL ASSOCIATES, INC.

DRILLING LOG

BORING NO: mw-11

PROJECT nO: BLAIR-01	DATE: 7/23/14	DRILLING METHOD: air rotary	
PROJECT TITLE: Blair		DRILLING COMPANY: CS Garber well drilling	
PROJECT LOCATION: Former Blairs Auto 3575 Schuylkill Road Spring City, PA		BOREHOLE DIAMETER (IN): 8	WATER LEVEL (FT):
		WEATHER CONDITIONS: dry, warm	LOGGED BY: jvw

DEPTH (FT)	LITHOLOGIC DESCRIPTION	well design	PID	COMMENTS
0	reddish brown silty clay and highly weathered shale		0	no petroleum odor
10	- same lithology		0	no petroleum odor
20	- bedrock, shale, @ 22 feet		0	no petroleum odor
	- end boring @ 25 feet.			
30				well consruction: 25 feet total well depth surface flush manhole 4 inch diameter 5 feet solid casing 20 feet 0.02" screen
40				
50				
60				
70				
80				
90				
100				

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APPENDIX E

LABORATORY ANALYTICAL DATA SHEETS

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ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

SAMPLE SUMMARY

Workorder: 1037571 BLAIR Discard Date: 08/07/2013

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1037571001	MW-1	Ground Water	7/17/13 00:00	7/17/13 20:25	John VanWagenen
1037571002	MW-2	Ground Water	7/17/13 00:00	7/17/13 20:25	John VanWagenen
1037571003	MW-3	Ground Water	7/17/13 00:00	7/17/13 20:25	John VanWagenen
1037571004	MW-4	Ground Water	7/17/13 00:00	7/17/13 20:25	John VanWagenen

Workorder Comments:

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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(ALS) Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1037571 BLAIR

Lab ID: **1037571001** Date Collected: 7/17/2013 00:00 Matrix: Ground Water

Sample ID: **MW-1** Date Received: 7/17/2013 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:18	TMP	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:18	TMP	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:18	TMP	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			7/23/13 18:18	TMP	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			7/23/13 18:18	TMP	B
Toluene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:18	TMP	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			7/23/13 18:18	TMP	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:18	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:18	TMP	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	85.4		%	62-133	SW846 8260B			7/23/13 18:18	TMP	B
4-Bromofluorobenzene (S)	102		%	79-114	SW846 8260B			7/23/13 18:18	TMP	B
Dibromofluoromethane (S)	80.9		%	78-116	SW846 8260B			7/23/13 18:18	TMP	B
Toluene-d8 (S)	104		%	76-127	SW846 8260B			7/23/13 18:18	TMP	B

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1037571 BLAIR

Lab ID: **1037571002** Date Collected: 7/17/2013 00:00 Matrix: Ground Water

Sample ID: **MW-2** Date Received: 7/17/2013 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:35	TMP	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:35	TMP	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:35	TMP	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			7/23/13 18:35	TMP	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			7/23/13 18:35	TMP	B
Toluene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:35	TMP	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			7/23/13 18:35	TMP	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:35	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			7/23/13 18:35	TMP	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	83.4		%	62-133	SW846 8260B			7/23/13 18:35	TMP	B
4-Bromofluorobenzene (S)	99		%	79-114	SW846 8260B			7/23/13 18:35	TMP	B
Dibromofluoromethane (S)	81.1		%	78-116	SW846 8260B			7/23/13 18:35	TMP	B
Toluene-d8 (S)	103		%	76-127	SW846 8260B			7/23/13 18:35	TMP	B

Sample Comments:

Denise Brooks

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1037571 BLAIR

Lab ID: **1037571003** Date Collected: 7/17/2013 00:00 Matrix: Ground Water
Sample ID: **MW-3** Date Received: 7/17/2013 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	92.9		ug/L	1.0	SW846 8260B			7/23/13 18:52	TMP	B
Ethylbenzene	102		ug/L	1.0	SW846 8260B			7/23/13 18:52	TMP	B
Isopropylbenzene	11.5		ug/L	1.0	SW846 8260B			7/23/13 18:52	TMP	B
Methyl t-Butyl Ether	3.5		ug/L	1.0	SW846 8260B			7/23/13 18:52	TMP	B
Naphthalene	29.0		ug/L	2.0	SW846 8260B			7/23/13 18:52	TMP	B
Toluene	202		ug/L	10.0	SW846 8260B			7/20/13 10:19	GLQ	A
Total Xylenes	425		ug/L	3.0	SW846 8260B			7/23/13 18:52	TMP	B
1,2,4-Trimethylbenzene	178		ug/L	1.0	SW846 8260B			7/23/13 18:52	TMP	B
1,3,5-Trimethylbenzene	31.8		ug/L	1.0	SW846 8260B			7/23/13 18:52	TMP	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.2		%	62-133	SW846 8260B			7/20/13 10:19	GLQ	A
4-Bromofluorobenzene (S)	116	2	%	79-114	SW846 8260B			7/20/13 10:19	GLQ	A
Dibromofluoromethane (S)	94.8		%	78-116	SW846 8260B			7/20/13 10:19	GLQ	A
Toluene-d8 (S)	110		%	76-127	SW846 8260B			7/20/13 10:19	GLQ	A
1,2-Dichloroethane-d4 (S)	89		%	62-133	SW846 8260B			7/23/13 18:52	TMP	B
4-Bromofluorobenzene (S)	97.5		%	79-114	SW846 8260B			7/23/13 18:52	TMP	B
Dibromofluoromethane (S)	76.3	1	%	78-116	SW846 8260B			7/23/13 18:52	TMP	B
Toluene-d8 (S)	98.2		%	76-127	SW846 8260B			7/23/13 18:52	TMP	B

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1037571 BLAIR

Lab ID: **1037571004** Date Collected: 7/17/2013 00:00 Matrix: Ground Water

Sample ID: **MW-4** Date Received: 7/17/2013 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	5.5		ug/L	5.0	SW846 8260B			7/23/13 19:09	TMP	B
Ethylbenzene	497		ug/L	5.0	SW846 8260B			7/23/13 19:09	TMP	B
Isopropylbenzene	109		ug/L	5.0	SW846 8260B			7/23/13 19:09	TMP	B
Methyl t-Butyl Ether	ND		ug/L	5.0	SW846 8260B			7/23/13 19:09	TMP	B
Naphthalene	185		ug/L	10.0	SW846 8260B			7/23/13 19:09	TMP	B
Toluene	ND		ug/L	5.0	SW846 8260B			7/23/13 19:09	TMP	B
Total Xylenes	1130		ug/L	15.0	SW846 8260B			7/23/13 19:09	TMP	B
1,2,4-Trimethylbenzene	959		ug/L	5.0	SW846 8260B			7/23/13 19:09	TMP	B
1,3,5-Trimethylbenzene	150		ug/L	5.0	SW846 8260B			7/23/13 19:09	TMP	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	84.9		%	62-133	SW846 8260B			7/23/13 19:09	TMP	B
4-Bromofluorobenzene (S)	102		%	79-114	SW846 8260B			7/23/13 19:09	TMP	B
Dibromofluoromethane (S)	76.5	3	%	78-116	SW846 8260B			7/23/13 19:09	TMP	B
Toluene-d8 (S)	101		%	76-127	SW846 8260B			7/23/13 19:09	TMP	B

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 1037571 BLAIR

PARAMETER QUALIFIERS\FLAGS

[1] The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 76.3 and the control limits were 78 to 116. This result was reported at a dilution of 1.

[2] The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 116 and the control limits were 79 to 114. This result was reported at a dilution of 10.

[3] The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 76.5 and the control limits were 78 to 116. This result was reported at a dilution of 5.

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SAMPLE SUMMARY

Workorder: 1040975 BLAIR Discard Date: 08/23/2013

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1040975001	MW-1	Ground Water	8/5/13 00:00	8/6/13 21:20	John VanWagenen
1040975002	MW-2	Ground Water	8/5/13 00:00	8/6/13 21:20	John VanWagenen
1040975003	MW-3	Ground Water	8/5/13 00:00	8/6/13 21:20	John VanWagenen
1040975004	MW-4	Ground Water	8/5/13 00:00	8/6/13 21:20	John VanWagenen

Workorder Comments:

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 1040975 BLAIR

Lab ID: **1040975001** Date Collected: 8/5/2013 00:00 Matrix: Ground Water

Sample ID: **MW-1** Date Received: 8/6/2013 21:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			8/8/13 05:01	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			8/8/13 05:01	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			8/8/13 05:01	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			8/8/13 05:01	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			8/8/13 05:01	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B			8/8/13 05:01	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			8/8/13 05:01	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			8/8/13 05:01	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			8/8/13 05:01	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	90.1		%	62-133	SW846 8260B			8/8/13 05:01	DD	A
4-Bromofluorobenzene (S)	85		%	79-114	SW846 8260B			8/8/13 05:01	DD	A
Dibromofluoromethane (S)	79.3		%	78-116	SW846 8260B			8/8/13 05:01	DD	A
Toluene-d8 (S)	92.7		%	76-127	SW846 8260B			8/8/13 05:01	DD	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1040975 BLAIR

Lab ID: **1040975002** Date Collected: 8/5/2013 00:00 Matrix: Ground Water

Sample ID: **MW-2** Date Received: 8/6/2013 21:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			8/8/13 05:18	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			8/8/13 05:18	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			8/8/13 05:18	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			8/8/13 05:18	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			8/8/13 05:18	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B			8/8/13 05:18	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			8/8/13 05:18	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			8/8/13 05:18	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			8/8/13 05:18	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	93.4		%	62-133	SW846 8260B			8/8/13 05:18	DD	A
4-Bromofluorobenzene (S)	91		%	79-114	SW846 8260B			8/8/13 05:18	DD	A
Dibromofluoromethane (S)	82.1		%	78-116	SW846 8260B			8/8/13 05:18	DD	A
Toluene-d8 (S)	97.3		%	76-127	SW846 8260B			8/8/13 05:18	DD	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1040975 BLAIR

Lab ID: **1040975003** Date Collected: 8/5/2013 00:00 Matrix: Ground Water

Sample ID: **MW-3** Date Received: 8/6/2013 21:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	71.3		ug/L	1.0	SW846 8260B			8/8/13 05:35	DD	A
Ethylbenzene	69.0		ug/L	1.0	SW846 8260B			8/8/13 05:35	DD	A
Isopropylbenzene	11.6		ug/L	1.0	SW846 8260B			8/8/13 05:35	DD	A
Methyl t-Butyl Ether	2.3		ug/L	1.0	SW846 8260B			8/8/13 05:35	DD	A
Naphthalene	27.3		ug/L	2.0	SW846 8260B			8/8/13 05:35	DD	A
Toluene	108		ug/L	1.0	SW846 8260B			8/8/13 05:35	DD	A
Total Xylenes	295		ug/L	3.0	SW846 8260B			8/8/13 05:35	DD	A
1,2,4-Trimethylbenzene	143		ug/L	1.0	SW846 8260B			8/8/13 05:35	DD	A
1,3,5-Trimethylbenzene	24.1		ug/L	1.0	SW846 8260B			8/8/13 05:35	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	94.9		%	62-133	SW846 8260B			8/8/13 05:35	DD	A
4-Bromofluorobenzene (S)	86.7		%	79-114	SW846 8260B			8/8/13 05:35	DD	A
Dibromofluoromethane (S)	77.4	1	%	78-116	SW846 8260B			8/8/13 05:35	DD	A
Toluene-d8 (S)	95.8		%	76-127	SW846 8260B			8/8/13 05:35	DD	A

Sample Comments:

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Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1040975 BLAIR

Lab ID: **1040975004** Date Collected: 8/5/2013 00:00 Matrix: Ground Water

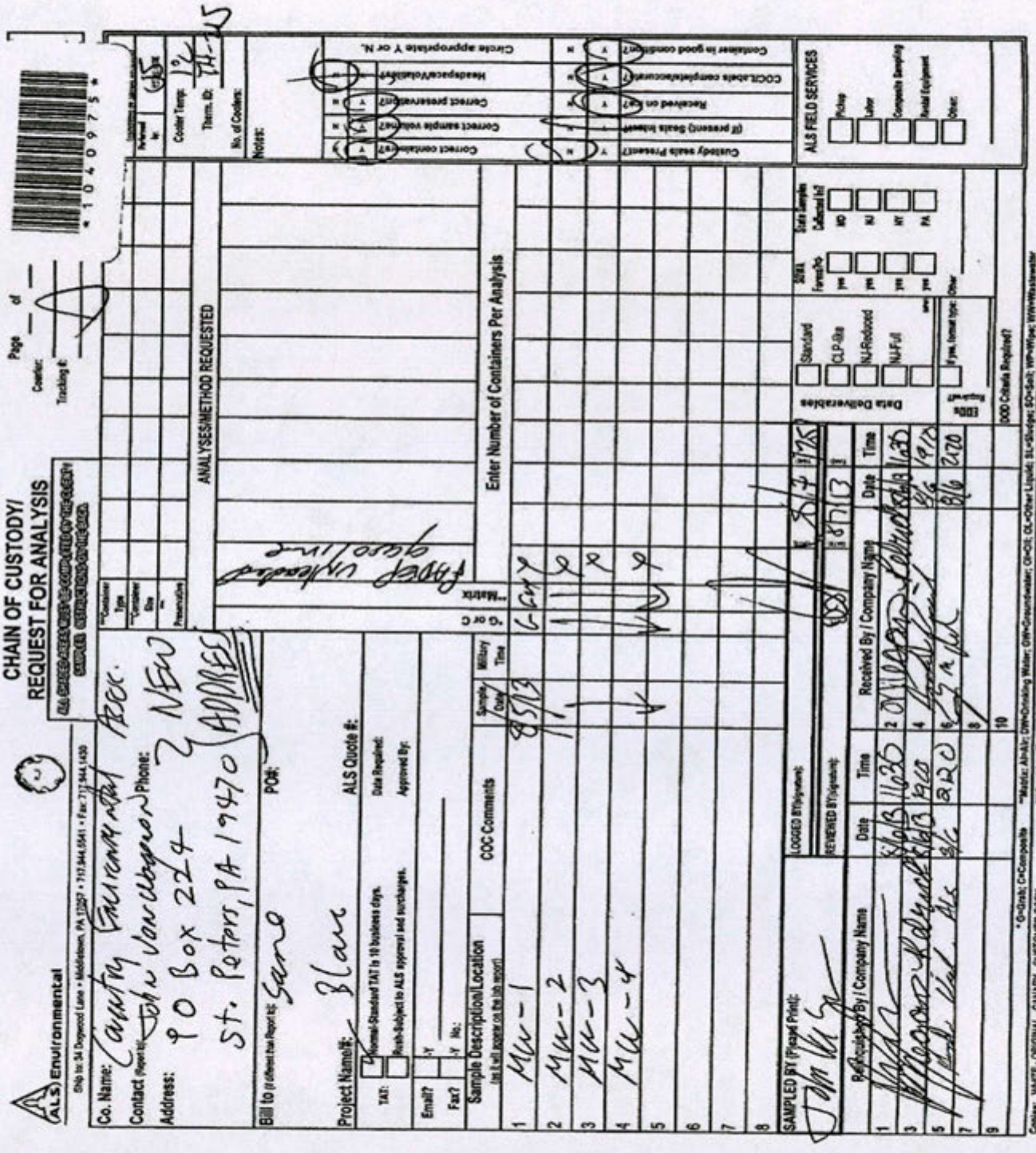
Sample ID: **MW-4** Date Received: 8/6/2013 21:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	6.2		ug/L	1.0	SW846 8260B			8/8/13 05:52	DD	A
Ethylbenzene	349		ug/L	20.0	SW846 8260B			8/8/13 22:47	GLQ	B
Isopropylbenzene	111		ug/L	1.0	SW846 8260B			8/8/13 05:52	DD	A
Methyl t-Butyl Ether	2.1		ug/L	1.0	SW846 8260B			8/8/13 05:52	DD	A
Naphthalene	198		ug/L	2.0	SW846 8260B			8/8/13 05:52	DD	A
Toluene	2.7		ug/L	1.0	SW846 8260B			8/8/13 05:52	DD	A
Total Xylenes	895		ug/L	60.0	SW846 8260B			8/8/13 22:47	GLQ	B
1,2,4-Trimethylbenzene	760		ug/L	20.0	SW846 8260B			8/8/13 22:47	GLQ	B
1,3,5-Trimethylbenzene	145		ug/L	1.0	SW846 8260B			8/8/13 05:52	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	90.8		%	62-133	SW846 8260B			8/8/13 05:52	DD	A
4-Bromofluorobenzene (S)	85.8		%	79-114	SW846 8260B			8/8/13 05:52	DD	A
Dibromofluoromethane (S)	75.8	2	%	78-116	SW846 8260B			8/8/13 05:52	DD	A
Toluene-d8 (S)	97.5		%	76-127	SW846 8260B			8/8/13 05:52	DD	A
1,2-Dichloroethane-d4 (S)	106		%	62-133	SW846 8260B			8/8/13 22:47	GLQ	B
4-Bromofluorobenzene (S)	96.5		%	79-114	SW846 8260B			8/8/13 22:47	GLQ	B
Dibromofluoromethane (S)	90.8		%	78-116	SW846 8260B			8/8/13 22:47	GLQ	B
Toluene-d8 (S)	99.4		%	76-127	SW846 8260B			8/8/13 22:47	GLQ	B

Sample Comments:

Denise Brooks
Project Coordinator

10/21/2014 1:18:24 PM



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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

SAMPLE SUMMARY

Workorder: 1050921 BLAIR Discard Date: 10/24/2013

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1050921001	MW-1	Ground Water	9/27/13 14:00	10/1/13 20:50	John VanWagenen
1050921002	MW-2	Ground Water	9/27/13 14:00	10/1/13 20:50	John VanWagenen
1050921003	MW-3	Ground Water	9/27/13 14:00	10/1/13 20:50	John VanWagenen
1050921004	MW-4	Ground Water	9/27/13 14:00	10/1/13 20:50	John VanWagenen
1050921005	MW-5	Ground Water	9/27/13 14:00	10/1/13 20:50	John VanWagenen
1050921006	MW-6	Ground Water	9/27/13 14:00	10/1/13 20:50	John VanWagenen

Workorder Comments:

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 1050921 BLAIR

Lab ID: **1050921001** Date Collected: 9/27/2013 14:00 Matrix: Ground Water

Sample ID: **MW-1** Date Received: 10/1/2013 20:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:24	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:24	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:24	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			10/8/13 07:24	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			10/8/13 07:24	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:24	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			10/8/13 07:24	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:24	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:24	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	103		%	62-133	SW846 8260B			10/8/13 07:24	DD	A
4-Bromofluorobenzene (S)	104		%	79-114	SW846 8260B			10/8/13 07:24	DD	A
Dibromofluoromethane (S)	116		%	78-116	SW846 8260B			10/8/13 07:24	DD	A
Toluene-d8 (S)	108		%	76-127	SW846 8260B			10/8/13 07:24	DD	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1050921 BLAIR

Lab ID: **1050921002** Date Collected: 9/27/2013 14:00 Matrix: Ground Water

Sample ID: **MW-2** Date Received: 10/1/2013 20:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:42	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:42	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:42	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			10/8/13 07:42	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			10/8/13 07:42	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:42	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			10/8/13 07:42	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:42	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:42	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	103		%	62-133	SW846 8260B			10/8/13 07:42	DD	A
4-Bromofluorobenzene (S)	104		%	79-114	SW846 8260B			10/8/13 07:42	DD	A
Dibromofluoromethane (S)	116		%	78-116	SW846 8260B			10/8/13 07:42	DD	A
Toluene-d8 (S)	108		%	76-127	SW846 8260B			10/8/13 07:42	DD	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1050921 BLAIR

Lab ID: **1050921003** Date Collected: 9/27/2013 14:00 Matrix: Ground Water

Sample ID: **MW-3** Date Received: 10/1/2013 20:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	49.7		ug/L	1.0	SW846 8260B			10/8/13 08:34	DD	A
Ethylbenzene	9.9		ug/L	1.0	SW846 8260B			10/8/13 08:34	DD	A
Isopropylbenzene	9.2		ug/L	1.0	SW846 8260B			10/8/13 08:34	DD	A
Methyl t-Butyl Ether	1.6		ug/L	1.0	SW846 8260B			10/8/13 08:34	DD	A
Naphthalene	9.3		ug/L	2.0	SW846 8260B			10/8/13 08:34	DD	A
Toluene	29.5		ug/L	1.0	SW846 8260B			10/8/13 08:34	DD	A
Total Xylenes	109		ug/L	3.0	SW846 8260B			10/8/13 08:34	DD	A
1,2,4-Trimethylbenzene	87.2		ug/L	1.0	SW846 8260B			10/8/13 08:34	DD	A
1,3,5-Trimethylbenzene	16.8		ug/L	1.0	SW846 8260B			10/8/13 08:34	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	106		%	62-133	SW846 8260B			10/8/13 08:34	DD	A
4-Bromofluorobenzene (S)	104		%	79-114	SW846 8260B			10/8/13 08:34	DD	A
Dibromofluoromethane (S)	110		%	78-116	SW846 8260B			10/8/13 08:34	DD	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B			10/8/13 08:34	DD	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1050921 BLAIR

Lab ID: **1050921004** Date Collected: 9/27/2013 14:00 Matrix: Ground Water

Sample ID: **MW-4** Date Received: 10/1/2013 20:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	6.3		ug/L	1.0	SW846 8260B			10/8/13 08:51	DD	A
Ethylbenzene	275		ug/L	10.0	SW846 8260B			10/9/13 14:22	TMP	B
Isopropylbenzene	104		ug/L	1.0	SW846 8260B			10/8/13 08:51	DD	A
Methyl t-Butyl Ether	5.3		ug/L	1.0	SW846 8260B			10/8/13 08:51	DD	A
Naphthalene	184		ug/L	2.0	SW846 8260B			10/8/13 08:51	DD	A
Toluene	1.7		ug/L	1.0	SW846 8260B			10/8/13 08:51	DD	A
Total Xylenes	524		ug/L	30.0	SW846 8260B			10/9/13 14:22	TMP	B
1,2,4-Trimethylbenzene	488		ug/L	10.0	SW846 8260B			10/9/13 14:22	TMP	B
1,3,5-Trimethylbenzene	75.4		ug/L	1.0	SW846 8260B			10/8/13 08:51	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.2		%	62-133	SW846 8260B			10/8/13 08:51	DD	A
4-Bromofluorobenzene (S)	105		%	79-114	SW846 8260B			10/8/13 08:51	DD	A
Dibromofluoromethane (S)	104		%	78-116	SW846 8260B			10/8/13 08:51	DD	A
Toluene-d8 (S)	108		%	76-127	SW846 8260B			10/8/13 08:51	DD	A
1,2-Dichloroethane-d4 (S)	108		%	62-133	SW846 8260B			10/9/13 14:22	TMP	B
4-Bromofluorobenzene (S)	104		%	79-114	SW846 8260B			10/9/13 14:22	TMP	B
Dibromofluoromethane (S)	116		%	78-116	SW846 8260B			10/9/13 14:22	TMP	B
Toluene-d8 (S)	106		%	76-127	SW846 8260B			10/9/13 14:22	TMP	B

Sample Comments:

Denise Brooks
Project Coordinator

10/21/2014 1:18:31 PM

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ANALYTICAL RESULTS

Workorder: 1050921 BLAIR

Lab ID: **1050921005** Date Collected: 9/27/2013 14:00 Matrix: Ground Water

Sample ID: **MW-5** Date Received: 10/1/2013 20:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	2.0		ug/L	1.0	SW846 8260B			10/8/13 07:59	DD	A
Ethylbenzene	1.2		ug/L	1.0	SW846 8260B			10/8/13 07:59	DD	A
Isopropylbenzene	2.4		ug/L	1.0	SW846 8260B			10/8/13 07:59	DD	A
Methyl t-Butyl Ether	13.8		ug/L	1.0	SW846 8260B			10/8/13 07:59	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			10/8/13 07:59	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:59	DD	A
Total Xylenes	3.2		ug/L	3.0	SW846 8260B			10/8/13 07:59	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:59	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/8/13 07:59	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	101		%	62-133	SW846 8260B			10/8/13 07:59	DD	A
4-Bromofluorobenzene (S)	101		%	79-114	SW846 8260B			10/8/13 07:59	DD	A
Dibromofluoromethane (S)	109		%	78-116	SW846 8260B			10/8/13 07:59	DD	A
Toluene-d8 (S)	105		%	76-127	SW846 8260B			10/8/13 07:59	DD	A

Sample Comments:

Denise Brooks
Project Coordinator

10/21/2014 1:18:32 PM

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ANALYTICAL RESULTS

Workorder: 1050921 BLAIR

Lab ID: **1050921006** Date Collected: 9/27/2013 14:00 Matrix: Ground Water

Sample ID: **MW-6** Date Received: 10/1/2013 20:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			10/8/13 08:16	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			10/8/13 08:16	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			10/8/13 08:16	DD	A
Methyl t-Butyl Ether	3.3		ug/L	1.0	SW846 8260B			10/8/13 08:16	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			10/8/13 08:16	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B			10/8/13 08:16	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			10/8/13 08:16	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/8/13 08:16	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/8/13 08:16	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	100		%	62-133	SW846 8260B			10/8/13 08:16	DD	A
4-Bromofluorobenzene (S)	98.8		%	79-114	SW846 8260B			10/8/13 08:16	DD	A
Dibromofluoromethane (S)	115		%	78-116	SW846 8260B			10/8/13 08:16	DD	A
Toluene-d8 (S)	105		%	76-127	SW846 8260B			10/8/13 08:16	DD	A

Sample Comments:

Denise Brooks
Project Coordinator

10/21/2014 1:18:34 PM

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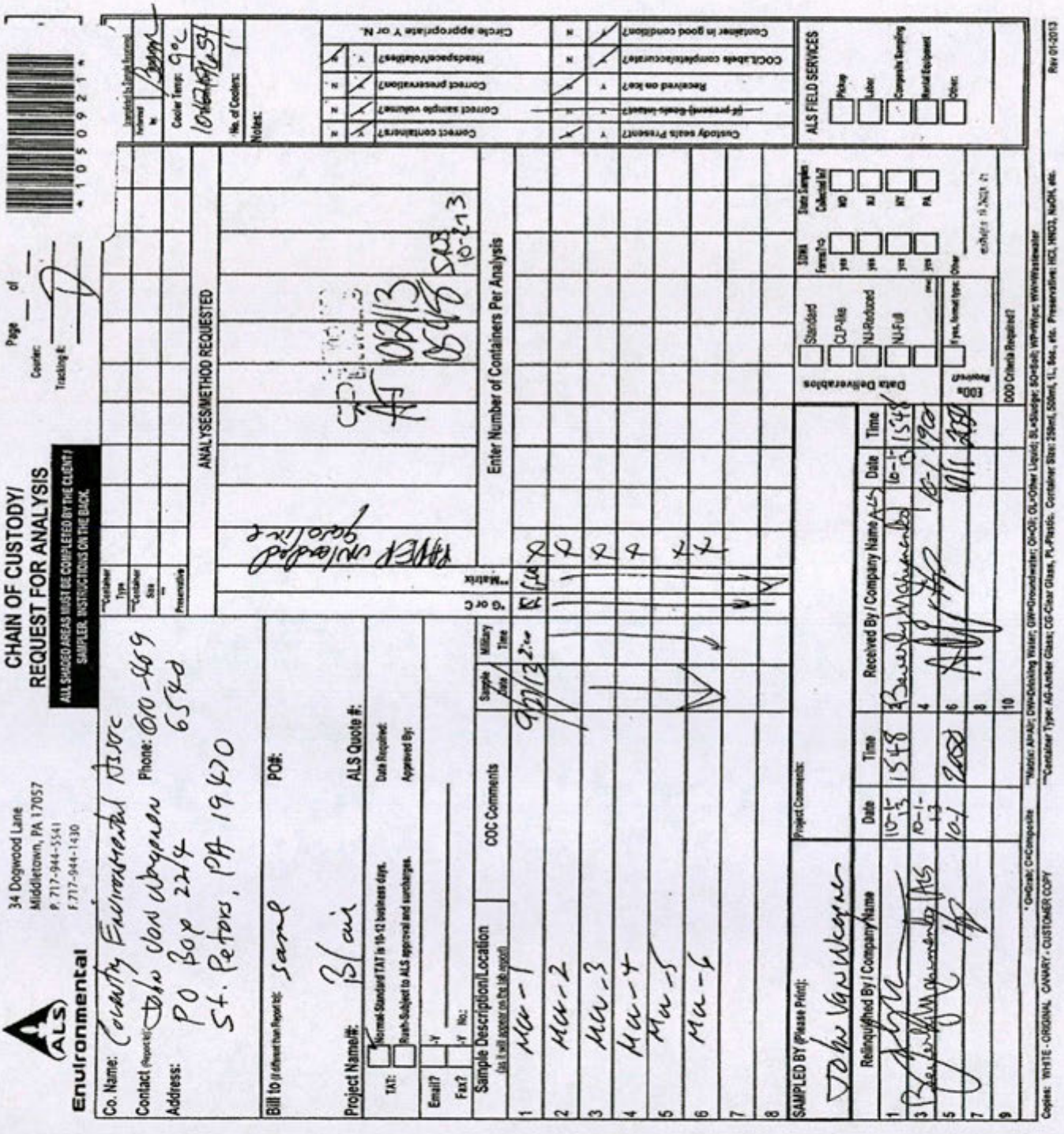

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SAMPLE SUMMARY

Workorder: 1053730 Blair

Discard Date: 11/12/2013

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1053730001	MW-1	Ground Water	10/15/13 13:00	10/16/13 19:47	John VanWagenen
1053730002	MW-2	Ground Water	10/15/13 00:00	10/16/13 19:47	John VanWagenen
1053730003	MW-3	Ground Water	10/15/13 00:00	10/16/13 19:47	John VanWagenen
1053730004	MW-4	Ground Water	10/15/13 00:00	10/16/13 19:47	John VanWagenen
1053730005	MW-5	Ground Water	10/15/13 00:00	10/16/13 19:47	John VanWagenen
1053730006	MW-6	Ground Water	10/15/13 00:00	10/16/13 19:47	John VanWagenen

Workorder Comments:

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

10/21/2014 1:18:36 PM

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ANALYTICAL RESULTS

Workorder: 1053730 Blair

Lab ID: **1053730001** Date Collected: 10/15/2013 13:00 Matrix: Ground Water

Sample ID: **MW-1** Date Received: 10/16/2013 19:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			10/25/13 03:41	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			10/25/13 03:41	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			10/25/13 03:41	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			10/25/13 03:41	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			10/25/13 03:41	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B			10/25/13 03:41	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			10/25/13 03:41	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/25/13 03:41	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/25/13 03:41	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	91.9		%	62-133	SW846 8260B			10/25/13 03:41	GLQ	A
4-Bromofluorobenzene (S)	102		%	79-114	SW846 8260B			10/25/13 03:41	GLQ	A
Dibromofluoromethane (S)	91.2		%	78-116	SW846 8260B			10/25/13 03:41	GLQ	A
Toluene-d8 (S)	107		%	76-127	SW846 8260B			10/25/13 03:41	GLQ	A

Sample Comments:

Denise Brooks
Project Coordinator

10/21/2014 1:18:37 PM

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ANALYTICAL RESULTS

Workorder: 1053730 Blair

Lab ID: **1053730002** Date Collected: 10/15/2013 00:00 Matrix: Ground Water

Sample ID: **MW-2** Date Received: 10/16/2013 19:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			10/24/13 18:02	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			10/24/13 18:02	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			10/24/13 18:02	CJG	A
Methyl t-Butyl Ether	2.5	1	ug/L	1.0	SW846 8260B			10/24/13 18:02	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			10/24/13 18:02	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B			10/24/13 18:02	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			10/24/13 18:02	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/24/13 18:02	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/24/13 18:02	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	103		%	62-133	SW846 8260B			10/24/13 18:02	CJG	A
4-Bromofluorobenzene (S)	96.6		%	79-114	SW846 8260B			10/24/13 18:02	CJG	A
Dibromofluoromethane (S)	103		%	78-116	SW846 8260B			10/24/13 18:02	CJG	A
Toluene-d8 (S)	107		%	76-127	SW846 8260B			10/24/13 18:02	CJG	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1053730 Blair

Lab ID: **1053730003** Date Collected: 10/15/2013 00:00 Matrix: Ground Water

Sample ID: **MW-3** Date Received: 10/16/2013 19:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	35.3		ug/L	1.0	SW846 8260B			10/24/13 18:19	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			10/24/13 18:19	CJG	A
Isopropylbenzene	6.2		ug/L	1.0	SW846 8260B			10/24/13 18:19	CJG	A
Methyl t-Butyl Ether	ND	1	ug/L	1.0	SW846 8260B			10/24/13 18:19	CJG	A
Naphthalene	14.7		ug/L	2.0	SW846 8260B			10/24/13 18:19	CJG	A
Toluene	41.3		ug/L	1.0	SW846 8260B			10/24/13 18:19	CJG	A
Total Xylenes	158		ug/L	3.0	SW846 8260B			10/24/13 18:19	CJG	A
1,2,4-Trimethylbenzene	87.0		ug/L	1.0	SW846 8260B			10/24/13 18:19	CJG	A
1,3,5-Trimethylbenzene	19.1		ug/L	1.0	SW846 8260B			10/24/13 18:19	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	103		%	62-133	SW846 8260B			10/24/13 18:19	CJG	A
4-Bromofluorobenzene (S)	91.4		%	79-114	SW846 8260B			10/24/13 18:19	CJG	A
Dibromofluoromethane (S)	88.1		%	78-116	SW846 8260B			10/24/13 18:19	CJG	A
Toluene-d8 (S)	105		%	76-127	SW846 8260B			10/24/13 18:19	CJG	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1053730 Blair

Lab ID: **1053730004** Date Collected: 10/15/2013 00:00 Matrix: Ground Water

Sample ID: **MW-4** Date Received: 10/16/2013 19:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	5.0	SW846 8260B			10/26/13 05:17	DD	A
Ethylbenzene	223		ug/L	5.0	SW846 8260B			10/26/13 05:17	DD	A
Isopropylbenzene	45.6		ug/L	5.0	SW846 8260B			10/26/13 05:17	DD	A
Methyl t-Butyl Ether	ND		ug/L	5.0	SW846 8260B			10/26/13 05:17	DD	A
Naphthalene	138		ug/L	10.0	SW846 8260B			10/26/13 05:17	DD	A
Toluene	ND		ug/L	5.0	SW846 8260B			10/26/13 05:17	DD	A
Total Xylenes	345		ug/L	15.0	SW846 8260B			10/26/13 05:17	DD	A
1,2,4-Trimethylbenzene	375		ug/L	5.0	SW846 8260B			10/26/13 05:17	DD	A
1,3,5-Trimethylbenzene	37.5		ug/L	5.0	SW846 8260B			10/26/13 05:17	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	93.4		%	62-133	SW846 8260B			10/26/13 05:17	DD	A
4-Bromofluorobenzene (S)	83.3		%	79-114	SW846 8260B			10/26/13 05:17	DD	A
Dibromofluoromethane (S)	85.3		%	78-116	SW846 8260B			10/26/13 05:17	DD	A
Toluene-d8 (S)	96.3		%	76-127	SW846 8260B			10/26/13 05:17	DD	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1053730 Blair

Lab ID: **1053730005** Date Collected: 10/15/2013 00:00 Matrix: Ground Water

Sample ID: **MW-5** Date Received: 10/16/2013 19:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			10/26/13 05:51	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			10/26/13 05:51	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			10/26/13 05:51	DD	A
Methyl t-Butyl Ether	15.1		ug/L	1.0	SW846 8260B			10/26/13 05:51	DD	A
Naphthalene	3.2		ug/L	2.0	SW846 8260B			10/26/13 05:51	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B			10/26/13 05:51	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			10/26/13 05:51	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/26/13 05:51	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/26/13 05:51	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	92.8		%	62-133	SW846 8260B			10/26/13 05:51	DD	A
4-Bromofluorobenzene (S)	86.5		%	79-114	SW846 8260B			10/26/13 05:51	DD	A
Dibromofluoromethane (S)	90.3		%	78-116	SW846 8260B			10/26/13 05:51	DD	A
Toluene-d8 (S)	96.8		%	76-127	SW846 8260B			10/26/13 05:51	DD	A

Sample Comments:

Methods for the analysis of volatile organics require that the sample be preserved to a pH less than 2 using HCl. This sample had a pH greater than 2 when received by the lab.

Denise Brooks

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1053730 Blair

Lab ID: **1053730006** Date Collected: 10/15/2013 00:00 Matrix: Ground Water

Sample ID: **MW-6** Date Received: 10/16/2013 19:47

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			10/24/13 19:10	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			10/24/13 19:10	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			10/24/13 19:10	CJG	A
Methyl t-Butyl Ether	3.4	1	ug/L	1.0	SW846 8260B			10/24/13 19:10	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			10/24/13 19:10	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B			10/24/13 19:10	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			10/24/13 19:10	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/24/13 19:10	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/24/13 19:10	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.1		%	62-133	SW846 8260B			10/24/13 19:10	CJG	A
4-Bromofluorobenzene (S)	97.6		%	79-114	SW846 8260B			10/24/13 19:10	CJG	A
Dibromofluoromethane (S)	98.3		%	78-116	SW846 8260B			10/24/13 19:10	CJG	A
Toluene-d8 (S)	107		%	76-127	SW846 8260B			10/24/13 19:10	CJG	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 1053730 Blair

PARAMETER QUALIFIERS\FLAGS

[1] The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 126 and the control limits were 69 to 115.

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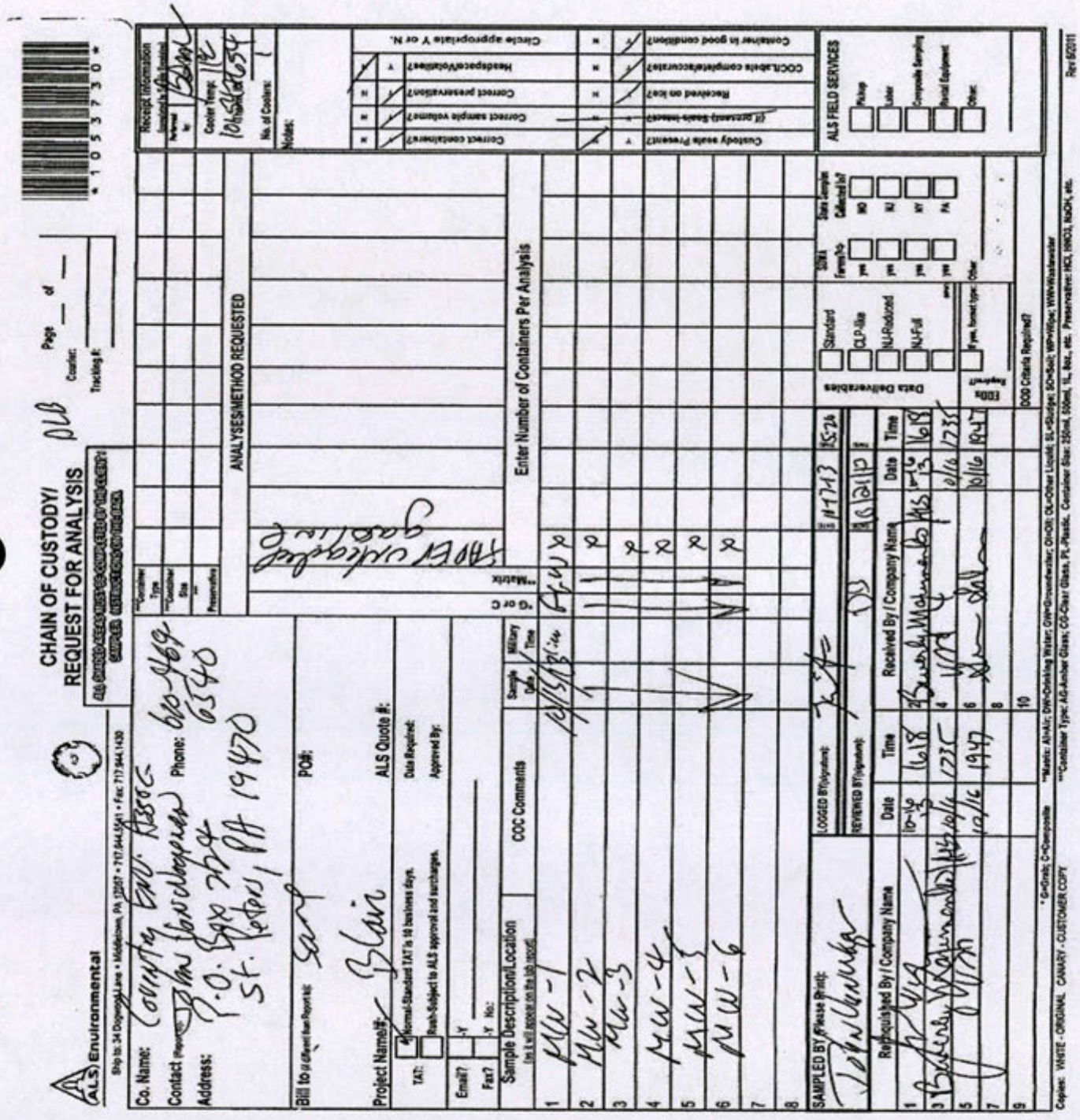

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SAMPLE SUMMARY

Workorder: 1068056 BLAIR

Discard Date: 02/05/2014

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1068056001	MW-1	Ground Water	1/17/14 12:00	1/17/14 19:36	John VanWagenen
1068056002	MW-2	Ground Water	1/17/14 12:00	1/17/14 19:36	John VanWagenen
1068056003	MW-3	Ground Water	1/17/14 12:00	1/17/14 19:36	John VanWagenen
1068056004	MW-4	Ground Water	1/17/14 12:00	1/17/14 19:36	John VanWagenen
1068056005	MW-5	Ground Water	1/17/14 12:00	1/17/14 19:36	John VanWagenen
1068056006	MW-6	Ground Water	1/17/14 12:00	1/17/14 19:36	John VanWagenen
1068056007	MW-7	Ground Water	1/17/14 12:00	1/17/14 19:36	John VanWagenen
1068056008	MW-8	Ground Water	1/17/14 12:00	1/17/14 19:36	John VanWagenen

Workorder Comments:

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 1068056 BLAIR

Lab ID: **1068056001** Date Collected: 1/17/2014 12:00 Matrix: Ground Water

Sample ID: **MW-1** Date Received: 1/17/2014 19:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			1/21/14 01:49	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 01:49	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 01:49	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			1/21/14 01:49	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			1/21/14 01:49	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B			1/21/14 01:49	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			1/21/14 01:49	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 01:49	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 01:49	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B			1/21/14 01:49	GLQ	A
4-Bromofluorobenzene (S)	111		%	79-114	SW846 8260B			1/21/14 01:49	GLQ	A
Dibromofluoromethane (S)	94.7		%	78-116	SW846 8260B			1/21/14 01:49	GLQ	A
Toluene-d8 (S)	108		%	76-127	SW846 8260B			1/21/14 01:49	GLQ	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1068056 BLAIR

Lab ID: **1068056002** Date Collected: 1/17/2014 12:00 Matrix: Ground Water

Sample ID: **MW-2** Date Received: 1/17/2014 19:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	2.0		ug/L	1.0	SW846 8260B			1/21/14 02:12	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 02:12	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 02:12	GLQ	A
Methyl t-Butyl Ether	3.3		ug/L	1.0	SW846 8260B			1/21/14 02:12	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			1/21/14 02:12	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B			1/21/14 02:12	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			1/21/14 02:12	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 02:12	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 02:12	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	104		%	62-133	SW846 8260B			1/21/14 02:12	GLQ	A
4-Bromofluorobenzene (S)	112		%	79-114	SW846 8260B			1/21/14 02:12	GLQ	A
Dibromofluoromethane (S)	98.8		%	78-116	SW846 8260B			1/21/14 02:12	GLQ	A
Toluene-d8 (S)	109		%	76-127	SW846 8260B			1/21/14 02:12	GLQ	A

Sample Comments:

Denise Brooks
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ANALYTICAL RESULTS

Workorder: 1068056 BLAIR

Lab ID: **1068056003** Date Collected: 1/17/2014 12:00 Matrix: Ground Water

Sample ID: **MW-3** Date Received: 1/17/2014 19:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	56.7		ug/L	1.0	SW846 8260B			1/21/14 02:34	GLQ	A
Ethylbenzene	67.9		ug/L	1.0	SW846 8260B			1/21/14 02:34	GLQ	A
Isopropylbenzene	10.3		ug/L	1.0	SW846 8260B			1/21/14 02:34	GLQ	A
Methyl t-Butyl Ether	1.8		ug/L	1.0	SW846 8260B			1/21/14 02:34	GLQ	A
Naphthalene	32.5		ug/L	2.0	SW846 8260B			1/21/14 02:34	GLQ	A
Toluene	74.3		ug/L	1.0	SW846 8260B			1/21/14 02:34	GLQ	A
Total Xylenes	366		ug/L	3.0	SW846 8260B			1/21/14 02:34	GLQ	A
1,2,4-Trimethylbenzene	170		ug/L	10.0	SW846 8260B			1/21/14 19:28	JPA	A
1,3,5-Trimethylbenzene	28.5		ug/L	1.0	SW846 8260B			1/21/14 02:34	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	108		%	62-133	SW846 8260B			1/21/14 02:34	GLQ	A
4-Bromofluorobenzene (S)	109		%	79-114	SW846 8260B			1/21/14 02:34	GLQ	A
Dibromofluoromethane (S)	89.8		%	78-116	SW846 8260B			1/21/14 02:34	GLQ	A
Toluene-d8 (S)	110		%	76-127	SW846 8260B			1/21/14 02:34	GLQ	A
1,2-Dichloroethane-d4 (S)	97.1		%	62-133	SW846 8260B			1/21/14 19:28	JPA	A
4-Bromofluorobenzene (S)	115	1	%	79-114	SW846 8260B			1/21/14 19:28	JPA	A
Dibromofluoromethane (S)	96.8		%	78-116	SW846 8260B			1/21/14 19:28	JPA	A
Toluene-d8 (S)	112		%	76-127	SW846 8260B			1/21/14 19:28	JPA	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Denise Brooks

Denise Brooks
Project Coordinator

10/21/2014 1:18:51 PM

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ANALYTICAL RESULTS

Workorder: 1068056 BLAIR

Lab ID: **1068056004** Date Collected: 1/17/2014 12:00 Matrix: Ground Water

Sample ID: **MW-4** Date Received: 1/17/2014 19:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	10.4		ug/L	5.0	SW846 8260B			1/21/14 19:50	JPA	A
Ethylbenzene	276		ug/L	5.0	SW846 8260B			1/21/14 19:50	JPA	A
Isopropylbenzene	73.9		ug/L	5.0	SW846 8260B			1/21/14 19:50	JPA	A
Methyl t-Butyl Ether	ND		ug/L	5.0	SW846 8260B			1/21/14 19:50	JPA	A
Naphthalene	151		ug/L	10.0	SW846 8260B			1/21/14 19:50	JPA	A
Toluene	ND		ug/L	5.0	SW846 8260B			1/21/14 19:50	JPA	A
Total Xylenes	439		ug/L	15.0	SW846 8260B			1/21/14 19:50	JPA	A
1,2,4-Trimethylbenzene	544		ug/L	5.0	SW846 8260B			1/21/14 19:50	JPA	A
1,3,5-Trimethylbenzene	63.8		ug/L	5.0	SW846 8260B			1/21/14 19:50	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	97.3		%	62-133	SW846 8260B			1/21/14 19:50	JPA	A
4-Bromofluorobenzene (S)	116	2	%	79-114	SW846 8260B			1/21/14 19:50	JPA	A
Dibromofluoromethane (S)	91.2		%	78-116	SW846 8260B			1/21/14 19:50	JPA	A
Toluene-d8 (S)	117		%	76-127	SW846 8260B			1/21/14 19:50	JPA	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Denise Brooks

Denise Brooks
Project Coordinator

10/21/2014 1:18:52 PM

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ANALYTICAL RESULTS

Workorder: 1068056 BLAIR

Lab ID: **1068056005** Date Collected: 1/17/2014 12:00 Matrix: Ground Water

Sample ID: **MW-5** Date Received: 1/17/2014 19:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	30.3		ug/L	1.0	SW846 8260B			1/21/14 20:13	JPA	A
Ethylbenzene	2.6		ug/L	1.0	SW846 8260B			1/21/14 20:13	JPA	A
Isopropylbenzene	7.6		ug/L	1.0	SW846 8260B			1/21/14 20:13	JPA	A
Methyl t-Butyl Ether	24.3		ug/L	1.0	SW846 8260B			1/21/14 20:13	JPA	A
Naphthalene	14.2		ug/L	2.0	SW846 8260B			1/21/14 20:13	JPA	A
Toluene	5.2		ug/L	1.0	SW846 8260B			1/21/14 20:13	JPA	A
Total Xylenes	9.6		ug/L	3.0	SW846 8260B			1/21/14 20:13	JPA	A
1,2,4-Trimethylbenzene	2.3		ug/L	1.0	SW846 8260B			1/21/14 20:13	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 20:13	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96.5		%	62-133	SW846 8260B			1/21/14 20:13	JPA	A
4-Bromofluorobenzene (S)	114		%	79-114	SW846 8260B			1/21/14 20:13	JPA	A
Dibromofluoromethane (S)	91.9		%	78-116	SW846 8260B			1/21/14 20:13	JPA	A
Toluene-d8 (S)	111		%	76-127	SW846 8260B			1/21/14 20:13	JPA	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1068056 BLAIR

Lab ID: **1068056006** Date Collected: 1/17/2014 12:00 Matrix: Ground Water

Sample ID: **MW-6** Date Received: 1/17/2014 19:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	7.2		ug/L	1.0	SW846 8260B			1/21/14 20:35	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 20:35	JPA	A
Isopropylbenzene	1.9		ug/L	1.0	SW846 8260B			1/21/14 20:35	JPA	A
Methyl t-Butyl Ether	15.5		ug/L	1.0	SW846 8260B			1/21/14 20:35	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			1/21/14 20:35	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B			1/21/14 20:35	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			1/21/14 20:35	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 20:35	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 20:35	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	98.3		%	62-133	SW846 8260B			1/21/14 20:35	JPA	A
4-Bromofluorobenzene (S)	115	3	%	79-114	SW846 8260B			1/21/14 20:35	JPA	A
Dibromofluoromethane (S)	92.7		%	78-116	SW846 8260B			1/21/14 20:35	JPA	A
Toluene-d8 (S)	113		%	76-127	SW846 8260B			1/21/14 20:35	JPA	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1068056 BLAIR

Lab ID: **1068056007** Date Collected: 1/17/2014 12:00 Matrix: Ground Water

Sample ID: **MW-7** Date Received: 1/17/2014 19:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	5.1		ug/L	1.0	SW846 8260B			1/21/14 04:04	GLQ	A
Ethylbenzene	128		ug/L	1.0	SW846 8260B			1/21/14 04:04	GLQ	A
Isopropylbenzene	12.3		ug/L	1.0	SW846 8260B			1/21/14 04:04	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			1/21/14 04:04	GLQ	A
Naphthalene	18.2		ug/L	2.0	SW846 8260B			1/21/14 04:04	GLQ	A
Toluene	7.0		ug/L	1.0	SW846 8260B			1/21/14 04:04	GLQ	A
Total Xylenes	105		ug/L	3.0	SW846 8260B			1/21/14 04:04	GLQ	A
1,2,4-Trimethylbenzene	236		ug/L	10.0	SW846 8260B			1/21/14 20:57	JPA	A
1,3,5-Trimethylbenzene	75.7		ug/L	1.0	SW846 8260B			1/21/14 04:04	GLQ	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	106		%	62-133	SW846 8260B			1/21/14 04:04	GLQ	A
4-Bromofluorobenzene (S)	110		%	79-114	SW846 8260B			1/21/14 04:04	GLQ	A
Dibromofluoromethane (S)	93.9		%	78-116	SW846 8260B			1/21/14 04:04	GLQ	A
Toluene-d8 (S)	110		%	76-127	SW846 8260B			1/21/14 04:04	GLQ	A
1,2-Dichloroethane-d4 (S)	100		%	62-133	SW846 8260B			1/21/14 20:57	JPA	A
4-Bromofluorobenzene (S)	114		%	79-114	SW846 8260B			1/21/14 20:57	JPA	A
Dibromofluoromethane (S)	94.4		%	78-116	SW846 8260B			1/21/14 20:57	JPA	A
Toluene-d8 (S)	115		%	76-127	SW846 8260B			1/21/14 20:57	JPA	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Denise Brooks

Denise Brooks
Project Coordinator

10/21/2014 1:18:55 PM

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ANALYTICAL RESULTS

Workorder: 1068056 BLAIR

Lab ID: **1068056008** Date Collected: 1/17/2014 12:00 Matrix: Ground Water

Sample ID: **MW-8** Date Received: 1/17/2014 19:36

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			1/21/14 18:44	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 18:44	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 18:44	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			1/21/14 18:44	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			1/21/14 18:44	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B			1/21/14 18:44	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			1/21/14 18:44	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 18:44	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/21/14 18:44	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	93.1		%	62-133	SW846 8260B			1/21/14 18:44	JPA	A
4-Bromofluorobenzene (S)	115	3	%	79-114	SW846 8260B			1/21/14 18:44	JPA	A
Dibromofluoromethane (S)	92.3		%	78-116	SW846 8260B			1/21/14 18:44	JPA	A
Toluene-d8 (S)	108		%	76-127	SW846 8260B			1/21/14 18:44	JPA	A

Sample Comments:

Denise Brooks
Project Coordinator

10/21/2014 1:18:56 PM

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 1068056 BLAIR

PARAMETER QUALIFIERS\FLAGS

[1] The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 115 and the control limits were 79 to 114. This result was reported at a dilution of 10.

[2] The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 116 and the control limits were 79 to 114. This result was reported at a dilution of 5.

[3] The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 115 and the control limits were 79 to 114. This result was reported at a dilution of 1.

10/21/2014 1:18:58 PM

CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

ALS Environmental
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Co. Name: Gannett Fleming
Contact (Report To): John Mulligan Phone: 610-463-6540
Address: PO Box 226 St. Peters, PA 19470

Bill to (if different than Report to): same PO#:

Project Name/#: Blair ALS Quote #:

TAT: Normal-Standard TAT is 10-12 business days. Rush-Subject to ALS approval and surcharges. Date Required: Approved By:

Email? Y N Fax? Y N No.:

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	"G or C	"Matrix	Container Type	Container Size	Preservative	Enter Number of Containers Per Analysis
1	MW-1		1/17/14	1020	G	W				X
2	MW-2			1						X
3	MW-3									X
4	MW-4									X
5	MW-5									X
6	MW-6									X
7	MW-7									X
8	MW-8									X

ANALYSES/METHOD REQUESTED

SAMPLED BY (Please Print): Brian Mulligan

Project Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	1/17/14	1400	2 Brian Mulligan/GF	1/17/14	1400
3 Brian Mulligan/GF	1/17	1720	4 Brian Mulligan/GF	1/17	1720
5	1/17	1936	6	1/17	1936
7			8		
9			10		

*G=Grab; C=Composite

Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 01-2013

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

*Matrix: AI-Air; DW-Drinking Water; GW-Groundwater; OH-Oil; OL-Other Liquid; SL-Sludge; SO-Soil; WP-Wipe; WW-Wastewater

Cooler Temp: 1.5°C (Corrected 1.8°C) No. of Coolers: 1

Notes: Wants Hill Lift.

Custody seals Present? Y
Custody seals Intact? —
Received on Ice? Y
COC Labels complete/accurate? Y
Container in good condition? Y

Circle appropriate Y or N.
Headspace/Volatiles? Y N
Correct preservation? Y N
Correct sample volume? Y N
Correct containers? Y N

ALS FIELD SERVICES: Pickup, Labor, Composite Sampling, Rental Equipment, Other:

Data Deliverables: Standard, CLP-like, NJ-Reduced, NJ-Full, EDDs Required?, DOD Criteria Required?

State Samples (Collected In): MD, NJ, NY, PA

Sewer Discharge Permit? yes no

Other

Tracking #:

Courier:

Page — of —

1068056

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SAMPLE SUMMARY

Workorder: 1069838 BLAIR

Discard Date: 02/24/2014

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1069838001	MW-1	Ground Water	1/31/14 12:00	1/31/14 19:44	John VanWagenen
1069838002	MW-2	Ground Water	1/31/14 12:00	1/31/14 19:44	John VanWagenen
1069838003	MW-3	Ground Water	1/31/14 12:00	1/31/14 19:44	John VanWagenen
1069838004	MW-4	Ground Water	1/31/14 12:00	1/31/14 19:44	John VanWagenen
1069838005	MW-5	Ground Water	1/31/14 12:00	1/31/14 19:44	John VanWagenen
1069838006	MW-6	Ground Water	1/31/14 12:00	1/31/14 19:44	John VanWagenen
1069838007	MW-7	Ground Water	1/31/14 12:00	1/31/14 19:44	John VanWagenen
1069838008	MW-8	Ground Water	1/31/14 12:00	1/31/14 19:44	John VanWagenen

Workorder Comments:

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

10/21/2014 1:19:00 PM

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ANALYTICAL RESULTS

Workorder: 1069838 BLAIR

Lab ID: **1069838001** Date Collected: 1/31/2014 12:00 Matrix: Ground Water
Sample ID: **MW-1** Date Received: 1/31/2014 19:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/3/14 19:16	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/3/14 19:16	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/3/14 19:16	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/3/14 19:16	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/3/14 19:16	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/3/14 19:16	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/3/14 19:16	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/3/14 19:16	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/3/14 19:16	TMP	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	86		%	62-133	SW846 8260B			2/3/14 19:16	TMP	A
4-Bromofluorobenzene (S)	90.1		%	79-114	SW846 8260B			2/3/14 19:16	TMP	A
Dibromofluoromethane (S)	82.4		%	78-116	SW846 8260B			2/3/14 19:16	TMP	A
Toluene-d8 (S)	85.1		%	76-127	SW846 8260B			2/3/14 19:16	TMP	A

Sample Comments:

Denise Brooks
Project Coordinator

10/21/2014 1:19:01 PM

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ANALYTICAL RESULTS

Workorder: 1069838 BLAIR

Lab ID: **1069838002** Date Collected: 1/31/2014 12:00 Matrix: Ground Water

Sample ID: **MW-2** Date Received: 1/31/2014 19:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/3/14 19:38	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/3/14 19:38	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/3/14 19:38	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/3/14 19:38	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/3/14 19:38	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/3/14 19:38	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/3/14 19:38	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/3/14 19:38	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/3/14 19:38	TMP	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	85		%	62-133	SW846 8260B			2/3/14 19:38	TMP	A
4-Bromofluorobenzene (S)	88.1		%	79-114	SW846 8260B			2/3/14 19:38	TMP	A
Dibromofluoromethane (S)	80.8		%	78-116	SW846 8260B			2/3/14 19:38	TMP	A
Toluene-d8 (S)	85.7		%	76-127	SW846 8260B			2/3/14 19:38	TMP	A

Sample Comments:

Denise Brooks
Project Coordinator

ALS Environmental

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ANALYTICAL RESULTS

Workorder: 1069838 BLAIR

Lab ID: **1069838003** Date Collected: 1/31/2014 12:00 Matrix: Ground Water

Sample ID: **MW-3** Date Received: 1/31/2014 19:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	7.7		ug/L	1.0	SW846 8260B			2/7/14 17:45	TMP	B
Ethylbenzene	2.1		ug/L	1.0	SW846 8260B			2/7/14 17:45	TMP	B
Isopropylbenzene	2.1		ug/L	1.0	SW846 8260B			2/7/14 17:45	TMP	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/7/14 17:45	TMP	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/7/14 17:45	TMP	B
Toluene	4.9		ug/L	1.0	SW846 8260B			2/7/14 17:45	TMP	B
Total Xylenes	8.7		ug/L	3.0	SW846 8260B			2/7/14 17:45	TMP	B
1,2,4-Trimethylbenzene	9.2		ug/L	1.0	SW846 8260B			2/7/14 17:45	TMP	B
1,3,5-Trimethylbenzene	1.1		ug/L	1.0	SW846 8260B			2/7/14 17:45	TMP	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	101		%	62-133	SW846 8260B			2/7/14 17:45	TMP	B
4-Bromofluorobenzene (S)	98.7		%	79-114	SW846 8260B			2/7/14 17:45	TMP	B
Dibromofluoromethane (S)	78.1		%	78-116	SW846 8260B			2/7/14 17:45	TMP	B
Toluene-d8 (S)	104		%	76-127	SW846 8260B			2/7/14 17:45	TMP	B

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1069838 BLAIR

Lab ID: **1069838004** Date Collected: 1/31/2014 12:00 Matrix: Ground Water
Sample ID: **MW-4** Date Received: 1/31/2014 19:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	5.0	SW846 8260B			2/3/14 20:22	TMP	A
Ethylbenzene	274		ug/L	5.0	SW846 8260B			2/3/14 20:22	TMP	A
Isopropylbenzene	85.1		ug/L	5.0	SW846 8260B			2/3/14 20:22	TMP	A
Methyl t-Butyl Ether	ND		ug/L	5.0	SW846 8260B			2/3/14 20:22	TMP	A
Naphthalene	116		ug/L	10.0	SW846 8260B			2/3/14 20:22	TMP	A
Toluene	ND		ug/L	5.0	SW846 8260B			2/3/14 20:22	TMP	A
Total Xylenes	565		ug/L	15.0	SW846 8260B			2/3/14 20:22	TMP	A
1,2,4-Trimethylbenzene	622		ug/L	5.0	SW846 8260B			2/3/14 20:22	TMP	A
1,3,5-Trimethylbenzene	84.6		ug/L	5.0	SW846 8260B			2/3/14 20:22	TMP	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	89.9		%	62-133	SW846 8260B			2/3/14 20:22	TMP	A
4-Bromofluorobenzene (S)	88.8		%	79-114	SW846 8260B			2/3/14 20:22	TMP	A
Dibromofluoromethane (S)	79.9		%	78-116	SW846 8260B			2/3/14 20:22	TMP	A
Toluene-d8 (S)	87		%	76-127	SW846 8260B			2/3/14 20:22	TMP	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1069838 BLAIR

Lab ID: **1069838005** Date Collected: 1/31/2014 12:00 Matrix: Ground Water
Sample ID: **MW-5** Date Received: 1/31/2014 19:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	88.1		ug/L	1.0	SW846 8260B			2/3/14 20:00	TMP	A
Ethylbenzene	6.5		ug/L	1.0	SW846 8260B			2/3/14 20:00	TMP	A
Isopropylbenzene	15.4		ug/L	1.0	SW846 8260B			2/3/14 20:00	TMP	A
Methyl t-Butyl Ether	29.1		ug/L	1.0	SW846 8260B			2/3/14 20:00	TMP	A
Naphthalene	24.5		ug/L	2.0	SW846 8260B			2/3/14 20:00	TMP	A
Toluene	9.8		ug/L	1.0	SW846 8260B			2/3/14 20:00	TMP	A
Total Xylenes	14.7		ug/L	3.0	SW846 8260B			2/3/14 20:00	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/3/14 20:00	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/3/14 20:00	TMP	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	86.2		%	62-133	SW846 8260B			2/3/14 20:00	TMP	A
4-Bromofluorobenzene (S)	90.1		%	79-114	SW846 8260B			2/3/14 20:00	TMP	A
Dibromofluoromethane (S)	78.5		%	78-116	SW846 8260B			2/3/14 20:00	TMP	A
Toluene-d8 (S)	87.1		%	76-127	SW846 8260B			2/3/14 20:00	TMP	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1069838 BLAIR

Lab ID: **1069838006** Date Collected: 1/31/2014 12:00 Matrix: Ground Water

Sample ID: **MW-6** Date Received: 1/31/2014 19:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	41.4		ug/L	1.0	SW846 8260B			2/4/14 06:27	DD	A
Ethylbenzene	2.2		ug/L	1.0	SW846 8260B			2/4/14 06:27	DD	A
Isopropylbenzene	22.7		ug/L	1.0	SW846 8260B			2/4/14 06:27	DD	A
Methyl t-Butyl Ether	24.4		ug/L	1.0	SW846 8260B			2/4/14 06:27	DD	A
Naphthalene	15.1		ug/L	2.0	SW846 8260B			2/4/14 06:27	DD	A
Toluene	4.6		ug/L	1.0	SW846 8260B			2/4/14 06:27	DD	A
Total Xylenes	8.9		ug/L	3.0	SW846 8260B			2/4/14 06:27	DD	A
1,2,4-Trimethylbenzene	1.1		ug/L	1.0	SW846 8260B			2/4/14 06:27	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/4/14 06:27	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	111		%	62-133	SW846 8260B			2/4/14 06:27	DD	A
4-Bromofluorobenzene (S)	93.7		%	79-114	SW846 8260B			2/4/14 06:27	DD	A
Dibromofluoromethane (S)	79.9		%	78-116	SW846 8260B			2/4/14 06:27	DD	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B			2/4/14 06:27	DD	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1069838 BLAIR

Lab ID: **1069838007** Date Collected: 1/31/2014 12:00 Matrix: Ground Water

Sample ID: **MW-7** Date Received: 1/31/2014 19:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	2.2		ug/L	1.0	SW846 8260B			2/4/14 06:44	DD	A
Ethylbenzene	11.8		ug/L	1.0	SW846 8260B			2/4/14 06:44	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/4/14 06:44	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/4/14 06:44	DD	A
Naphthalene	14.7		ug/L	2.0	SW846 8260B			2/4/14 06:44	DD	A
Toluene	1.5		ug/L	1.0	SW846 8260B			2/4/14 06:44	DD	A
Total Xylenes	168		ug/L	3.0	SW846 8260B			2/4/14 06:44	DD	A
1,2,4-Trimethylbenzene	193		ug/L	1.0	SW846 8260B			2/4/14 06:44	DD	A
1,3,5-Trimethylbenzene	36.3		ug/L	1.0	SW846 8260B			2/4/14 06:44	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	110		%	62-133	SW846 8260B			2/4/14 06:44	DD	A
4-Bromofluorobenzene (S)	88.8		%	79-114	SW846 8260B			2/4/14 06:44	DD	A
Dibromofluoromethane (S)	84.2		%	78-116	SW846 8260B			2/4/14 06:44	DD	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B			2/4/14 06:44	DD	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1069838 BLAIR

Lab ID: **1069838008** Date Collected: 1/31/2014 12:00 Matrix: Ground Water

Sample ID: **MW-8** Date Received: 1/31/2014 19:44

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	3.1		ug/L	1.0	SW846 8260B			2/4/14 06:10	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/4/14 06:10	DD	A
Isopropylbenzene	1.9		ug/L	1.0	SW846 8260B			2/4/14 06:10	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/4/14 06:10	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/4/14 06:10	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/4/14 06:10	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/4/14 06:10	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/4/14 06:10	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/4/14 06:10	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	113		%	62-133	SW846 8260B			2/4/14 06:10	DD	A
4-Bromofluorobenzene (S)	95.3		%	79-114	SW846 8260B			2/4/14 06:10	DD	A
Dibromofluoromethane (S)	82.5		%	78-116	SW846 8260B			2/4/14 06:10	DD	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B			2/4/14 06:10	DD	A

Sample Comments:

Denise Brooks
Project Coordinator

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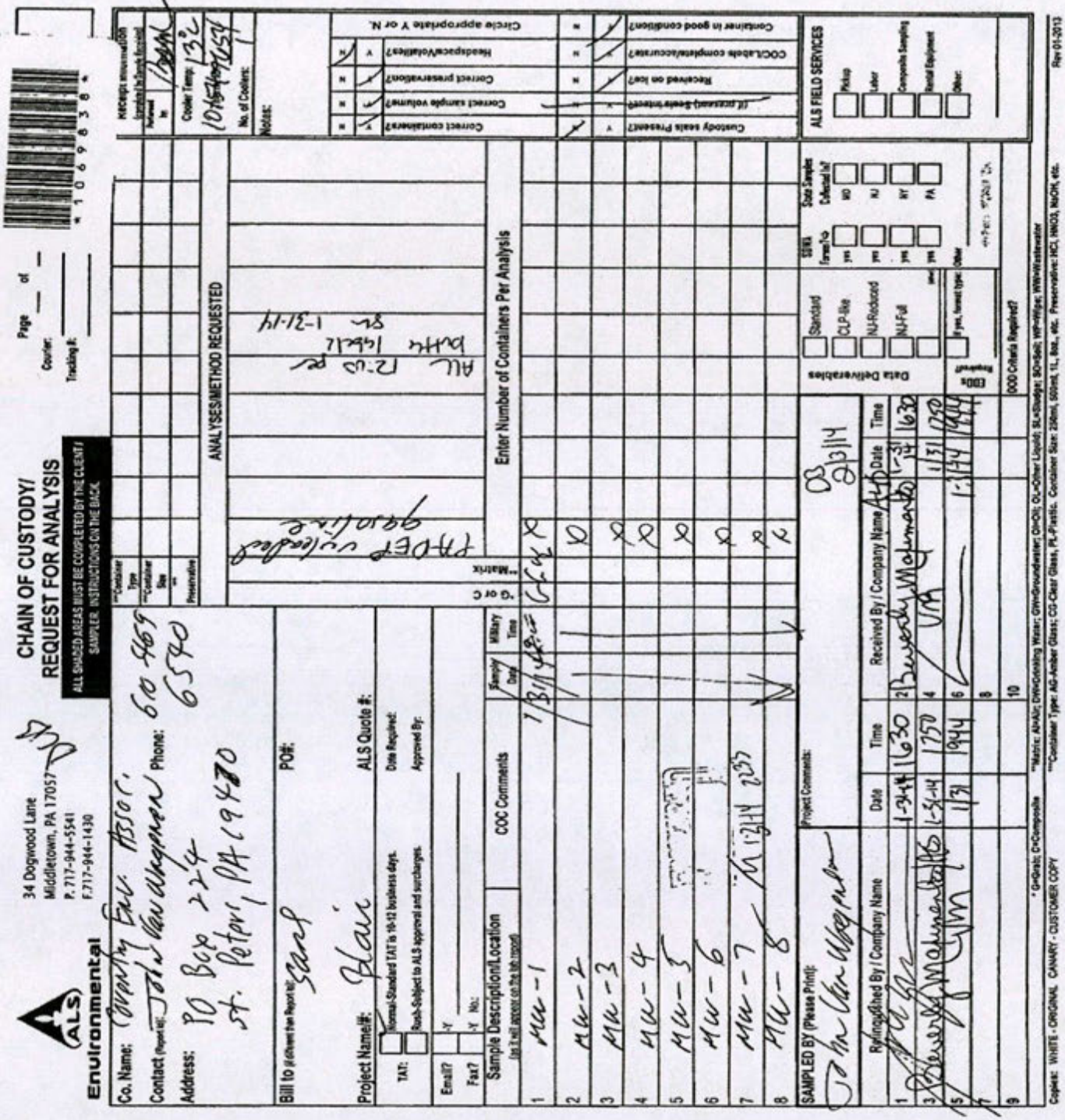

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SAMPLE SUMMARY

Workorder: 2006197 BLAIR

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2006197001	MW-1	Ground Water	5/9/2014 12:00	5/9/2014 21:21	Collected by Client
2006197002	MW-2	Ground Water	5/9/2014 00:00	5/9/2014 21:21	Collected by Client
2006197003	MW-3	Ground Water	5/9/2014 00:00	5/9/2014 21:21	Collected by Client
2006197004	MW-4	Ground Water	5/9/2014 00:00	5/9/2014 21:21	Collected by Client
2006197005	MW-5	Ground Water	5/9/2014 00:00	5/9/2014 21:21	Collected by Client
2006197006	MW-6	Ground Water	5/9/2014 00:00	5/9/2014 21:21	Collected by Client
2006197007	MW-7	Ground Water	5/9/2014 00:00	5/9/2014 21:21	Collected by Client
2006197008	MW-8	Ground Water	5/9/2014 00:00	5/9/2014 21:21	Collected by Client
2006197009	MW-9	Ground Water	5/9/2014 00:00	5/9/2014 21:21	Collected by Client
2006197010	MW-10	Ground Water	5/9/2014 00:00	5/9/2014 21:21	Collected by Client

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SAMPLE SUMMARY

Workorder: 2006197 BLAIR

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit

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ANALYTICAL RESULTS

Workorder: 2006197 BLAIR

Lab ID: **2006197001** Date Collected: 5/9/2014 12:00 Matrix: Ground Water

Sample ID: **MW-1** Date Received: 5/9/2014 21:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:33	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:33	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:33	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:33	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	5/13/14	CJG	5/13/14 05:33	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:33	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	5/13/14	CJG	5/13/14 05:33	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:33	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:33	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	95.9		%	62 - 133	SW846 8260B	5/13/14	CJG	5/13/14 05:33	CJG	A
[illegible]mofluorobenzene (S)	111		%	79 - 114	SW846 8260B	5/13/14	CJG	5/13/14 05:33	CJG	A
Dibromofluoromethane (S)	89.5		%	78 - 116	SW846 8260B	5/13/14	CJG	5/13/14 05:33	CJG	A
Toluene-d8 (S)	105		%	76 - 127	SW846 8260B	5/13/14	CJG	5/13/14 05:33	CJG	A

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ANALYTICAL RESULTS

Workorder: 2006197 BLAIR

Lab ID: **2006197002** Date Collected: 5/9/2014 00:00 Matrix: Ground Water

Sample ID: **MW-2** Date Received: 5/9/2014 21:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:54	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:54	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:54	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:54	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	5/13/14	CJG	5/13/14 05:54	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:54	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	5/13/14	CJG	5/13/14 05:54	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:54	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:54	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96		%	62 - 133	SW846 8260B	5/13/14	CJG	5/13/14 05:54	CJG	A
[illegible]mofluorobenzene (S)	109		%	79 - 114	SW846 8260B	5/13/14	CJG	5/13/14 05:54	CJG	A
Dibromofluoromethane (S)	89.4		%	78 - 116	SW846 8260B	5/13/14	CJG	5/13/14 05:54	CJG	A
Toluene-d8 (S)	105		%	76 - 127	SW846 8260B	5/13/14	CJG	5/13/14 05:54	CJG	A

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ANALYTICAL RESULTS

Workorder: 2006197 BLAIR

Lab ID: **2006197003** Date Collected: 5/9/2014 00:00 Matrix: Ground Water

Sample ID: **MW-3** Date Received: 5/9/2014 21:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:16	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:16	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:16	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:16	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	5/13/14	CJG	5/13/14 06:16	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:16	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	5/13/14	CJG	5/13/14 06:16	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:16	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:16	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96.5		%	62 - 133	SW846 8260B	5/13/14	CJG	5/13/14 06:16	CJG	A
[redacted]mofluorobenzene (S)	110		%	79 - 114	SW846 8260B	5/13/14	CJG	5/13/14 06:16	CJG	A
Dibromofluoromethane (S)	88.5		%	78 - 116	SW846 8260B	5/13/14	CJG	5/13/14 06:16	CJG	A
Toluene-d8 (S)	105		%	76 - 127	SW846 8260B	5/13/14	CJG	5/13/14 06:16	CJG	A

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ANALYTICAL RESULTS

Workorder: 2006197 BLAIR

Lab ID: **2006197004** Date Collected: 5/9/2014 00:00 Matrix: Ground Water

Sample ID: **MW-4** Date Received: 5/9/2014 21:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:38	CJG	A
Ethylbenzene	179		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:38	CJG	A
Isopropylbenzene	75.9		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:38	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:38	CJG	A
Naphthalene	87.5		ug/L	2.0	SW846 8260B	5/13/14	CJG	5/13/14 06:38	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:38	CJG	A
Total Xylenes	297		ug/L	3.0	SW846 8260B	5/13/14	CJG	5/13/14 06:38	CJG	A
1,2,4-Trimethylbenzene	297		ug/L	5.0	SW846 8260B	5/13/14	TMP	5/13/14 19:40	TMP	A
1,3,5-Trimethylbenzene	84.3		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:38	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	85.5		%	62 - 133	SW846 8260B	5/13/14	TMP	5/13/14 19:40	TMP	A
[illegible]chloroethane-d4 (S)	101		%	62 - 133	SW846 8260B	5/13/14	CJG	5/13/14 06:38	CJG	A
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B	5/13/14	TMP	5/13/14 19:40	TMP	A
4-Bromofluorobenzene (S)	115	1	%	79 - 114	SW846 8260B	5/13/14	CJG	5/13/14 06:38	CJG	A
Dibromofluoromethane (S)	87.7		%	78 - 116	SW846 8260B	5/13/14	CJG	5/13/14 06:38	CJG	A
Dibromofluoromethane (S)	89.3		%	78 - 116	SW846 8260B	5/13/14	TMP	5/13/14 19:40	TMP	A
Toluene-d8 (S)	106		%	76 - 127	SW846 8260B	5/13/14	CJG	5/13/14 06:38	CJG	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B	5/13/14	TMP	5/13/14 19:40	TMP	A

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ANALYTICAL RESULTS

Workorder: 2006197 BLAIR

Lab ID: **2006197005** Date Collected: 5/9/2014 00:00 Matrix: Ground Water

Sample ID: **MW-5** Date Received: 5/9/2014 21:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	129		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 07:00	CJG	A
Ethylbenzene	40.8		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 07:00	CJG	A
Isopropylbenzene	20.7		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 07:00	CJG	A
Methyl t-Butyl Ether	32.4		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 07:00	CJG	A
Naphthalene	34.2		ug/L	2.0	SW846 8260B	5/13/14	CJG	5/13/14 07:00	CJG	A
Toluene	35.2		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 07:00	CJG	A
Total Xylenes	92.5		ug/L	3.0	SW846 8260B	5/13/14	CJG	5/13/14 07:00	CJG	A
1,2,4-Trimethylbenzene	11.6		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 07:00	CJG	A
1,3,5-Trimethylbenzene	5.5		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 07:00	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96.7		%	62 - 133	SW846 8260B	5/13/14	CJG	5/13/14 07:00	CJG	A
[illegible]nofluorobenzene (S)	110		%	79 - 114	SW846 8260B	5/13/14	CJG	5/13/14 07:00	CJG	A
Dibromofluoromethane (S)	88.6		%	78 - 116	SW846 8260B	5/13/14	CJG	5/13/14 07:00	CJG	A
Toluene-d8 (S)	106		%	76 - 127	SW846 8260B	5/13/14	CJG	5/13/14 07:00	CJG	A

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ANALYTICAL RESULTS

Workorder: 2006197 BLAIR

Lab ID: **2006197006** Date Collected: 5/9/2014 00:00 Matrix: Ground Water

Sample ID: **MW-6** Date Received: 5/9/2014 21:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 04:04	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 04:04	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 04:04	CJG	A
Methyl t-Butyl Ether	10.5		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 04:04	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	5/13/14	CJG	5/13/14 04:04	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 04:04	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	5/13/14	CJG	5/13/14 04:04	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 04:04	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 04:04	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	91.5		%	62 - 133	SW846 8260B	5/13/14	CJG	5/13/14 04:04	CJG	A
[illegible]mofluorobenzene (S)	110		%	79 - 114	SW846 8260B	5/13/14	CJG	5/13/14 04:04	CJG	A
Dibromofluoromethane (S)	88.5		%	78 - 116	SW846 8260B	5/13/14	CJG	5/13/14 04:04	CJG	A
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B	5/13/14	CJG	5/13/14 04:04	CJG	A

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ANALYTICAL RESULTS

Workorder: 2006197 BLAIR

Lab ID: **2006197007** Date Collected: 5/9/2014 00:00 Matrix: Ground Water

Sample ID: **MW-7** Date Received: 5/9/2014 21:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:13	CJG	A
Ethylbenzene	2.0		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:13	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:13	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:13	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	5/13/14	CJG	5/13/14 05:13	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:13	CJG	A
Total Xylenes	24.6		ug/L	3.0	SW846 8260B	5/13/14	CJG	5/13/14 05:13	CJG	A
1,2,4-Trimethylbenzene	10.6		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:13	CJG	A
1,3,5-Trimethylbenzene	4.7		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:13	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	90.9		%	62 - 133	SW846 8260B	5/13/14	CJG	5/13/14 05:13	CJG	A
[illegible]mofluorobenzene (S)	106		%	79 - 114	SW846 8260B	5/13/14	CJG	5/13/14 05:13	CJG	A
Dibromofluoromethane (S)	88.8		%	78 - 116	SW846 8260B	5/13/14	CJG	5/13/14 05:13	CJG	A
Toluene-d8 (S)	104		%	76 - 127	SW846 8260B	5/13/14	CJG	5/13/14 05:13	CJG	A

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ANALYTICAL RESULTS

Workorder: 2006197 BLAIR

Lab ID: **2006197008** Date Collected: 5/9/2014 00:00 Matrix: Ground Water

Sample ID: **MW-8** Date Received: 5/9/2014 21:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:30	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:30	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:30	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:30	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	5/13/14	CJG	5/13/14 05:30	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:30	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	5/13/14	CJG	5/13/14 05:30	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:30	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:30	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	90.8		%	62 - 133	SW846 8260B	5/13/14	CJG	5/13/14 05:30	CJG	A
[illegible]nofluorobenzene (S)	109		%	79 - 114	SW846 8260B	5/13/14	CJG	5/13/14 05:30	CJG	A
Dibromofluoromethane (S)	88.5		%	78 - 116	SW846 8260B	5/13/14	CJG	5/13/14 05:30	CJG	A
Toluene-d8 (S)	104		%	76 - 127	SW846 8260B	5/13/14	CJG	5/13/14 05:30	CJG	A

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ANALYTICAL RESULTS

Workorder: 2006197 BLAIR

Lab ID: **2006197009** Date Collected: 5/9/2014 00:00 Matrix: Ground Water

Sample ID: **MW-9** Date Received: 5/9/2014 21:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	49.0		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:47	CJG	A
Ethylbenzene	11.1		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:47	CJG	A
Isopropylbenzene	13.6		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:47	CJG	A
Methyl t-Butyl Ether	25.7		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:47	CJG	A
Naphthalene	5.5		ug/L	2.0	SW846 8260B	5/13/14	CJG	5/13/14 05:47	CJG	A
Toluene	8.9		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:47	CJG	A
Total Xylenes	4.8		ug/L	3.0	SW846 8260B	5/13/14	CJG	5/13/14 05:47	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:47	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 05:47	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	89.4		%	62 - 133	SW846 8260B	5/13/14	CJG	5/13/14 05:47	CJG	A
[illegible]mofluorobenzene (S)	105		%	79 - 114	SW846 8260B	5/13/14	CJG	5/13/14 05:47	CJG	A
Dibromofluoromethane (S)	83.4		%	78 - 116	SW846 8260B	5/13/14	CJG	5/13/14 05:47	CJG	A
Toluene-d8 (S)	99.2		%	76 - 127	SW846 8260B	5/13/14	CJG	5/13/14 05:47	CJG	A

Vicki Forney

Mrs. Vicki A. Forney
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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 2006197 BLAIR

Lab ID: **2006197010** Date Collected: 5/9/2014 00:00 Matrix: Ground Water

Sample ID: **MW-10** Date Received: 5/9/2014 21:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:04	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:04	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:04	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:04	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	5/13/14	CJG	5/13/14 06:04	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:04	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	5/13/14	CJG	5/13/14 06:04	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:04	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/13/14	CJG	5/13/14 06:04	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	90.1		%	62 - 133	SW846 8260B	5/13/14	CJG	5/13/14 06:04	CJG	A
[illegible]nofluorobenzene (S)	108		%	79 - 114	SW846 8260B	5/13/14	CJG	5/13/14 06:04	CJG	A
Dibromofluoromethane (S)	86.6		%	78 - 116	SW846 8260B	5/13/14	CJG	5/13/14 06:04	CJG	A
Toluene-d8 (S)	106		%	76 - 127	SW846 8260B	5/13/14	CJG	5/13/14 06:04	CJG	A

Vicki Forney

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PARAMETER QUALIFIERS

#	Lab ID	Sample ID	Analytical Method	Analyte
1	**2006197004**	MW-4	SW846 8260B	4-Bromofluorobenzene

The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 115 and the control limits were 79 to 114. This result was reported at a dilution of 1.

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CHAIN OF CUSTODY / REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER INSTRUCTIONS ON THE BACK

Page ___ of ___

Courier:

Tracking #:

2006197

Co. Name: Coventry Env. Assoc.

Contact (Report to): John VanWagenen Phone: 610 469 6540

Address: PO Box 224 St. Peters, PA 19470

Bill to (if different than Report to): same PO#:

Project Name/#: Blair ALS Quote #:

TAT: [✓] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges. Date Required: Approved By:

Email? [ ] Y

Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	***Container Type	***Container Size	*** Preservative	ANALYSES/METHOD REQUESTED
1 MW-1		5/9/14	12:00	G	GW	P	250	HNO3	PAHs (unfiltered, ground water)
2 MW-2									
3 MW-3									
4 MW-4									
5 MW-5									
6 MW-6									
7 MW-7									
8 MW-8									
9 MW-9									
10 MW-10									

Enter Number of Containers Per Analysis

Performed by: Brian

Cooler Temp: 8°C

Therm. ID: TH294

No. of Coolers: 1

Notes:

Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
Y	Y	Y	Y	

Custody seals Present?	(If present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
Y	Y	Y	Y	Y

SAMPLED BY (Please Print):

Project Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	5/9	1610	2 Beverly Mahnmenta/ALS	5/9	1610
3 Beverly Mahnmenta/ALS	5/9	1930	4	5/9	1930
5 VM	5/9	2121	6	5/9	2121
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other

EDDs Required? [ ] If yes, format type:

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ] yes [ ]

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]

Other

DOD Criteria Required?

ALS FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite

**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Oi=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 01-2013

Wednesday, May 14, 2014 4:27:51 PM
CHEMWARE
10/21/2014 1:19:27 PM

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SAMPLE SUMMARY

Workorder: 2008769 Unleaded Gas Testing

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2008769001	MW-1	Ground Water	5/23/2014 00:00	5/23/2014 19:50	Mr. John VanWagenen
2008769002	MW-2	Ground Water	5/23/2014 00:00	5/23/2014 19:50	Mr. John VanWagenen
2008769003	MW-3	Ground Water	5/23/2014 00:00	5/23/2014 19:50	Mr. John VanWagenen
2008769004	MW-4	Ground Water	5/23/2014 00:00	5/23/2014 19:50	Mr. John VanWagenen
2008769005	MW-5	Ground Water	5/23/2014 00:00	5/23/2014 19:50	Mr. John VanWagenen
2008769006	MW-6	Ground Water	5/23/2014 00:00	5/23/2014 19:50	Mr. John VanWagenen
2008769007	MW-7	Ground Water	5/23/2014 00:00	5/23/2014 19:50	Mr. John VanWagenen
2008769008	MW-8	Ground Water	5/23/2014 00:00	5/23/2014 19:50	Mr. John VanWagenen
2008769009	MW-9	Ground Water	5/23/2014 00:00	5/23/2014 19:50	Mr. John VanWagenen
2008769010	MW-10	Ground Water	5/23/2014 00:00	5/23/2014 19:50	Mr. John VanWagenen

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ANALYTICAL RESULTS

Workorder: 2008769 Unleaded Gas Testing

Lab ID: **2008769001** Date Collected: 5/23/2014 00:00 Matrix: Ground Water

Sample ID: **MW-1** Date Received: 5/23/2014 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 00:58	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 00:58	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 00:58	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 00:58	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	5/29/14	CJG	5/29/14 00:58	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 00:58	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	5/29/14	CJG	5/29/14 00:58	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 00:58	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 00:58	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	112		%	62 - 133	SW846 8260B	5/29/14	CJG	5/29/14 00:58	CJG	A
[illegible]omofluorobenzene (S)	105		%	79 - 114	SW846 8260B	5/29/14	CJG	5/29/14 00:58	CJG	A
Dibromofluoromethane (S)	95.4		%	78 - 116	SW846 8260B	5/29/14	CJG	5/29/14 00:58	CJG	A
Toluene-d8 (S)	107		%	76 - 127	SW846 8260B	5/29/14	CJG	5/29/14 00:58	CJG	A

Vicki Forney

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10/21/2014 1:19:30 PM

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ANALYTICAL RESULTS

Workorder: 2008769 Unleaded Gas Testing

Lab ID: **2008769002** Date Collected: 5/23/2014 00:00 Matrix: Ground Water
Sample ID: **MW-2** Date Received: 5/23/2014 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 01:20	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 01:20	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 01:20	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 01:20	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	5/29/14	CJG	5/29/14 01:20	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 01:20	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	5/29/14	CJG	5/29/14 01:20	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 01:20	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 01:20	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	112		%	62 - 133	SW846 8260B	5/29/14	CJG	5/29/14 01:20	CJG	A
[redacted]mofluorobenzene (S)	105		%	79 - 114	SW846 8260B	5/29/14	CJG	5/29/14 01:20	CJG	A
Dibromofluoromethane (S)	95.4		%	78 - 116	SW846 8260B	5/29/14	CJG	5/29/14 01:20	CJG	A
Toluene-d8 (S)	108		%	76 - 127	SW846 8260B	5/29/14	CJG	5/29/14 01:20	CJG	A

Vicki Forney
Mrs. Vicki A. Forney
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10/21/2014 1:19:31 PM

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ANALYTICAL RESULTS

Workorder: 2008769 Unleaded Gas Testing

Lab ID: **2008769003** Date Collected: 5/23/2014 00:00 Matrix: Ground Water

Sample ID: **MW-3** Date Received: 5/23/2014 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 01:42	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 01:42	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 01:42	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 01:42	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	5/29/14	CJG	5/29/14 01:42	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 01:42	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	5/29/14	CJG	5/29/14 01:42	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 01:42	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 01:42	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	110		%	62 - 133	SW846 8260B	5/29/14	CJG	5/29/14 01:42	CJG	A
[illegible]omofluorobenzene (S)	104		%	79 - 114	SW846 8260B	5/29/14	CJG	5/29/14 01:42	CJG	A
[illegible]romofluoromethane (S)	93.3		%	78 - 116	SW846 8260B	5/29/14	CJG	5/29/14 01:42	CJG	A
Toluene-d8 (S)	104		%	76 - 127	SW846 8260B	5/29/14	CJG	5/29/14 01:42	CJG	A

Vicki Forney

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10/21/2014 1:19:32 PM

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ANALYTICAL RESULTS

Workorder: 2008769 Unleaded Gas Testing

Lab ID: **2008769004** Date Collected: 5/23/2014 00:00 Matrix: Ground Water

Sample ID: **MW-4** Date Received: 5/23/2014 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 02:03	CJG	A
Ethylbenzene	201		ug/L	10.0	SW846 8260B	5/30/14	CJG	5/30/14 10:06	CJG	A
Isopropylbenzene	81.3		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 02:03	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 02:03	CJG	A
Naphthalene	171	1	ug/L	2.0	SW846 8260B	5/29/14	CJG	5/29/14 02:03	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 02:03	CJG	A
Total Xylenes	392		ug/L	30.0	SW846 8260B	5/30/14	CJG	5/30/14 10:06	CJG	A
1,2,4-Trimethylbenzene	602		ug/L	10.0	SW846 8260B	5/30/14	CJG	5/30/14 10:06	CJG	A
1,3,5-Trimethylbenzene	95.1		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 02:03	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	88.6		%	62 - 133	SW846 8260B	5/30/14	CJG	5/30/14 10:06	CJG	A
[redacted]Dichloroethane-d4 (S)	120		%	62 - 133	SW846 8260B	5/29/14	CJG	5/29/14 02:03	CJG	A
4-Bromofluorobenzene (S)	101		%	79 - 114	SW846 8260B	5/29/14	CJG	5/29/14 02:03	CJG	A
4-Bromofluorobenzene (S)	92.7		%	79 - 114	SW846 8260B	5/30/14	CJG	5/30/14 10:06	CJG	A
Dibromofluoromethane (S)	89.6		%	78 - 116	SW846 8260B	5/29/14	CJG	5/29/14 02:03	CJG	A
Dibromofluoromethane (S)	83.1		%	78 - 116	SW846 8260B	5/30/14	CJG	5/30/14 10:06	CJG	A
Toluene-d8 (S)	109		%	76 - 127	SW846 8260B	5/29/14	CJG	5/29/14 02:03	CJG	A
Toluene-d8 (S)	105		%	76 - 127	SW846 8260B	5/30/14	CJG	5/30/14 10:06	CJG	A

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ANALYTICAL RESULTS

Workorder: 2008769 Unleaded Gas Testing

Lab ID: **2008769005** Date Collected: 5/23/2014 00:00 Matrix: Ground Water
Sample ID: **MW-5** Date Received: 5/23/2014 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	200		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 02:56	CJG	A
Ethylbenzene	54.1		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 02:56	CJG	A
Isopropylbenzene	32.0		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 02:56	CJG	A
Methyl t-Butyl Ether	36.1		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 02:56	CJG	A
Naphthalene	47.2		ug/L	2.0	SW846 8260B	5/30/14	CJG	5/30/14 02:56	CJG	A
Toluene	37.4		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 02:56	CJG	A
Total Xylenes	108		ug/L	3.0	SW846 8260B	5/30/14	CJG	5/30/14 02:56	CJG	A
1,2,4-Trimethylbenzene	15.5		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 02:56	CJG	A
1,3,5-Trimethylbenzene	7.8		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 02:56	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
[redacted] Dichloroethane-d4 (S)	95		%	62 - 133	SW846 8260B	5/30/14	CJG	5/30/14 02:56	CJG	A
[redacted]mofluorobenzene (S)	90.7		%	79 - 114	SW846 8260B	5/30/14	CJG	5/30/14 02:56	CJG	A
Dibromofluoromethane (S)	79.6		%	78 - 116	SW846 8260B	5/30/14	CJG	5/30/14 02:56	CJG	A
Toluene-d8 (S)	97.2		%	76 - 127	SW846 8260B	5/30/14	CJG	5/30/14 02:56	CJG	A

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10/21/2014 1:19:35 PM

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ANALYTICAL RESULTS

Workorder: 2008769 Unleaded Gas Testing

Lab ID: **2008769006** Date Collected: 5/23/2014 00:00 Matrix: Ground Water
Sample ID: **MW-6** Date Received: 5/23/2014 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	51.9		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 03:13	CJG	A
Ethylbenzene	7.8		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 03:13	CJG	A
Isopropylbenzene	16.7		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 03:13	CJG	A
Methyl t-Butyl Ether	33.8		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 03:13	CJG	A
Naphthalene	15.0		ug/L	2.0	SW846 8260B	5/30/14	CJG	5/30/14 03:13	CJG	A
Toluene	10.2		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 03:13	CJG	A
Total Xylenes	24.8		ug/L	3.0	SW846 8260B	5/30/14	CJG	5/30/14 03:13	CJG	A
1,2,4-Trimethylbenzene	7.8		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 03:13	CJG	A
1,3,5-Trimethylbenzene	2.5		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 03:13	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
[redacted]Dichloroethane-d4 (S)	90		%	62 - 133	SW846 8260B	5/30/14	CJG	5/30/14 03:13	CJG	A
[redacted]mofluorobenzene (S)	94.3		%	79 - 114	SW846 8260B	5/30/14	CJG	5/30/14 03:13	CJG	A
Dibromofluoromethane (S)	81.1		%	78 - 116	SW846 8260B	5/30/14	CJG	5/30/14 03:13	CJG	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B	5/30/14	CJG	5/30/14 03:13	CJG	A

Vicki Forney
Mrs. Vicki A. Forney
Project Coordinator

10/21/2014 1:19:36 PM

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ANALYTICAL RESULTS

Workorder: 2008769 Unleaded Gas Testing

Lab ID: **2008769007** Date Collected: 5/23/2014 00:00 Matrix: Ground Water

Sample ID: **MW-7** Date Received: 5/23/2014 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 03:09	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 03:09	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 03:09	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 03:09	CJG	A
Naphthalene	ND	1	ug/L	2.0	SW846 8260B	5/29/14	CJG	5/29/14 03:09	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 03:09	CJG	A
Total Xylenes	13.8		ug/L	3.0	SW846 8260B	5/29/14	CJG	5/29/14 03:09	CJG	A
1,2,4-Trimethylbenzene	5.7		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 03:09	CJG	A
1,3,5-Trimethylbenzene	3.1		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 03:09	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
[redacted]-Dichloroethane-d4 (S)	110		%	62 - 133	SW846 8260B	5/29/14	CJG	5/29/14 03:09	CJG	A
[redacted]mofluorobenzene (S)	107		%	79 - 114	SW846 8260B	5/29/14	CJG	5/29/14 03:09	CJG	A
Dibromofluoromethane (S)	94		%	78 - 116	SW846 8260B	5/29/14	CJG	5/29/14 03:09	CJG	A
Toluene-d8 (S)	109		%	76 - 127	SW846 8260B	5/29/14	CJG	5/29/14 03:09	CJG	A

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2008769 Unleaded Gas Testing

Lab ID: **2008769008** Date Collected: 5/23/2014 00:00 Matrix: Ground Water

Sample ID: **MW-8** Date Received: 5/23/2014 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 03:31	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 03:31	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 03:31	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 03:31	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	5/29/14	CJG	5/29/14 03:31	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 03:31	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	5/29/14	CJG	5/29/14 03:31	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 03:31	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 03:31	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	109		%	62 - 133	SW846 8260B	5/29/14	CJG	5/29/14 03:31	CJG	A
[redacted]mofluorobenzene (S)	106		%	79 - 114	SW846 8260B	5/29/14	CJG	5/29/14 03:31	CJG	A
Dibromofluoromethane (S)	93.8		%	78 - 116	SW846 8260B	5/29/14	CJG	5/29/14 03:31	CJG	A
Toluene-d8 (S)	107		%	76 - 127	SW846 8260B	5/29/14	CJG	5/29/14 03:31	CJG	A

Vicki Forney

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ANALYTICAL RESULTS

Workorder: 2008769 Unleaded Gas Testing

Lab ID: **2008769009** Date Collected: 5/23/2014 00:00 Matrix: Ground Water

Sample ID: **MW-9** Date Received: 5/23/2014 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	38.4		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 03:30	CJG	A
Ethylbenzene	16.3		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 03:30	CJG	A
Isopropylbenzene	25.6		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 03:30	CJG	A
Methyl t-Butyl Ether	28.6		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 03:30	CJG	A
Naphthalene	14.4		ug/L	2.0	SW846 8260B	5/30/14	CJG	5/30/14 03:30	CJG	A
Toluene	10.2		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 03:30	CJG	A
Total Xylenes	9.2		ug/L	3.0	SW846 8260B	5/30/14	CJG	5/30/14 03:30	CJG	A
1,2,4-Trimethylbenzene	7.3		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 03:30	CJG	A
1,3,5-Trimethylbenzene	4.3		ug/L	1.0	SW846 8260B	5/30/14	CJG	5/30/14 03:30	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	89.9		%	62 - 133	SW846 8260B	5/30/14	CJG	5/30/14 03:30	CJG	A
[illegible]mofluorobenzene (S)	94.2		%	79 - 114	SW846 8260B	5/30/14	CJG	5/30/14 03:30	CJG	A
Dibromofluoromethane (S)	80.3		%	78 - 116	SW846 8260B	5/30/14	CJG	5/30/14 03:30	CJG	A
Toluene-d8 (S)	107		%	76 - 127	SW846 8260B	5/30/14	CJG	5/30/14 03:30	CJG	A

Vicki Forney

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ANALYTICAL RESULTS

Workorder: 2008769 Unleaded Gas Testing

Lab ID: **2008769010** Date Collected: 5/23/2014 00:00 Matrix: Ground Water

Sample ID: **MW-10** Date Received: 5/23/2014 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 04:15	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 04:15	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 04:15	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 04:15	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	5/29/14	CJG	5/29/14 04:15	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 04:15	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	5/29/14	CJG	5/29/14 04:15	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 04:15	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	5/29/14	CJG	5/29/14 04:15	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	109		%	62 - 133	SW846 8260B	5/29/14	CJG	5/29/14 04:15	CJG	A
[illegible]mofluorobenzene (S)	105		%	79 - 114	SW846 8260B	5/29/14	CJG	5/29/14 04:15	CJG	A
Dibromofluoromethane (S)	94.6		%	78 - 116	SW846 8260B	5/29/14	CJG	5/29/14 04:15	CJG	A
Toluene-d8 (S)	107		%	76 - 127	SW846 8260B	5/29/14	CJG	5/29/14 04:15	CJG	A

Vicki Forney

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PARAMETER QUALIFIERS

#	Lab ID	Sample ID	Analytical Method	Analyte
1	**2008769004**	MW-4	SW846 8260B	Naphthalene

The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 151 and the control limits were 56 to 134.

#	Lab ID	Sample ID	Analytical Method	Analyte
1	**2008769007**	MW-7	SW846 8260B	Naphthalene

The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 151 and the control limits were 56 to 134.

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CHAIN OF CUSTODY / REQUEST FOR ANALYSIS

Page ___ of ___
Courier:
Tracking #:

* 2 0 0 8 7 6 9 4

ALS SUBCONTRACTS MUST BE COMPLETED WITH PROJECT SPECIFIC SAMPLER INSTRUCTIONS CLIENT BOOK

Co. Name: Country Environmental Assoc.
Contact (Report to): John Van Abgaven Phone:
Address: PO Box 224
St. Peters, PA 19470

Bill to (if different than Report to): Same PO#:

Project Name/#:
ALS Quote #:

TAT: Normal-Standard TAT is 10-12 business days. Date Required:
Rush-Subject to ALS approval and surcharges. Approved By:

Email? Y
Fax? Y No:

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis
1	MW-1		5/23/14		G	GW	X
2	MW-2						X
3	MW-3						X
4	MW-4						X
5	MW-5						X
BLK 6	MW-6						X
7	MW-7						X
8	MW-8						X
DUP 9	MW-9						X
10							

ANALYSES/METHOD REQUESTED

Purgeable Gasoline

BTEX 5270-M 1545

ENTERED AT STAFFORD 0137

Container Type
Container Size
Preservative

Temperature Received:
Received by Lab: Y or N
Preserved by:
Cooler Temp: 12°C
Therm. ID: IR99
No. of Coolers: 1
Notes:

Circle appropriate Y or N.
Container in good condition?
COC/Labels complete/accurate?
Headspace/Volatiles?
Correct preservation?
Received on Ice?
Custody seals Present?
Correct sample volume?
Correct containers?

SAMPLED BY (Please Print): John Van Abgaven

Project Comments:

	Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1		5/23/14	1600	2 Beverly Matyunenko/ALS	5/23/14	1600
3	Beverly Matyunenko/ALS	5/23/14	1750	4 VM	5/23	1750
5	VM	5/23	1950	6 VM	5/23	1950
7				8		
9				10		

Data Deliverables: Standard; CLP-like; NJ-Reduced; NJ-Full; Type, Format type:
EDDs Required?
SDWA Format? yes
State Samples Collected in? MD, NJ, WV, PA
Other:
CCC Criteria Required?

ALS FIELD SERVICES: Pickup; Labor; Composite Sampling; Rental Equipment; Other:

*G=Grab; C=Composite **Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OW/OR; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY ***Container Type: AG=Amber Glass; CG=Clear Glass; PL=Plastic. Container Size: 35ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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SAMPLE SUMMARY

Workorder: 2022057 BLAIR

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2022057001	MW-1	Ground Water	8/6/2014 12:00	8/6/2014 21:40	Mr. John VanWagenen
2022057002	MW-2	Ground Water	8/6/2014 12:00	8/6/2014 21:40	Mr. John VanWagenen
2022057003	MW-3	Ground Water	8/6/2014 12:00	8/6/2014 21:40	Mr. John VanWagenen
2022057004	MW-4	Ground Water	8/6/2014 12:00	8/6/2014 21:40	Mr. John VanWagenen
2022057005	MW-7	Ground Water	8/6/2014 12:00	8/6/2014 21:40	Mr. John VanWagenen
2022057006	MW-8	Ground Water	8/6/2014 12:00	8/6/2014 21:40	Mr. John VanWagenen
2022057007	MW-9	Ground Water	8/6/2014 12:00	8/6/2014 21:40	Mr. John VanWagenen
2022057008	MW-10	Ground Water	8/6/2014 12:00	8/6/2014 21:40	Mr. John VanWagenen
2022057009	MW-11	Ground Water	8/6/2014 12:00	8/6/2014 21:40	Mr. John VanWagenen

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PROJECT SUMMARY

Workorder: 2022057 BLAIR

Sample Comments

Lab ID: 2022057003 **Sample ID:** MW-3 **Sample Type:** SAMPLE

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results.

Lab ID: 2022057004 **Sample ID:** MW-4 **Sample Type:** SAMPLE

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

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ANALYTICAL RESULTS

Workorder: 2022057 BLAIR

Lab ID: **2022057001** Date Collected: 8/6/2014 12:00 Matrix: Ground Water
Sample ID: **MW-1** Date Received: 8/6/2014 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 03:55	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 03:55	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 03:55	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 03:55	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	8/8/14	JPA	8/8/14 03:55	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 03:55	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	8/8/14	JPA	8/8/14 03:55	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 03:55	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 03:55	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	111		%	62 - 133	SW846 8260B	8/8/14	JPA	8/8/14 03:55	JPA	A
[illegible]romofluorobenzene (S)	86.2		%	79 - 114	SW846 8260B	8/8/14	JPA	8/8/14 03:55	JPA	A
[illegible]romofluoromethane (S)	108		%	78 - 116	SW846 8260B	8/8/14	JPA	8/8/14 03:55	JPA	A
Toluene-d8 (S)	89.9		%	76 - 127	SW846 8260B	8/8/14	JPA	8/8/14 03:55	JPA	A

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ANALYTICAL RESULTS

Workorder: 2022057 BLAIR

Lab ID: **2022057002** Date Collected: 8/6/2014 12:00 Matrix: Ground Water
Sample ID: **MW-2** Date Received: 8/6/2014 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:24	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:24	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:24	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:24	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	8/9/14	JPA	8/9/14 04:24	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:24	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	8/9/14	JPA	8/9/14 04:24	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:24	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:24	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	114		%	62 - 133	SW846 8260B	8/9/14	JPA	8/9/14 04:24	JPA	A
[redacted]romofluorobenzene (S)	87.9		%	79 - 114	SW846 8260B	8/9/14	JPA	8/9/14 04:24	JPA	A
Dibromofluoromethane (S)	111		%	78 - 116	SW846 8260B	8/9/14	JPA	8/9/14 04:24	JPA	A
Toluene-d8 (S)	93.4		%	76 - 127	SW846 8260B	8/9/14	JPA	8/9/14 04:24	JPA	A

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10/21/2014 1:19:48 PM

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2022057 BLAIR

Lab ID: **2022057003** Date Collected: 8/6/2014 12:00 Matrix: Ground Water
Sample ID: **MW-3** Date Received: 8/6/2014 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:41	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:41	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:41	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:41	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	8/9/14	JPA	8/9/14 04:41	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:41	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	8/9/14	JPA	8/9/14 04:41	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:41	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:41	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	116		%	62 - 133	SW846 8260B	8/9/14	JPA	8/9/14 04:41	JPA	A
[illegible]omofluorobenzene (S)	88.3		%	79 - 114	SW846 8260B	8/9/14	JPA	8/9/14 04:41	JPA	A
Dibromofluoromethane (S)	114		%	78 - 116	SW846 8260B	8/9/14	JPA	8/9/14 04:41	JPA	A
Toluene-d8 (S)	93		%	76 - 127	SW846 8260B	8/9/14	JPA	8/9/14 04:41	JPA	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2022057 BLAIR

Lab ID: **2022057004** Date Collected: 8/6/2014 12:00 Matrix: Ground Water
Sample ID: **MW-4** Date Received: 8/6/2014 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	5.0	SW846 8260B	8/8/14	JPA	8/8/14 06:53	JPA	A
Ethylbenzene	142		ug/L	5.0	SW846 8260B	8/8/14	JPA	8/8/14 06:53	JPA	A
Isopropylbenzene	57.4		ug/L	5.0	SW846 8260B	8/8/14	JPA	8/8/14 06:53	JPA	A
Methyl t-Butyl Ether	ND		ug/L	5.0	SW846 8260B	8/8/14	JPA	8/8/14 06:53	JPA	A
Naphthalene	76.4		ug/L	10.0	SW846 8260B	8/8/14	JPA	8/8/14 06:53	JPA	A
Toluene	ND		ug/L	5.0	SW846 8260B	8/8/14	JPA	8/8/14 06:53	JPA	A
Total Xylenes	286		ug/L	15.0	SW846 8260B	8/8/14	JPA	8/8/14 06:53	JPA	A
1,2,4-Trimethylbenzene	267		ug/L	5.0	SW846 8260B	8/8/14	JPA	8/8/14 06:53	JPA	A
1,3,5-Trimethylbenzene	32.3		ug/L	5.0	SW846 8260B	8/8/14	JPA	8/8/14 06:53	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	105		%	62 - 133	SW846 8260B	8/8/14	JPA	8/8/14 06:53	JPA	A
[redacted]omofluorobenzene (S)	80.2		%	79 - 114	SW846 8260B	8/8/14	JPA	8/8/14 06:53	JPA	A
Dibromofluoromethane (S)	101		%	78 - 116	SW846 8260B	8/8/14	JPA	8/8/14 06:53	JPA	A
Toluene-d8 (S)	94.9		%	76 - 127	SW846 8260B	8/8/14	JPA	8/8/14 06:53	JPA	A

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10/21/2014 1:19:51 PM

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ANALYTICAL RESULTS

Workorder: 2022057 BLAIR

Lab ID: **2022057005** Date Collected: 8/6/2014 12:00 Matrix: Ground Water
Sample ID: **MW-7** Date Received: 8/6/2014 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 07:11	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 07:11	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 07:11	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 07:11	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	8/8/14	JPA	8/8/14 07:11	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 07:11	JPA	A
Total Xylenes	3.8		ug/L	3.0	SW846 8260B	8/8/14	JPA	8/8/14 07:11	JPA	A
1,2,4-Trimethylbenzene	1.8		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 07:11	JPA	A
1,3,5-Trimethylbenzene	1.2		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 07:11	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	106		%	62 - 133	SW846 8260B	8/8/14	JPA	8/8/14 07:11	JPA	A
romofluorobenzene (S)	86.8		%	79 - 114	SW846 8260B	8/8/14	JPA	8/8/14 07:11	JPA	A
Dibromofluoromethane (S)	103		%	78 - 116	SW846 8260B	8/8/14	JPA	8/8/14 07:11	JPA	A
Toluene-d8 (S)	90.4		%	76 - 127	SW846 8260B	8/8/14	JPA	8/8/14 07:11	JPA	A

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ANALYTICAL RESULTS

Workorder: 2022057 BLAIR

Lab ID: **2022057006** Date Collected: 8/6/2014 12:00 Matrix: Ground Water
Sample ID: **MW-8** Date Received: 8/6/2014 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	42.3		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 07:28	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 07:28	JPA	A
Isopropylbenzene	8.9		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 07:28	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 07:28	JPA	A
Naphthalene	9.9		ug/L	2.0	SW846 8260B	8/8/14	JPA	8/8/14 07:28	JPA	A
Toluene	11.6		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 07:28	JPA	A
Total Xylenes	8.9		ug/L	3.0	SW846 8260B	8/8/14	JPA	8/8/14 07:28	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 07:28	JPA	A
1,3,5-Trimethylbenzene	1.0		ug/L	1.0	SW846 8260B	8/8/14	JPA	8/8/14 07:28	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	103		%	62 - 133	SW846 8260B	8/8/14	JPA	8/8/14 07:28	JPA	A
romofluorobenzene (S)	86.2		%	79 - 114	SW846 8260B	8/8/14	JPA	8/8/14 07:28	JPA	A
Dibromofluoromethane (S)	92.8		%	78 - 116	SW846 8260B	8/8/14	JPA	8/8/14 07:28	JPA	A
Toluene-d8 (S)	86.3		%	76 - 127	SW846 8260B	8/8/14	JPA	8/8/14 07:28	JPA	A

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10/21/2014 1:19:53 PM

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ANALYTICAL RESULTS

Workorder: 2022057 BLAIR

Lab ID: **2022057007** Date Collected: 8/6/2014 12:00 Matrix: Ground Water
Sample ID: **MW-9** Date Received: 8/6/2014 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	2.7		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:06	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:06	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:06	JPA	A
Methyl t-Butyl Ether	4.3		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:06	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	8/9/14	JPA	8/9/14 04:06	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:06	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	8/9/14	JPA	8/9/14 04:06	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:06	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 04:06	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	110		%	62 - 133	SW846 8260B	8/9/14	JPA	8/9/14 04:06	JPA	A
[redacted]romofluorobenzene (S)	86.3		%	79 - 114	SW846 8260B	8/9/14	JPA	8/9/14 04:06	JPA	A
Dibromofluoromethane (S)	106		%	78 - 116	SW846 8260B	8/9/14	JPA	8/9/14 04:06	JPA	A
Toluene-d8 (S)	95.8		%	76 - 127	SW846 8260B	8/9/14	JPA	8/9/14 04:06	JPA	A

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10/21/2014 1:19:55 PM

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ANALYTICAL RESULTS

Workorder: 2022057 BLAIR

Lab ID: **2022057008** Date Collected: 8/6/2014 12:00 Matrix: Ground Water
Sample ID: **MW-10** Date Received: 8/6/2014 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 06:24	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 06:24	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 06:24	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 06:24	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	8/9/14	JPA	8/9/14 06:24	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 06:24	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	8/9/14	JPA	8/9/14 06:24	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 06:24	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 06:24	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	115		%	62 - 133	SW846 8260B	8/9/14	JPA	8/9/14 06:24	JPA	A
[illegible]omofluorobenzene (S)	82.2		%	79 - 114	SW846 8260B	8/9/14	JPA	8/9/14 06:24	JPA	A
Dibromofluoromethane (S)	113		%	78 - 116	SW846 8260B	8/9/14	JPA	8/9/14 06:24	JPA	A
Toluene-d8 (S)	89		%	76 - 127	SW846 8260B	8/9/14	JPA	8/9/14 06:24	JPA	A

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10/21/2014 1:19:56 PM

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ANALYTICAL RESULTS

Workorder: 2022057 BLAIR

Lab ID: **2022057009** Date Collected: 8/6/2014 12:00 Matrix: Ground Water
Sample ID: **MW-11** Date Received: 8/6/2014 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 06:42	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 06:42	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 06:42	JPA	A
Methyl t-Butyl Ether	14.0		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 06:42	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	8/9/14	JPA	8/9/14 06:42	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 06:42	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	8/9/14	JPA	8/9/14 06:42	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 06:42	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	8/9/14	JPA	8/9/14 06:42	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	115		%	62 - 133	SW846 8260B	8/9/14	JPA	8/9/14 06:42	JPA	A
Bromofluorobenzene (S)	85.8		%	79 - 114	SW846 8260B	8/9/14	JPA	8/9/14 06:42	JPA	A
Dibromofluoromethane (S)	111		%	78 - 116	SW846 8260B	8/9/14	JPA	8/9/14 06:42	JPA	A
Toluene-d8 (S)	89.7		%	76 - 127	SW846 8260B	8/9/14	JPA	8/9/14 06:42	JPA	A

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Project Coordinator

10/21/2014 1:19:57 PM

ALS Environmental

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P. 717-944-5541
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CHAIN OF CUSTODY / REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page ___ of ___

Courier: ___

Tracking #: ___

* 2022057 *

Co. Name: Country Env. Assoc.

Contact (Report to): John Van Wagoner Phone: 610-469-6540

Address: P O Box 224
St. Peters, PA 19470

Bill to (if different than Report to): same PO#:

Project Name/#: BLAIR ALS Quote #:

TAT: ☐ Normal-Standard TAT is 10-12 business days. Date Required:
☐ Rush-Subject to ALS approval and surcharges. Approved By:

Email? ☐ -Y

Fax? ☐ -Y No.:

	Sample Description/Location (as it will appear on the report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis	Correct containers?	Correct sample volume?	Correct preservative?	Headspace acceptable?	Circle appropriate Y or N.
1	MW-1		8/6/14	1040	G	GW	X					
2	MW-2						X					
3	MW-3						X					
4	MW-4						X					
5	MW-7						X					
6	MW-8						X					
7	MW-9						X					
8	~~MW-10~~ MW-11						X					

PADEP unfiltered and filtered

Custody seals Present? | (If present) Seals Intact? | Received on Ice? | COC Labels complete/accurate? | Container in good condition?

SAMPLED BY (Please Print): John Van Wagoner

Project Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	8/6/14	1517	Beverly Mahaney/ALS	8/6	1517
3 Beverly Mahaney/ALS	8-6-14		4	8/6	2000
5	8/6	2140	6	8/6	2140
7			8		
9			10		

Date Deliverables Required: ☐ Standard ☐ 2P-like ☐ NJ-Reduced ☐ NJ-Full ☐ other

EDDs Required? ☐ If yes, format type:

DOD Criteria Required?

Sample Receipt Temp Blank? yes ☐ yes ☐ yes ☐ yes ☐

State Samples Collected in? MD ☐ NJ ☐ NY ☐ PA ☐

Other

ALS FIELD SERVICES
☐ Pickup
☐ Labor
☐ Composite Sampling
☐ Rental Equipment
☐ Other:

Received by: BBM
Cooler Temp. 4°C
Therm. ID: TH294
No. of Coolers: 1
Notes:

8/9/14 1440

* G=Grab; C=Composite

**Matrix: AI=Air, DW=Drinking Water; GW=Groundwater, OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

***Container Type: AG=Amber Glass; CG=Clear Glass, PL=Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2026277 BLAIR

Lab ID: **2026277001** Date Collected: 8/28/2014 09:00 Matrix: Ground Water
Sample ID: **MW-11** Date Received: 8/28/2014 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B	9/4/14	CJG	9/4/14 01:29	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	9/4/14	CJG	9/4/14 01:29	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	9/4/14	CJG	9/4/14 01:29	CJG	A
Methyl t-Butyl Ether	9.3		ug/L	1.0	SW846 8260B	9/4/14	CJG	9/4/14 01:29	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	9/4/14	CJG	9/4/14 01:29	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	9/4/14	CJG	9/4/14 01:29	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	9/4/14	CJG	9/4/14 01:29	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	9/4/14	CJG	9/4/14 01:29	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	9/4/14	CJG	9/4/14 01:29	CJG	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	100		%	62 - 133	SW846 8260B	9/4/14	CJG	9/4/14 01:29	CJG	A
[illegible]omofluorobenzene (S)	104		%	79 - 114	SW846 8260B	9/4/14	CJG	9/4/14 01:29	CJG	A
Dibromofluoromethane (S)	83.1		%	78 - 116	SW846 8260B	9/4/14	CJG	9/4/14 01:29	CJG	A
Toluene-d8 (S)	97.1		%	76 - 127	SW846 8260B	9/4/14	CJG	9/4/14 01:29	CJG	A

Ms. Amy K Borden
Project Coordinator

10/21/2014 1:20:00 PM

ALS Environmental

34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F.717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page ___ of ___

Courier:

Tracking #:

COC#

Co. Name: County Env. Assoc.

Contact (Report to): John Cavalcanti Phone: 610-469-6570

Address: PO Box 254 Sto. Pottsville, PA 19470

Bill to (If different than Report to): SAWC PO#:

Project Name/#: BLAIR ALS Quote #:

TAT: Normal-Standard TAT is 10-12 business days. Rush-Subject to ALS approval and surcharges. Date Required: Approved By:

Email? Y

Fax? Y No

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	***Container Type	***Container Size	*** Preservative	ANALYSES/METHOD REQUESTED	Enter Number of Containers Per Analysis
1 MW-11		8/28/14	1500	G	GW	X			PART Pesticides	
2										
3										
4										
5										
6										
7										
8										

Receipt Information (completed by Sample Receiving)

Performed by: INITIAL HERE

Cooler Temp:

Therm. ID:

No. of Coolers:

Notes:

Circle appropriate Y or N.	Container in good condition?	COC/Labels complete/accurate?	Received on ice?	(if present) Seals intact?	Custody seals Present?
Correct containers?	N / Y				
Correct sample volume?	N / Y				
Correct preservation?	N / Y				
Headspace/Volatiles?	N / Y	N	N	N	N
		Y	Y	Y	Y

SAMPLED BY (Please Print): DM Vanvoyen

Project Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	8-28-14	1550	2 Beverly Maynard/ALS	8-28-14	1550
3			4		
5			6		
7			8		
9			10		

Data Deliverables: Standard; CLP-like; NJ-Reduced; NJ-Full; EDDs Required? If yes, format type:

SDWA Forms? yes yes yes yes

State Samples Collected In? MD NJ NY PA Other

⇨ Enter PWSID No.

DOD Criteria Required?

ALS FIELD SERVICES: Pickup; Labor; Composite Sampling; Rental Equipment; Other:

* G=Grab; C=Composite

**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 01-2013

10/21/2014 1:20:01 PM

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

SAMPLE SUMMARY

Workorder: 1054074 BLAIR Discard Date: 11/14/2013

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1054074001	French	Drinking Water	10/16/13 16:30	10/17/13 21:30	John VanWagenen
1054074002	Depository	Drinking Water	10/16/13 16:30	10/17/13 21:30	John VanWagenen
1054074003	Barner	Drinking Water	10/16/13 16:30	10/17/13 21:30	John VanWagenen

Workorder Comments:

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 1054074 BLAIR

Lab ID: **1054074001** Date Collected: 10/16/2013 16:30 Matrix: Drinking Water

Sample ID: **French** Date Received: 10/17/2013 21:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	0.50	EPA 524.2			10/29/13 17:25	TMP	A
Ethylbenzene	ND		ug/L	0.50	EPA 524.2			10/29/13 17:25	TMP	A
Isopropylbenzene	ND		ug/L	0.50	EPA 524.2			10/29/13 17:25	TMP	A
Methyl t-Butyl Ether	ND		ug/L	0.50	EPA 524.2			10/29/13 17:25	TMP	A
Naphthalene	ND		ug/L	0.50	EPA 524.2			10/29/13 17:25	TMP	A
Toluene	ND		ug/L	0.50	EPA 524.2			10/29/13 17:25	TMP	A
Total Xylenes	ND		ug/L	1.5	EPA 524.2			10/29/13 17:25	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	0.50	EPA 524.2			10/29/13 17:25	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	0.50	EPA 524.2			10/29/13 17:25	TMP	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichlorobenzene-d4 (S)	71.9		%	70-130	EPA 524.2			10/29/13 17:25	TMP	A
4-Bromofluorobenzene (S)	79.7		%	70-130	EPA 524.2			10/29/13 17:25	TMP	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1054074 BLAIR

Lab ID: **1054074002** Date Collected: 10/16/2013 16:30 Matrix: Drinking Water

Sample ID: **Depository** Date Received: 10/17/2013 21:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	0.50	EPA 524.2			10/29/13 17:51	TMP	A
Ethylbenzene	ND		ug/L	0.50	EPA 524.2			10/29/13 17:51	TMP	A
Isopropylbenzene	ND		ug/L	0.50	EPA 524.2			10/29/13 17:51	TMP	A
Methyl t-Butyl Ether	ND		ug/L	0.50	EPA 524.2			10/29/13 17:51	TMP	A
Naphthalene	ND		ug/L	0.50	EPA 524.2			10/29/13 17:51	TMP	A
Toluene	ND		ug/L	0.50	EPA 524.2			10/29/13 17:51	TMP	A
Total Xylenes	ND		ug/L	1.5	EPA 524.2			10/29/13 17:51	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	0.50	EPA 524.2			10/29/13 17:51	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	0.50	EPA 524.2			10/29/13 17:51	TMP	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichlorobenzene-d4 (S)	70.4		%	70-130	EPA 524.2			10/29/13 17:51	TMP	A
4-Bromofluorobenzene (S)	79.5		%	70-130	EPA 524.2			10/29/13 17:51	TMP	A

Sample Comments:

Denise Brooks
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1054074 BLAIR

Lab ID: **1054074003** Date Collected: 10/16/2013 16:30 Matrix: Drinking Water

Sample ID: **Barner** Date Received: 10/17/2013 21:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	0.50	EPA 524.2			10/29/13 18:16	TMP	A
Ethylbenzene	ND		ug/L	0.50	EPA 524.2			10/29/13 18:16	TMP	A
Isopropylbenzene	ND		ug/L	0.50	EPA 524.2			10/29/13 18:16	TMP	A
Methyl t-Butyl Ether	ND		ug/L	0.50	EPA 524.2			10/29/13 18:16	TMP	A
Naphthalene	ND		ug/L	0.50	EPA 524.2			10/29/13 18:16	TMP	A
Toluene	ND		ug/L	0.50	EPA 524.2			10/29/13 18:16	TMP	A
Total Xylenes	ND		ug/L	1.5	EPA 524.2			10/29/13 18:16	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	0.50	EPA 524.2			10/29/13 18:16	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	0.50	EPA 524.2			10/29/13 18:16	TMP	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichlorobenzene-d4 (S)	72.1		%	70-130	EPA 524.2			10/29/13 18:16	TMP	A
4-Bromofluorobenzene (S)	88.9		%	70-130	EPA 524.2			10/29/13 18:16	TMP	A

Sample Comments:

Denise Brooks
Project Coordinator

10/21/2014 1:20:05 PM

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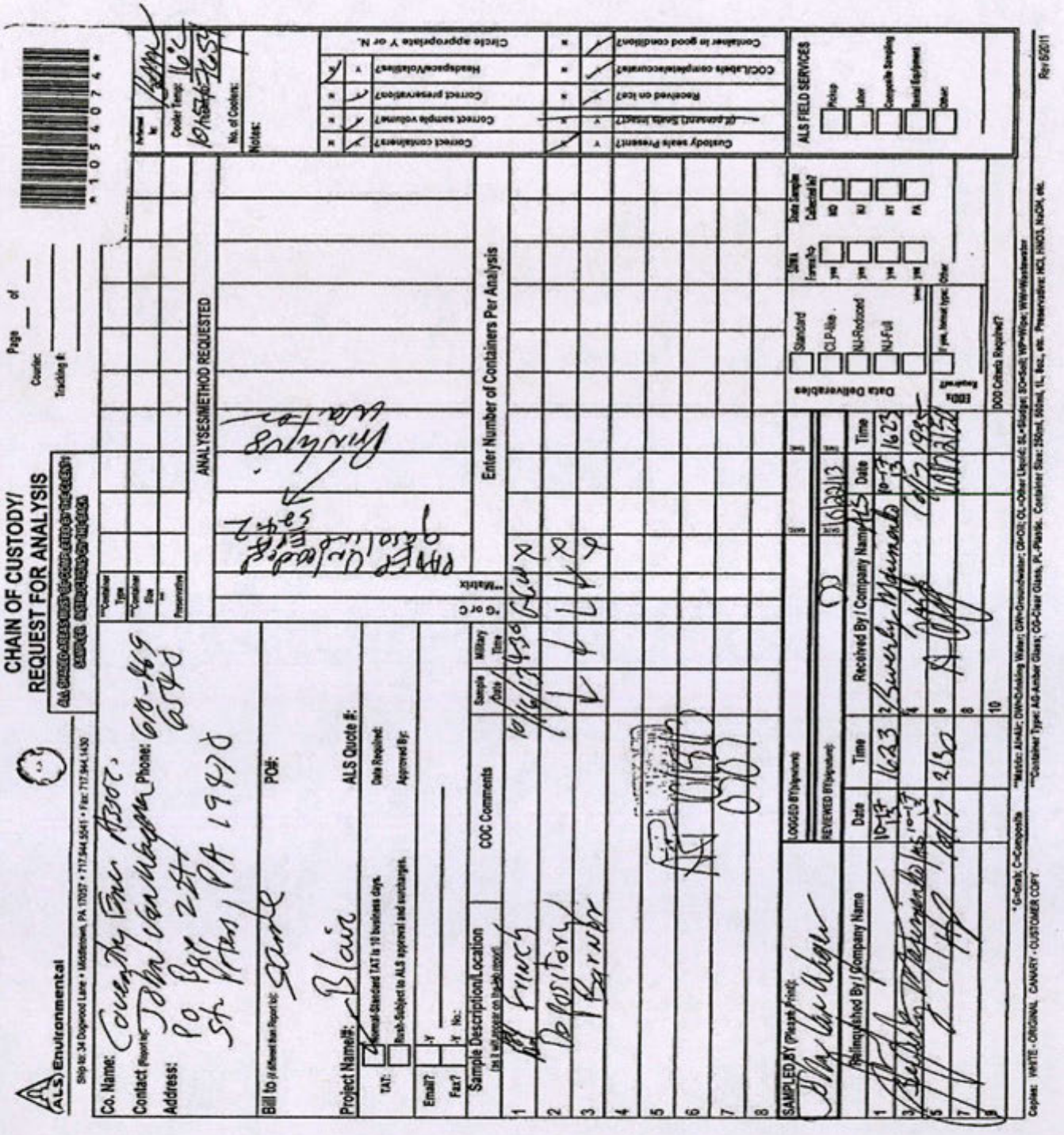

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